

**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:** Costa View Farms

Physical address of dairy:

16800 Road 15 Number and Street	Madera City	Madera County	93637 Zip Code
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Street and nearest cross street (if no address): \_\_\_\_\_

Date facility was originally placed in operation: 10/01/1995Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0023-0230-0005-0000

**B. OPERATORS**

Pietrowski, Larry

Operator name: <u>Pietrowski, Larry</u>	Telephone no.: <u>(559) 706-2051</u>		
16970 Road 15 Mailing Address Number and Street	Madera City	CA State	96367 Zip Code

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

Costa View Dairy

Legal owner name: <u>Costa View Dairy</u>	Telephone no.: <u>(559) 706-2051</u>		
16970 Road 15 Mailing Address Number and Street	Madera City	CA State	93637 Zip Code

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Pietrowski, Larry

Legal owner name:	Pietrowski, Larry	Telephone no.:	(559) 706-2051
16970 Road 15 Mailing Address Number and Street	Madera City	Landline CA State	Cellular 96367 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	830	1,550	1,930	250	0
Number under roof	6,025	0	0	0	0	0
Maximum number	6,200	850	1,600	2,000	500	0
Average number	6,025	830	1,550	1,930	250	0
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: 201,027.46 tons per reporting period

Total nitrogen from manure: 2,515,167.10 lbs per reporting period

After ammonia losses (30% loss applied): 1,760,616.97 lbs per reporting period

Total phosphorus from manure: 418,873.33 lbs per reporting period

Total potassium from manure: 1,153,843.09 lbs per reporting period

Total salt from manure: 3,027,729.75 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 136,920,000 gallons

Total nitrogen generated: 557,208.20 lbs

Total phosphorus generated: 60,531.48 lbs

Total potassium generated: 845,787.45 lbs

Total salt generated: 3,960,712.25 lbs

$$\begin{array}{r}
 136,920,000 \text{ gallons applied} \\
 + \quad \quad \quad 0 \text{ gallons exported} \\
 - \quad \quad \quad 0 \text{ gallons imported} \\
 = \quad \quad \quad 136,920,000 \text{ gallons generated}
 \end{array}$$

**D. FRESH WATER SOURCES**

Source Description	Type
11-5 Reservoir	Surface water
12-10 Reservoir	Ground water
12-2 Reservoir	Ground water
15-1 Reservoir	Ground water
16-2 Reservoir	Surface water

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Source Description	Type
6W Reservoir	Ground water
IW 11 (W)	Ground water
IW 11-5	Ground water
IW 12-10	Ground water
IW 12-2	Ground water
IW 12-3	Ground water
IW 12-4	Ground water
IW 12-9	Ground water
IW 12A (W)	Ground water
IW 12B (W)	Ground water
IW 13-10	Ground water
IW 13-11	Ground water
IW 13-12	Ground water
IW 13-2	Ground water
IW 13-4	Ground water
IW 13-8	Ground water
IW 14-10	Ground water
IW 14-2	Ground water
IW 14-3	Ground water
IW 14-4	Ground water
IW 14-5	Ground water
IW 14-7	Ground water
IW 15-1	Ground water
IW 15-3	Ground water
IW 15-5	Ground water
IW 15-6	Ground water
IW 16-1	Ground water
IW 16-2	Ground water
IW 16-4	Ground water
IW 16-5	Ground water
IW 16-6	Ground water
IW 1B-A (W)	Ground water
IW 1B-B (W)	Ground water
IW 2 (W)	Ground water
IW 3 (W)	Ground water
IW 4 (W)	Ground water
IW 5 (W)	Ground water
IW 7 (W)	Ground water

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Source Description	Type
IW 8A (W)	Ground water
IW 8B (W)	Ground water
IW 9 (W)	Ground water
MID CANAL	Surface water

**E. SUBSURFACE (TILE) DRAINAGE SOURCES**

No subsurface (tile) drainage sources entered.

**F. NUTRIENT IMPORTS**

Date	Material type / Description	Quantity	Reporting basis	Moist. (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	Scraped material <i>Chicken Manure</i>	2,850.00 ton	Dry-weight	40.5	24,600.00	8,300.00	27,300.00		0.00

No process wastewater nutrient imports entered.

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
05/24/2023	Solid commercial fertilizer <i>UN 32</i>	40.97 ton	As-is	0.1	32.000000	0.000000	0.000000	0.000000
07/25/2023	Solid commercial fertilizer <i>28-0-0</i>	24.91 ton	As-is	0.1	28.000000	0.000000	0.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	40,170.40	0.00	0.00	0.00
Dry manure	83,430.90	28,149.45	92,587.95	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total imports for all materials	123,601.30	28,149.45	92,587.95	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 (%)
12/09/2023	Separator solids	10,035.00 ton	Dry-weight	18.1		9,400.00	5,300.00	16,000.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	154,510.90	87,117.85	262,997.28	0.00
Process wastewater	0.00	0.00	0.00	0.00

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Total exports for all materials	154,510.90	87,117.85	262,997.28	0.00
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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
11-5	85	85	1	manure	X023-X250-X007-XXXX
11-6	51	51	2	manure	X023-X250-X006-XXXX X023-X250-X007-XXXX
13-10	120	120	2	manure	X023-X210-X001-XXXX
13-12	88	88	1	manure	X043-X043-X003-XXXX
13-2	92	92	2	manure	X023-X210-X001-XXXX
13-3	101	101	2	manure	X023-X260-X002-XXXX
13-4	91	91	2	manure	X043-X043-X003-XXXX
13-6	119	119	2	manure	X023-X210-X001-XXXX
13-8	90	90	2	manure	X043-X043-X003-XXXX
14-1	86	24	0	none	X023-X220-X001-XXXX
14-10	100	100	1	manure	X023-X270-X001-XXXX
14-11	64	64	1	manure	X043-X045-X006-XXXX
14-2	120	120	2	process wastewater	X023-X220-X001-XXXX
14-3	99	99	2	process wastewater	X023-X270-X001-XXXX
14-4	87	87	0	none	X023-X220-X001-XXXX
14-5	120	120	2	process wastewater	X023-X220-X001-XXXX
14-6	99	99	1	manure	X023-X270-X001-XXXX
14-7	67	67	1	manure	X043-X045-X006-XXXX
14-8	84	84	0	none	X023-X220-X001-XXXX
14-9	120	120	1	manure	X023-X220-X001-XXXX
15-1	43	43	2	process wastewater	X023-X230-X002-XXXX
15-3	95	95	2	process wastewater	X023-X230-X004-XXXX
15-4	125	125	2	process wastewater	X023-X230-X004-XXXX
15-5A	82	82	2	process wastewater	X023-X230-X004-XXXX
15-5B	84	84	2	process wastewater	X023-X230-X004-XXXX
15-6	102	102	1	manure	X023-X230-X004-XXXX
15-7	100	100	2	process wastewater	X023-X230-X004-XXXX
16-1	98	98	1	manure	X023-X240-X002-XXXX
16-2	93	93	1	manure	X023-X230-X004-XXXX
16-3	94	94	2	process wastewater	X023-X240-X002-XXXX
16-4	91	91	1	manure	X023-X230-X004-XXXX
16-5	105	105	1	manure	X023-X240-X002-XXXX
16-6	95	95	1	manure	X023-X230-X004-XXXX

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
CVW 10	44	44	2	manure	X022-X220-X008-XXXX
CVW 12	58	58	2	manure	X023-X190-X002-XXXX
CVW 3	62	62	2	manure	X023-X190-X001-XXXX
CVW 4	70	70	2	manure	X023-X190-X002-XXXX
CVW 5	58	58	2	manure	X023-X190-X002-XXXX
CVW 9	65	65	2	manure	X022-X220-X008-XXXX
Totals for areas that were used for application	3,190	3,190	59		
Totals for areas that were not used for application	257	195	0		
Land application area totals	3,447	3,385	59		

**B. CROPS AND HARVESTS**

11-5

Field name: 11-5

10/01/2021: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 85      Plant date: 10/01/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/27/2023	1,018.02 ton	As-is		10.0	35,600.00	2,600.00	16,200.00		26.56

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	11.98	852.74	62.28	388.05	5,725.82

11-6

Field name: 11-6

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11-6

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

Crop: Wheat, silage, soft dough      Acres planted: 51      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	1,056.00 ton	As-is		66.7	5,900.00	1,200.00	10,100.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	20.71	244.33	49.69	418.26	1,503.12

06/28/2023: Corn, silage

Crop: Corn, silage      Acres planted: 51      Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/07/2023	1,444.00 ton	As-is		64.0	5,000.00	1,200.00	4,200.00		24.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	28.31	283.14	67.95	237.84	5,012.89

13-10

Field name: 13-10

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

Crop: Wheat, silage, soft dough      Acres planted: 116      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 (%)
05/08/2023	2,261.00 ton	As-is		65.2	7,100.00	1,300.00	11,000.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	19.49	276.78	50.68	428.81	1,492.26

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13-10

05/21/2023: Sudangrass, silage

Crop: Sudangrass, silage      Acres planted: 116      Plant date: 05/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	2,548.00 <i>ton</i>	As-is		81.1	7,100.00	800.00	9,900.00		18.24

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	192.00	0.00
Total actual harvest content	21.97	311.91	35.14	434.92	1,514.46

13-12

Field name: 13-12

10/21/2017: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 88      Plant date: 10/21/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/27/2023	1,103.49 <i>ton</i>	As-is		10.0	34,100.00	2,600.00	16,200.00		26.56

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	12.54	855.20	65.21	406.28	5,994.96

13-2

Field name: 13-2

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13-2

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 92      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 (%)
05/19/2023	2,163.00 ton	As-is		65.6	6,500.00	1,200.00	11,000.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	23.51	305.64	56.43	517.24	1,714.60

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 92      Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/02/2023	2,455.00 ton	As-is		65.7	5,100.00	1,100.00	4,100.00		24.94

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	26.68	272.18	58.71	218.82	4,565.46

13-3

Field name: 13-3

10/28/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 101      Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,608.00 ton	As-is		65.0	6,700.00	1,200.00	9,400.00		17.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	259.20	43.20	149.40	0.00
Total actual harvest content	15.92	213.34	38.21	299.31	1,905.72

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13-3

07/03/2023: Corn, silage

Crop: Corn, silage      Acres planted: 101      Plant date: 07/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	2,566.00 ton	As-is		64.1	5,600.00	1,000.00	3,600.00		25.54
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		24.00 230.40 43.20 158.40				0.00			
Total actual harvest content		25.41 284.55 50.81 182.92				4,658.87			

13-4

Field name: 13-4

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

Crop: Wheat, silage, soft dough      Acres planted: 91      Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	1,467.00 ton	As-is		64.9	7,400.00	1,300.00	10,500.00		10.30
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		14.00 201.60 33.60 116.20				0.00			
Total actual harvest content		16.12 238.59 41.91 338.54				1,165.64			

06/29/2023: Corn, silage

Crop: Corn, silage      Acres planted: 91      Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	2,562.00 ton	As-is		65.0	5,500.00	900.00	3,600.00		25.80
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		24.00 230.40 43.20 158.40				0.00			
Total actual harvest content		28.15 309.69 50.68 202.71				5,084.58			

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13-6

Field name: 13-6

11/20/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 119 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 (%)
05/19/2023	2,866.00 ton	As-is		64.9	6,700.00	1,200.00	10,800.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	24.08	322.73	57.80	520.22	1,825.96

07/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 119 Plant date: 07/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/09/2023	2,821.00 ton	As-is		65.5	5,100.00	900.00	3,900.00		24.76

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	23.71	241.80	42.67	184.91	4,050.01

13-8

Field name: 13-8

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

Crop: Wheat, silage, soft dough Acres planted: 90 Plant date: 11/17/2022

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	1,333.00 ton	As-is		66.1	6,800.00	1,300.00	11,300.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	14.81	201.43	38.51	334.73	1,164.86

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13-8

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 90      Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	2,433.00 <i>ton</i>	As-is		70.0	6,100.00	1,000.00	3,400.00		23.69

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	27.03	329.81	54.07	183.83	3,842.52

14-10

Field name: 14-10

10/01/2021: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 100      Plant date: 10/01/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/29/2023	1,204.51 <i>ton</i>	As-is		10.0	30,800.00	3,400.00	28,200.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	12.05	741.98	81.91	679.34	2,363.25

14-11

Field name: 14-11

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

14-11

11/02/2018: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 64      Plant date: 11/02/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/27/2023	505.13 ton	As-is		10.0	32,600.00	2,600.00	15,500.00		26.09
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		8.00    476.80    49.60    336.00				0.00			
Total actual harvest content		7.89    514.60    41.04    244.67				3,706.55			

14-2

Field name: 14-2

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

Crop: Wheat, silage, soft dough      Acres planted: 120      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 (%)
05/03/2023	2,378.00 ton	As-is		72.2	5,000.00	1,400.00	9,300.00		11.80
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		14.00    201.60    33.60    116.20				0.00			
Total actual harvest content		19.82    198.17    55.49    368.59				1,300.13			

05/30/2023: Corn, silage

Crop: Corn, silage      Acres planted: 120      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 (%)
09/26/2023	3,423.00 ton	As-is		72.3	5,000.00	900.00	6,800.00		31.63
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		24.00    230.40    43.20    158.40				0.00			
Total actual harvest content		28.53    285.25    51.35    387.94				4,998.44			

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

14-3

Field name: 14-3

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

Crop: Wheat, silage, soft dough      Acres planted: 99      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 (%)
04/23/2023	1,590.00 ton	As-is		55.1	8,500.00	700.00	9,700.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	16.06	273.03	22.48	311.58	1,341.29

05/24/2023: Corn, silage

Crop: Corn, silage      Acres planted: 99      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 (%)
09/17/2023	2,580.00 ton	As-is		67.2	6,200.00	1,000.00	7,900.00		25.61

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	26.06	323.15	52.12	411.76	4,378.22

14-5

Field name: 14-5

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

Crop: Wheat, silage, soft dough      Acres planted: 120      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 (%)
04/27/2023	2,742.00 ton	As-is		66.0	6,300.00	1,300.00	10,900.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	22.85	287.91	59.41	498.13	1,786.87

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14-5

06/02/2023: Corn, silage

Crop: Corn, silage      Acres planted: 120      Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	3,612.00 ton	As-is		56.5	6,200.00	11,200.00	4,100.00		9.78

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	30.10	373.24	674.24	246.82	2,561.09

14-6

Field name: 14-6

10/21/2017: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 99      Plant date: 10/21/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/29/2023	982.71 ton	As-is		10.0	30,300.00	3,000.00	27,300.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	9.93	601.54	59.56	541.98	2,019.02

14-7

Field name: 14-7

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

14-7

10/29/2018: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 67      Plant date: 10/29/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/27/2023	<u>794.87 ton</u>	As-is		10.0	32,500.00	2,600.00	16,900.00		30.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	11.86	771.14	61.69	400.99	6,449.12

14-9

Field name: 14-9

10/09/2017: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 120      Plant date: 10/09/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/29/2023	<u>1,474.77 ton</u>	As-is		10.0	34,800.00	2,600.00	15,800.00		29.24

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	12.29	855.37	63.91	388.36	6,468.34

15-1

Field name: 15-1

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15-1

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

Crop: Wheat, silage, soft dough Acres planted: 43 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 (%)
05/12/2023	754.00 ton	As-is		67.0	5,300.00	1,100.00	9,600.00		11.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	17.53	185.87	38.58	336.67	1,365.62

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 43 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 (%)
10/18/2023	1,063.00 ton	As-is		70.0	7,200.00	900.00	3,100.00		25.03

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	24.72	355.98	44.50	153.27	3,712.59

15-3

Field name: 15-3

10/29/2022: Rye Grass Silage

Crop: Rye Grass Silage Acres planted: 95 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 (%)
06/06/2023	2,058.00 ton	As-is		65.0	6,800.00	1,200.00	9,800.00		17.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	259.20	43.20	149.40	0.00
Total actual harvest content	21.66	294.62	51.99	424.60	2,699.23

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15-3

07/08/2023: Corn, silage

Crop: Corn, silage      Acres planted: 95      Plant date: 07/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/08/2023	2,581.00 ton	As-is		62.6	5,800.00	1,000.00	3,600.00		24.87

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	27.17	315.15	54.34	195.61	5,054.08

15-4

Field name: 15-4

10/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 125      Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	2,610.00 ton	As-is		73.3	5,800.00	1,400.00	8,600.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	20.88	242.21	58.46	359.14	1,293.39

06/11/2023: Corn, silage

Crop: Corn, silage      Acres planted: 125      Plant date: 06/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	3,412.00 ton	As-is		67.6	5,900.00	800.00	3,200.00		26.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	27.30	322.09	43.67	174.69	4,600.60

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**15-5A**Field name: 15-5A

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

Crop: Wheat, silage, soft dough Acres planted: 82 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 (%)
05/17/2023	1,785.00 ton	As-is		75.1	4,600.00	1,200.00	7,700.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	21.77	200.27	52.24	335.23	1,203.31

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 82 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 (%)
10/20/2023	2,141.00 ton	As-is		67.7	5,100.00	900.00	3,800.00		25.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	26.11	266.32	47.00	198.43	4,267.33

**15-5B**Field name: 15-5B

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

Crop: Wheat, silage, soft dough Acres planted: 84 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 (%)
05/10/2023	2,194.00 ton	As-is		75.1	4,600.00	1,200.00	7,700.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	26.12	240.30	62.69	402.23	1,443.81

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15-5B

06/06/2023: Corn, silage

Crop: Corn, silage      Acres planted: 84    Plant date: 06/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	2,419.00 <i>ton</i>	As-is		61.0	6,100.00	1,000.00	5,800.00		13.66

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	28.80	351.33	57.60	334.05	3,068.33

15-6

Field name: 15-6

11/20/2022: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 102    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 (%)
11/29/2023	812.08 <i>ton</i>	As-is		10.0	29,800.00	3,400.00	27,600.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	7.96	474.51	54.14	439.48	1,519.07

15-7

Field name: 15-7

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15-7

10/30/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 100      Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/30/2023	2,056.00 ton	As-is		65.0	6,800.00	1,400.00	10,600.00		17.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	259.20	43.20	149.40	0.00
Total actual harvest content	20.56	279.62	57.57	435.87	2,576.17

07/04/2023: Corn, silage

Crop: Corn, silage      Acres planted: 100      Plant date: 07/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/08/2023	2,659.00 ton	As-is		63.9	6,400.00	1,100.00	4,000.00		24.42

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	26.59	340.35	58.50	212.72	4,688.15

16-1

Field name: 16-1

10/26/2020: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 98      Plant date: 10/26/2020

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	1,340.84 ton	As-is		10.0	33,700.00	2,800.00	16,200.00		27.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	13.68	922.17	76.62	443.30	6,671.64

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16-2

Field name: 16-2

11/30/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 93 Plant date: 11/30/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/30/2023	931.72 ton	As-is		10.0	29,300.00	3,200.00	27,300.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	10.02	587.08	64.12	547.01	1,947.60

16-3

Field name: 16-3

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

Crop: Wheat, silage, soft dough Acres planted: 94 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 (%)
04/24/2023	1,799.00 ton	As-is		54.6	8,700.00	600.00	8,700.00		8.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	19.14	333.01	22.97	333.01	1,494.47

05/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 94 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 (%)
09/20/2023	2,659.00 ton	As-is		66.1	5,900.00	1,300.00	6,400.00		21.03

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	28.29	333.79	73.55	362.08	4,033.29

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16-4

Field name: 16-4

11/06/2020: Alfalfa, hay

Crop: Alfalfa, hayAcres planted: 91 Plant date: 11/06/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/08/2023	1,009.80 ton	As-is		10.0	29,300.00	3,100.00	29,000.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	11.10	650.27	68.80	643.61	2,177.17

16-5

Field name: 16-5

11/12/2022: Alfalfa, hay

Crop: Alfalfa, hayAcres planted: 105 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/26/2023	1,011.00 ton	As-is		10.0	33,000.00	2,600.00	15,300.00		26.42

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	476.80	49.60	336.00	0.00
Total actual harvest content	9.63	635.49	50.07	294.63	4,578.96

16-6

Field name: 16-6

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16-6

11/16/2020: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 95      Plant date: 11/16/2020

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	1,254.60 ton	As-is		10.0	33,000.00	2,600.00	16,300.00		26.41
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		8.00    476.80    49.60    336.00				0.00			
Total actual harvest content		13.21    871.62    68.67    430.53				6,278.02			

CVW 10

Field name: CVW 10

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

Crop: Wheat, silage, soft dough      Acres planted: 44      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 (%)
05/11/2023	655.00 ton	As-is		64.3	7,100.00	1,300.00	11,100.00		11.10
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		14.00    201.60    33.60    116.20				0.00			
Total actual harvest content		14.89    211.39    38.70    330.48				1,179.80			

06/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 44      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 (%)
10/12/2023	1,315.00 ton	As-is		66.1	4,800.00	1,100.00	4,000.00		25.32
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		24.00    230.40    43.20    158.40				0.00			
Total actual harvest content		29.89    286.91    65.75    239.09				5,130.58			

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**CVW 12**Field name: CVW 12

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

Crop: Wheat, silage, soft dough Acres planted: 58 Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	1,143.00 ton	As-is		65.9	6,300.00	1,200.00	11,300.00		11.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	19.71	248.31	47.30	445.38	1,532.17

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 58 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 (%)
10/16/2023	1,741.00 ton	As-is		68.4	4,800.00	900.00	3,700.00		25.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	30.02	288.17	54.03	222.13	4,816.71

**CVW 3**Field name: CVW 3

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

Crop: Wheat, silage, soft dough Acres planted: 62 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,056.00 ton	As-is		65.8	6,500.00	1,300.00	8,800.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	17.03	221.42	44.28	299.77	1,223.26

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**CVW 3**

06/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 62      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 (%)
10/16/2023	1,580.00 <i>ton</i>	As-is		72.3	5,700.00	1,200.00	7,300.00		8.91

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	25.48	290.52	61.16	372.06	1,257.92

**CVW 4**

Field name: CVW 4

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

Crop: Wheat, silage, soft dough      Acres planted: 70      Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,201.00 <i>ton</i>	As-is		64.7	6,200.00	1,200.00	8,400.00		10.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	17.16	212.75	41.18	288.24	1,247.63

06/21/2023: Corn, silage

Crop: Corn, silage      Acres planted: 70      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 (%)
10/31/2023	1,838.00 <i>ton</i>	As-is		65.8	6,900.00	1,000.00	3,600.00		24.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	26.26	362.35	52.51	189.05	4,416.34

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**CVW 5**Field name: CVW 5

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

Crop: Wheat, silage, soft dough Acres planted: 58 Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	870.00 ton	As-is		65.6	6,100.00	1,100.00	8,800.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	15.00	183.00	33.00	264.00	1,093.92

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 58 Plant date: 06/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/26/2023	1,615.00 ton	As-is		70.9	3,900.00	900.00	4,600.00		25.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	27.84	217.19	50.12	256.17	4,172.97

**CVW 9**Field name: CVW 9

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

Crop: Wheat, silage, soft dough Acres planted: 65 Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	981.00 ton	As-is		65.0	6,600.00	1,300.00	10,900.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	201.60	33.60	116.20	0.00
Total actual harvest content	15.09	199.22	39.24	329.01	1,162.11

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CVW 9

06/14/2023: Corn, silage

Crop: Corn, silage      Acres planted: 65    Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/17/2023	1,738.00 <i>ton</i>	As-is		65.7	4,900.00	1,300.00	4,600.00		24.21

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	230.40	43.20	158.40	0.00
Total actual harvest content	26.74	262.04	69.52	245.99	4,440.74

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**NUTRIENT BUDGET****A. LAND APPLICATIONS**

11-5 - 10/01/2021: Alfalfa, hay

Field name: 11-5

Crop: Alfalfa, hay Plant date: 10/01/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
MID CANAL	Surface water	1.15	0.00	0.00	19.56	11,719,680.00 gal
Application event totals		1.15	0.00	0.00	19.56	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.20	0.00	0.00	20.46	12,257,280.00 gal
Application event totals		1.20	0.00	0.00	20.46	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 11-5	Ground water	1.99	0.00	0.00	170.21	7,224,000.00 gal
MID CANAL	Surface water	0.45	0.00	0.00	7.72	4,623,360.00 gal
Application event totals		2.45	0.00	0.00	177.93	
06/08/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	243.72	104.30	436.83	0.00	924.00 ton
Application event totals		243.72	104.30	436.83	0.00	
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 11-5	Ground water	2.22	0.00	0.00	190.01	8,064,000.00 gal
MID CANAL	Surface water	0.51	0.00	0.00	8.61	5,160,960.00 gal
Application event totals		2.73	0.00	0.00	198.62	

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11-5 - 10/01/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
IW 11-5	Ground water	1.67	0.00	0.00	142.51	6,048,000.00 gal
MID CANAL	Surface water	0.38	0.00	0.00	6.46	3,870,720.00 gal
Application event totals		2.05	0.00	0.00	148.97	
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
IW 11-5	Ground water	1.76	0.00	0.00	150.42	6,384,000.00 gal
MID CANAL	Surface water	0.40	0.00	0.00	6.82	4,085,760.00 gal
Application event totals		2.16	0.00	0.00	157.24	
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
IW 11-5	Ground water	2.83	0.00	0.00	241.47	10,248,000.00 gal
Application event totals		2.83	0.00	0.00	241.47	
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
IW 11-5	Ground water	2.92	0.00	0.00	249.38	10,584,000.00 gal
Application event totals		2.92	0.00	0.00	249.38	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 11-5	Ground water	2.41	0.00	0.00	205.84	8,736,000.00 gal
Application event totals		2.41	0.00	0.00	205.84	
10/16/2023	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
IW 11-5	Ground water	2.69	0.00	0.00	229.59	9,744,000.00 gal
Application event totals		2.69	0.00	0.00	229.59	

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11-6 - 11/06/2022: Wheat, silage, soft dough

Field name: 11-6

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	
10/25/2022	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	234.59	76.60	337.99	0.00	280.00 ton
Application event totals		234.59	76.60	337.99	0.00	
01/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.99	0.00	0.00	33.80	12,149,760.00 gal
Application event totals		1.99	0.00	0.00	33.80	
03/04/2023	Surface (irrigation)	No precipitation	Light rain	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 11-5	Ground water	3.79	0.00	0.00	323.28	8,232,000.00 gal
MID CANAL	Surface water	0.86	0.00	0.00	14.66	5,268,480.00 gal
Application event totals		4.65	0.00	0.00	337.93	

11-6 - 06/28/2023: Corn, silage

Field name: 11-6

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	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	281.66	122.69	364.61	0.00	612.00 ton
Application event totals		281.66	122.69	364.61	0.00	

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11-6 - 06/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.57	0.00	0.00	26.62	9,569,280.00 gal
Application event totals		1.57	0.00	0.00	26.62	
06/28/2023	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	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
MID CANAL	Surface water	1.39	0.00	0.00	23.63	8,494,080.00 gal
Application event totals		1.39	0.00	0.00	23.63	
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
MID CANAL	Surface water	1.28	0.00	0.00	21.83	7,848,960.00 gal
Application event totals		1.28	0.00	0.00	21.83	
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
IW 11-5	Ground water	2.63	0.00	0.00	224.31	5,712,000.00 gal
MID CANAL	Surface water	0.60	0.00	0.00	10.17	3,655,680.00 gal
Application event totals		3.22	0.00	0.00	234.48	
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
IW 11-5	Ground water	2.39	0.00	0.00	204.52	5,208,000.00 gal
MID CANAL	Surface water	0.55	0.00	0.00	9.27	3,333,120.00 gal
Application event totals		2.94	0.00	0.00	213.79	

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11-6 - 06/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/28/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
09/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 11-5	Ground water	3.71	0.00	0.00	316.68	8,064,000.00 gal
Application event totals		3.71	0.00	0.00	316.68	
10/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 11-5	Ground water	3.32	0.00	0.00	283.69	7,224,000.00 gal
Application event totals		3.32	0.00	0.00	283.69	

13-10 - 11/02/2022: Wheat, silage, soft dough

Field name: 13-10

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	
10/21/2022	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	321.93	105.12	463.85	0.00	874.00 ton
Application event totals		321.93	105.12	463.85	0.00	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	2.13	0.00	0.00	36.16	29,568,000.00 gal
Application event totals		2.13	0.00	0.00	36.16	

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13-10 - 11/02/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/23/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID CANAL	Surface water	1.83	0.00	0.00	31.16
Application event totals		1.83	0.00	0.00	31.16
					25,482,240.00 gal

13-10 - 05/21/2023: Sudangrass, silage

Field name: 13-10

Crop: Sudangrass, silage

Plant date: 05/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID CANAL	Surface water	1.22	0.00	0.00	20.78
Application event totals		1.22	0.00	0.00	20.78
05/10/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Corral Solids	Corral solids	320.51	139.61	414.90	0.00
Application event totals		320.51	139.61	414.90	0.00
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID CANAL	Surface water	1.45	0.00	0.00	24.72
Application event totals		1.45	0.00	0.00	24.72
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IW 13-10	Ground water	1.90	0.00	0.00	314.29
MID CANAL	Surface water	0.68	0.00	0.00	11.57
Application event totals		2.58	0.00	0.00	325.87
					13,738,560.00 gal
					9,461,760.00 gal

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13-10 - 05/21/2023: Sudangrass, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
IW 13-10	Ground water	2.18	0.00	0.00	360.72	15,768,120.00 gal
MID CANAL	Surface water	0.78	0.00	0.00	13.28	10,859,520.00 gal
Application event totals		2.96	0.00	0.00	374.01	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-10	Ground water	1.70	0.00	0.00	282.15	12,333,480.00 gal
MID CANAL	Surface water	0.61	0.00	0.00	10.39	8,494,080.00 gal
Application event totals		2.31	0.00	0.00	292.54	

13-12 - 10/21/2017: Alfalfa, hay

Field name: 13-12

Crop: Alfalfa, hay

Plant date: 10/21/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
MID CANAL	Surface water	1.50	0.00	0.00	25.48	15,805,440.00 gal
Application event totals		1.50	0.00	0.00	25.48	
03/18/2023	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
MID CANAL	Surface water	0.95	0.00	0.00	16.12	9,999,360.00 gal
Application event totals		0.95	0.00	0.00	16.12	

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13-12 - 10/21/2017: Alfalfa, hay

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
MID CANAL	Surface water	1.05	0.00	0.00	17.85	11,074,560.00 gal
Application event totals		1.05	0.00	0.00	17.85	
05/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-11	Ground water	8.95	0.00	0.00	253.56	8,355,840.00 gal
MID CANAL	Surface water	0.65	0.00	0.00	11.09	6,881,280.00 gal
Application event totals		9.61	0.00	0.00	264.66	
05/24/2023	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
Drying Solids	Separator solids	243.82	104.35	437.01	0.00	957.00 ton
Application event totals		243.82	104.35	437.01	0.00	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-11	Ground water	8.11	0.00	0.00	229.79	7,572,480.00 gal
MID CANAL	Surface water	0.59	0.00	0.00	10.05	6,236,160.00 gal
Application event totals		8.71	0.00	0.00	239.84	
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
IW 13-11	Ground water	10.91	0.00	0.00	309.03	10,183,680.00 gal
IW 13-12	Ground water	5.18	0.00	0.00	241.55	3,818,880.00 gal
Application event totals		16.09	0.00	0.00	550.58	

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13-12 - 10/21/2017: Alfalfa, hay

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
IW 13-11	Ground water	12.45	0.00	0.00	352.61	11,619,840.00 gal
Application event totals		12.45	0.00	0.00	352.61	
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
IW 13-11	Ground water	11.75	0.00	0.00	332.80	10,967,040.00 gal
Application event totals		11.75	0.00	0.00	332.80	
10/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-11	Ground water	10.91	0.00	0.00	309.03	10,183,680.00 gal
Application event totals		10.91	0.00	0.00	309.03	

13-2 - 11/21/2022: Wheat, silage, soft dough

Field name: 13-2

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	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
Corral Solids	Corral solids	290.27	94.78	418.23	0.00	625.00 ton
Application event totals		290.27	94.78	418.23	0.00	
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
MID CANAL	Surface water	1.38	0.00	0.00	23.54	15,267,840.00 gal
Application event totals		1.38	0.00	0.00	23.54	

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13-2 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/18/2023	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
MID CANAL	Surface water	1.75	0.00	0.00	29.68	19,246,080.00 gal
Application event totals		1.75	0.00	0.00	29.68	
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
MID CANAL	Surface water	1.49	0.00	0.00	25.37	16,450,560.00 gal
Application event totals		1.49	0.00	0.00	25.37	

13-2 - 06/20/2023: Corn, silage

Field name: 13-2

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	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	278.60	121.35	360.64	0.00	1,092.00 ton
Application event totals		278.60	121.35	360.64	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
MID CANAL	Surface water	1.35	0.00	0.00	22.88	14,837,760.00 gal
Application event totals		1.35	0.00	0.00	22.88	
06/20/2023	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	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	

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13-2 - 06/20/2023: 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
MID CANAL	Surface water	1.12	0.00	0.00	19.07	12,364,800.00 gal
Application event totals		1.12	0.00	0.00	19.07	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-2	Ground water	2.14	0.00	0.00	342.08	10,248,000.00 gal
MID CANAL	Surface water	0.59	0.00	0.00	10.11	6,558,720.00 gal
Application event totals		2.73	0.00	0.00	352.19	
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
IW 13-2	Ground water	2.31	0.00	0.00	370.12	11,088,000.00 gal
MID CANAL	Surface water	0.64	0.00	0.00	10.94	7,096,320.00 gal
Application event totals		2.96	0.00	0.00	381.06	
08/21/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
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
IW 13-2	Ground water	1.86	0.00	0.00	297.22	8,904,000.00 gal
MID CANAL	Surface water	0.52	0.00	0.00	8.79	5,698,560.00 gal
Application event totals		2.37	0.00	0.00	306.00	

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## 13-2 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-2	Ground water	2.73	0.00	0.00	437.41	13,104,000.00 gal
Application event totals		2.73	0.00	0.00	437.41	
10/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-2	Ground water	2.84	0.00	0.00	454.24	13,608,000.00 gal
Application event totals		2.84	0.00	0.00	454.24	

## 13-3 - 10/28/2022: Rye Grass Silage

Field name: 13-3

Crop: Rye Grass Silage

Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	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
Corral Solids	Corral solids	215.76	70.45	310.86	0.00	510.00 ton
Application event totals		215.76	70.45	310.86	0.00	
01/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.51	0.00	0.00	25.67	18,278,400.00 gal
Application event totals		1.51	0.00	0.00	25.67	
03/04/2023	Surface (irrigation)	No precipitation	Light rain	Light rain	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.39	0.00	0.00	23.56	16,773,120.00 gal
Application event totals		1.39	0.00	0.00	23.56	

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13-3 - 10/28/2022: Rye Grass Silage

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
MID CANAL	Surface water	1.43	0.00	0.00	24.31	17,310,720.00 gal
Application event totals		1.43	0.00	0.00	24.31	

13-3 - 07/03/2023: Corn, silage

Field name: 13-3

Crop: Corn, silage

Plant date: 07/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/23/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	309.32	134.73	400.41	0.00	1,331.00 ton
Application event totals		309.32	134.73	400.41	0.00	
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
MID CANAL	Surface water	1.85	0.00	0.00	31.41	22,364,160.00 gal
Application event totals		1.85	0.00	0.00	31.41	
07/03/2023	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	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
MID CANAL	Surface water	1.35	0.00	0.00	22.96	16,343,040.00 gal
Application event totals		1.35	0.00	0.00	22.96	

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13-3 - 07/03/2023: Corn, silage

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
MID CANAL	Surface water	1.42	0.00	0.00	24.16	17,203,200.00 gal
Application event totals		1.42	0.00	0.00	24.16	
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
IW 13-2	Ground water	2.84	0.00	0.00	454.62	14,952,000.00 gal
Application event totals		2.84	0.00	0.00	454.62	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-2	Ground water	3.16	0.00	0.00	505.71	16,632,000.00 gal
Application event totals		3.16	0.00	0.00	505.71	
09/04/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
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
IW 13-2	Ground water	2.27	0.00	0.00	362.68	11,928,000.00 gal
Application event totals		2.27	0.00	0.00	362.68	
10/14/2023	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
IW 13-2	Ground water	2.52	0.00	0.00	403.54	13,272,000.00 gal
Application event totals		2.52	0.00	0.00	403.54	

13-4 - 11/18/2022: Wheat, silage, soft dough

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13-4 - 11/18/2022: Wheat, silage, soft dough

Field name: 13-4Crop: Wheat, silage, soft doughPlant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/09/2022	Broadcast/incorporate	Light rain	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	276.09	90.15	397.79	0.00	588.00 ton
Application event totals		276.09	90.15	397.79	0.00	
02/01/2023	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
MID CANAL	Surface water	2.08	0.00	0.00	35.37	22,686,720.00 gal
Application event totals		2.08	0.00	0.00	35.37	
03/23/2023	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
MID CANAL	Surface water	1.76	0.00	0.00	29.84	19,138,560.00 gal
Application event totals		1.76	0.00	0.00	29.84	

13-4 - 06/29/2023: Corn, silage

Field name: 13-4Crop: Corn, silagePlant date: 06/29/2023

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	305.14	132.91	394.99	0.00	1,183.00 ton
Application event totals		305.14	132.91	394.99	0.00	

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13-4 - 06/29/2023: 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
MID CANAL	Surface water	1.47	0.00	0.00	24.98	16,020,480.00 gal
Application event totals		1.47	0.00	0.00	24.98	
06/29/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
MID CANAL	Surface water	1.26	0.00	0.00	21.46	13,762,560.00 gal
Application event totals		1.26	0.00	0.00	21.46	
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
IW 14-7	Ground water	1.48	0.00	0.00	270.84	8,560,800.00 gal
MID CANAL	Surface water	0.57	0.00	0.00	9.72	6,236,160.00 gal
Application event totals		2.05	0.00	0.00	280.57	
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
IW 14-7	Ground water	1.25	0.00	0.00	228.82	7,232,400.00 gal
MID CANAL	Surface water	0.48	0.00	0.00	8.21	5,268,480.00 gal
Application event totals		1.73	0.00	0.00	237.03	
08/29/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	

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13-4 - 06/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-7	Ground water	2.06	0.00	0.00	378.25	11,955,600.00 gal
Application event totals		2.06	0.00	0.00	378.25	
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
IW 14-7	Ground water	1.83	0.00	0.00	336.22	10,627,200.00 gal
Application event totals		1.83	0.00	0.00	336.22	
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
IW 14-7	Ground water	2.19	0.00	0.00	401.60	12,693,600.00 gal
Application event totals		2.19	0.00	0.00	401.60	

13-6 - 11/20/2022: Wheat, silage, soft dough

Field name: 13-6

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/11/2022	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	328.54	107.28	473.36	0.00	915.00 ton
Application event totals		328.54	107.28	473.36	0.00	
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
MID CANAL	Surface water	1.83	0.00	0.00	31.15	26,127,360.00 gal
Application event totals		1.83	0.00	0.00	31.15	

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13-6 - 11/20/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/03/2023	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
MID CANAL	Surface water	2.03	0.00	0.00	34.48	28,922,880.00 gal
Application event totals		2.03	0.00	0.00	34.48	

13-6 - 07/13/2023: Corn, silage

Field name: 13-6

Crop: Corn, silage

Plant date: 07/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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	248.33	108.17	321.46	0.00	1,259.00 ton
Application event totals		248.33	108.17	321.46	0.00	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-10	Ground water	1.87	0.00	0.00	309.86	13,894,880.00 gal
MID CANAL	Surface water	0.67	0.00	0.00	11.41	9,569,280.00 gal
Application event totals		2.54	0.00	0.00	321.26	
07/13/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
MID CANAL	Surface water	1.25	0.00	0.00	21.28	17,848,320.00 gal
Application event totals		1.25	0.00	0.00	21.28	

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13-6 - 07/13/2023: Corn, silage

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
MID CANAL	Surface water	1.36	0.00	0.00	23.20	19,461,120.00 gal
Application event totals		1.36	0.00	0.00	23.20	
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
IW 13-10	Ground water	1.56	0.00	0.00	257.63	11,552,880.00 gal
MID CANAL	Surface water	0.56	0.00	0.00	9.49	7,956,480.00 gal
Application event totals		2.11	0.00	0.00	267.12	
09/15/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
09/22/2023	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
IW 13-10	Ground water	2.61	0.00	0.00	431.70	19,358,880.00 gal
Application event totals		2.61	0.00	0.00	431.70	
10/14/2023	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
IW 13-10	Ground water	1.64	0.00	0.00	271.56	12,177,360.00 gal
MID CANAL	Surface water	0.59	0.00	0.00	10.00	8,386,560.00 gal
Application event totals		2.23	0.00	0.00	281.55	

13-8 - 11/17/2022: Wheat, silage, soft dough

Field name: 13-8

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022

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## 13-8 - 11/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/07/2022	Broadcast/incorporate	No precipitation	Light rain		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	268.71	87.74	387.16	0.00	566.00 ton
Application event totals		268.71	87.74	387.16	0.00	
01/30/2023	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
MID CANAL	Surface water	1.77	0.00	0.00	30.17	19,138,560.00 gal
Application event totals		1.77	0.00	0.00	30.17	
02/21/2023	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
MID CANAL	Surface water	1.31	0.00	0.00	22.20	14,085,120.00 gal
Application event totals		1.31	0.00	0.00	22.20	
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
MID CANAL	Surface water	1.23	0.00	0.00	20.85	13,224,960.00 gal
Application event totals		1.23	0.00	0.00	20.85	

## 13-8 - 06/20/2023: Corn, silage

Field name: 13-8

Crop: Corn, silage

Plant date: 06/20/2023

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	278.53	121.32	360.56	0.00	1,068.00 ton
Application event totals		278.53	121.32	360.56	0.00	

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13-8 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.63	0.00	0.00	27.79	17,633,280.00 gal
Application event totals		1.63	0.00	0.00	27.79	
06/20/2023	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	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
MID CANAL	Surface water	1.29	0.00	0.00	21.86	13,870,080.00 gal
Application event totals		1.29	0.00	0.00	21.86	
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
MID CANAL	Surface water	1.37	0.00	0.00	23.22	14,730,240.00 gal
Application event totals		1.37	0.00	0.00	23.22	
08/04/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	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
MID CANAL	Surface water	0.99	0.00	0.00	16.78	10,644,480.00 gal
Application event totals		0.99	0.00	0.00	16.78	

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13-8 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-8	Ground water	4.20	0.00	0.00	216.11	3,515,400.00 gal
MID CANAL	Surface water	0.63	0.00	0.00	10.68	6,773,760.00 gal
Application event totals		4.83	0.00	0.00	226.79	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-7	Ground water	1.31	0.00	0.00	240.80	7,527,600.00 gal
MID CANAL	Surface water	0.51	0.00	0.00	8.64	5,482,520.00 gal
Application event totals		1.82	0.00	0.00	249.44	
10/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 13-8	Ground water	4.00	0.00	0.00	205.82	3,348,000.00 gal
MID CANAL	Surface water	0.60	0.00	0.00	10.17	6,451,200.00 gal
Application event totals		4.60	0.00	0.00	215.99	

14-10 - 10/01/2021: Alfalfa, hay

Field name: 14-10

Crop: Alfalfa, hay Plant date: 10/01/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/13/2023	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
MID CANAL	Surface water	1.07	0.00	0.00	18.15	12,794,880.00 gal
Application event totals		1.07	0.00	0.00	18.15	

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14-10 - 10/01/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/19/2023	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
MID CANAL	Surface water	1.34	0.00	0.00	22.73	16,020,480.00 gal
Application event totals		1.34	0.00	0.00	22.73	
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
MID CANAL	Surface water	1.18	0.00	0.00	19.98	14,085,120.00 gal
Application event totals		1.18	0.00	0.00	19.98	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.11	0.00	0.00	18.91	13,332,480.00 gal
Application event totals		1.11	0.00	0.00	18.91	
05/24/2023	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
Drying Solids	Separator solids	246.62	105.55	442.04	0.00	1,100.00 ton
Application event totals		246.62	105.55	442.04	0.00	
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
IW 14-10	Ground water	13.28	0.00	0.00	274.51	5,100,000.00 gal
MID CANAL	Surface water	0.76	0.00	0.00	12.97	9,139,200.00 gal
Application event totals		14.04	0.00	0.00	287.47	
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
IW 14-10	Ground water	11.56	0.00	0.00	238.98	4,440,000.00 gal
MID CANAL	Surface water	0.66	0.00	0.00	11.29	7,956,480.00 gal
Application event totals		12.22	0.00	0.00	250.27	

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14-10 - 10/01/2021: Alfalfa, hay

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
IW 14-10	Ground water	12.50	0.00	0.00	258.36	4,800,000.00 gal
MID CANAL	Surface water	0.72	0.00	0.00	12.20	8,601,600.00 gal
Application event totals		13.22	0.00	0.00	270.56	
09/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-10	Ground water	14.22	0.00	0.00	293.89	5,460,000.00 gal
MID CANAL	Surface water	0.82	0.00	0.00	13.88	9,784,320.00 gal
Application event totals		15.03	0.00	0.00	307.77	
10/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-7	Ground water	1.64	0.00	0.00	301.71	10,479,600.00 gal
IW 14-10	Ground water	11.09	0.00	0.00	229.30	4,260,000.00 gal
Application event totals		12.74	0.00	0.00	531.01	

14-11 - 11/02/2018: Alfalfa, hay

Field name: 14-11

Crop: Alfalfa, hay Plant date: 11/02/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
MID CANAL	Surface water	1.11	0.00	0.00	18.83	8,494,080.00 gal
Application event totals		1.11	0.00	0.00	18.83	

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14-11 - 11/02/2018: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.22	0.00	0.00	20.73	9,354,240.00 gal
Application event totals		1.22	0.00	0.00	20.73	
05/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.28	0.00	0.00	21.69	9,784,320.00 gal
Application event totals		1.28	0.00	0.00	21.69	
06/02/2023	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
Drying Solids	Separator solids	242.77	103.90	435.13	0.00	693.00 ton
Application event totals		242.77	103.90	435.13	0.00	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-7	Ground water	2.39	0.00	0.00	438.22	9,741,600.00 gal
Application event totals		2.39	0.00	0.00	438.22	
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
IW 14-7	Ground water	2.21	0.00	0.00	405.02	9,003,600.00 gal
Application event totals		2.21	0.00	0.00	405.02	
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
IW 14-7	Ground water	1.95	0.00	0.00	358.55	7,970,400.00 gal
Application event totals		1.95	0.00	0.00	358.55	

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14-11 - 11/02/2018: Alfalfa, hay

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
IW 14-7	Ground water	2.06	0.00	0.00	378.47	8,413,200.00 gal
Application event totals		2.06	0.00	0.00	378.47	
09/24/2023	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
IW 14-7	Ground water	2.21	0.00	0.00	405.02	9,003,600.00 gal
Application event totals		2.21	0.00	0.00	405.02	
10/27/2023	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
IW 14-7	Ground water	1.77	0.00	0.00	325.35	7,232,400.00 gal
Application event totals		1.77	0.00	0.00	325.35	

14-2 - 10/29/2022: Wheat, silage, soft dough

Field name: 14-2

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	
02/03/2023	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	122.57	17.11	205.99	922.12	4,080,000.00 gal
MID CANAL	Surface water	1.77	0.00	0.00	30.13	25,482,240.00 gal
Application event totals		124.34	17.11	205.99	952.25	

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

14-2 - 10/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/26/2023	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	138.79	19.37	233.25	1,044.17	4,620,000.00 gal
MID CANAL	Surface water	2.01	0.00	0.00	34.19	28,922,880.00 gal
Application event totals		140.81	19.37	233.25	1,078.36	

14-2 - 05/30/2023: Corn, silage

Field name: 14-2

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.66	0.00	0.00	28.22	23,869,440.00 gal
Application event totals		1.66	0.00	0.00	28.22	
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
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
MID CANAL	Surface water	1.33	0.00	0.00	22.63	19,138,560.00 gal
Application event totals		1.33	0.00	0.00	22.63	
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
MID CANAL	Surface water	1.41	0.00	0.00	23.90	20,213,760.00 gal
Application event totals		1.41	0.00	0.00	23.90	

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14-2 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Wastewater	Process wastewater	138.75	10.14	185.51	922.12	3,900,000.00 gal
MID CANAL	Surface water	1.22	0.00	0.00	20.72	17,525,760.00 gal
Application event totals		139.97	10.14	185.51	942.84	
07/31/2023	Foliar	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-3	Ground water	19.02	0.00	0.00	339.83	5,959,440.00 gal
15-1 Reservoir	Ground water	1.20	0.00	0.00	36.48	11,160,000.00 gal
Application event totals		20.23	0.00	0.00	376.31	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	108.87	7.96	145.55	723.51	3,060,000.00 gal
IW 14-3	Ground water	20.66	0.00	0.00	369.06	6,472,080.00 gal
15-1 Reservoir	Ground water	1.31	0.00	0.00	39.61	12,120,000.00 gal
Application event totals		130.83	7.96	145.55	1,132.19	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-3	Ground water	25.77	0.00	0.00	460.42	8,074,080.00 gal
IW 15-5	Ground water	14.43	0.00	0.00	289.59	4,551,120.00 gal
Application event totals		40.20	0.00	0.00	750.01	

14-3 - 10/28/2022: Wheat, silage, soft dough

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

14-3 - 10/28/2022: Wheat, silage, soft dough

Field name: 14-3Crop: Wheat, silage, soft doughPlant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	128.91	17.99	216.64	969.79	3,540,000.00 gal
MID CANAL	Surface water	1.60	0.00	0.00	27.12	18,923,520.00 gal
Application event totals		130.50	17.99	216.64	996.91	
03/02/2023	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
Wastewater	Process wastewater	172.60	24.09	290.07	1,298.53	4,740,000.00 gal
MID CANAL	Surface water	2.14	0.00	0.00	36.36	25,374,720.00 gal
Application event totals		174.74	24.09	290.07	1,334.89	

14-3 - 05/24/2023: Corn, silage

Field name: 14-3Crop: Corn, silagePlant date: 05/24/2023

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	145.49	15.07	223.81	1,051.98	3,120,000.00 gal
MID CANAL	Surface water	1.65	0.00	0.00	28.04	19,568,640.00 gal
Application event totals		147.14	15.07	223.81	1,080.02	
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
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	

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14-3 - 05/24/2023: Corn, silage

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
MID CANAL	Surface water	1.46	0.00	0.00	24.81	17,310,720.00 gal
Application event totals		1.46	0.00	0.00	24.81	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	111.26	8.13	148.75	739.42	2,580,000.00 gal
IW 14-3	Ground water	26.53	0.00	0.00	473.93	6,856,560.00 gal
MID CANAL	Surface water	0.97	0.00	0.00	16.49	11,504,640.00 gal
Application event totals		138.76	8.13	148.75	1,229.83	
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
IW 14-3	Ground water	24.79	0.00	0.00	442.92	6,408,000.00 gal
MID CANAL	Surface water	0.91	0.00	0.00	15.41	10,752,000.00 gal
Application event totals		25.70	0.00	0.00	458.33	
07/26/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
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
IW 14-3	Ground water	27.77	0.00	0.00	496.07	7,176,960.00 gal
MID CANAL	Surface water	1.02	0.00	0.00	17.26	12,042,240.00 gal
Application event totals		28.78	0.00	0.00	513.33	

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14-3 - 05/24/2023: 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)
IW 14-3	Ground water	42.15	0.00	0.00	752.97
Application event totals		42.15	0.00	0.00	752.97
					10,893,600.00 gal

14-5 - 11/02/2022: Wheat, silage, soft dough

Field name: 14-5

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
01/12/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	144.20	20.13	242.34	1,084.85
MID CANAL	Surface water	1.35	0.00	0.00	23.01
Application event totals		145.55	20.13	242.34	1,107.86
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		Steady rain
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID CANAL	Surface water	1.17	0.00	0.00	19.83
Application event totals		1.17	0.00	0.00	19.83
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)
Wastewater	Process wastewater	150.03	15.54	230.80	1,084.85
MID CANAL	Surface water	1.21	0.00	0.00	20.59
Application event totals		151.25	15.54	230.80	1,105.44

14-5 - 06/02/2023: Corn, silage

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

14-5 - 06/02/2023: Corn, silage

Field name: 14-5

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.44	0.00	0.00	24.53	20,751,360.00 gal
Application event totals		1.44	0.00	0.00	24.53	
06/02/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	131.57	13.63	202.40	951.33	3,420,000.00 gal
MID CANAL	Surface water	1.28	0.00	0.00	21.74	18,385,920.00 gal
Application event totals		132.85	13.63	202.40	973.07	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.41	0.00	0.00	23.90	20,213,760.00 gal
Application event totals		1.41	0.00	0.00	23.90	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-5	Ground water	35.89	0.00	0.00	679.16	9,574,800.00 gal
MID CANAL	Surface water	0.76	0.00	0.00	12.84	10,859,520.00 gal
Application event totals		36.64	0.00	0.00	692.00	

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## 14-5 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/04/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
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
Wastewater	Process wastewater	106.73	7.80	142.70	709.33	3,000,000.00 gal
IW 14-5	Ground water	35.18	0.00	0.00	665.72	9,385,200.00 gal
MID CANAL	Surface water	0.74	0.00	0.00	12.58	10,644,480.00 gal
Application event totals		142.65	7.80	142.70	1,387.62	
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
IW 14-5	Ground water	29.85	0.00	0.00	564.85	7,963,200.00 gal
MID CANAL	Surface water	0.63	0.00	0.00	10.68	9,031,680.00 gal
Application event totals		30.48	0.00	0.00	575.53	
09/11/2023	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
IW 14-5	Ground water	39.80	0.00	0.00	753.13	10,617,600.00 gal
Application event totals		39.80	0.00	0.00	753.13	

## 14-6 - 10/21/2017: Alfalfa, hay

Field name: 14-6

Crop: Alfalfa, hay

Plant date: 10/21/2017

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.

14-6 - 10/21/2017: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/01/2023	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
MID CANAL	Surface water	1.05	0.00	0.00	17.87	12,472,320.00 gal
Application event totals		1.05	0.00	0.00	17.87	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.12	0.00	0.00	19.11	13,332,480.00 gal
Application event totals		1.12	0.00	0.00	19.11	
05/11/2023	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
MID CANAL	Surface water	1.24	0.00	0.00	21.11	14,730,240.00 gal
Application event totals		1.24	0.00	0.00	21.11	
05/23/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	246.85	105.64	442.44	0.00	1,090.00 ton
Application event totals		246.85	105.64	442.44	0.00	
06/07/2023	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
MID CANAL	Surface water	1.08	0.00	0.00	18.33	12,794,880.00 gal
Application event totals		1.08	0.00	0.00	18.33	
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
MID CANAL	Surface water	1.33	0.00	0.00	22.65	15,805,440.00 gal
Application event totals		1.33	0.00	0.00	22.65	

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14-6 - 10/21/2017: Alfalfa, hay

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
IW 14-10	Ground water	13.25	0.00	0.00	274.02	5,040,000.00 gal
MID CANAL	Surface water	0.76	0.00	0.00	12.94	9,031,680.00 gal
Application event totals		14.02	0.00	0.00	286.96	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-7	Ground water	1.50	0.00	0.00	274.71	9,446,400.00 gal
MID CANAL	Surface water	0.58	0.00	0.00	9.86	6,881,280.00 gal
Application event totals		2.08	0.00	0.00	284.57	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-5	Ground water	32.30	0.00	0.00	611.31	7,110,000.00 gal
IW 14-10	Ground water	11.83	0.00	0.00	244.66	4,500,000.00 gal
Application event totals		44.14	0.00	0.00	855.97	
10/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-7	Ground water	1.33	0.00	0.00	244.66	8,413,200.00 gal
IW 14-10	Ground water	8.99	0.00	0.00	185.94	3,420,000.00 gal
Application event totals		10.33	0.00	0.00	430.61	

14-7 - 10/29/2018: Alfalfa, hay

Field name: 14-7

Crop: Alfalfa, hay

Plant date: 10/29/2018

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.

14-7 - 10/29/2018: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation		Steady rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.34	0.00	0.00	22.77	10,752,000.00 gal
Application event totals		1.34	0.00	0.00	22.77	
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
MID CANAL	Surface water	1.46	0.00	0.00	24.82	11,719,680.00 gal
Application event totals		1.46	0.00	0.00	24.82	
05/11/2023	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
MID CANAL	Surface water	1.29	0.00	0.00	21.86	10,321,920.00 gal
Application event totals		1.29	0.00	0.00	21.86	
06/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	224.20	95.95	401.85	0.00	670.00 ton
Application event totals		224.20	95.95	401.85	0.00	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-7	Ground water	2.45	0.00	0.00	450.31	10,479,600.00 gal
Application event totals		2.45	0.00	0.00	450.31	
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
IW 14-7	Ground water	2.56	0.00	0.00	469.34	10,922,400.00 gal
Application event totals		2.56	0.00	0.00	469.34	

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14-7 - 10/29/2018: Alfalfa, hay

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
IW 14-7	Ground water	2.80	0.00	0.00	513.74	11,955,600.00 gal
Application event totals		2.80	0.00	0.00	513.74	
09/11/2023	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
IW 14-7	Ground water	2.18	0.00	0.00	399.57	9,298,800.00 gal
Application event totals		2.18	0.00	0.00	399.57	
10/15/2023	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
IW 14-7	Ground water	2.04	0.00	0.00	374.20	8,708,400.00 gal
Application event totals		2.04	0.00	0.00	374.20	

14-9 - 10/09/2017: Alfalfa, hay

Field name: 14-9

Crop: Alfalfa, hay

Plant date: 10/09/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		Steady rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	0.94	0.00	0.00	16.02	13,547,520.00 gal
Application event totals		0.94	0.00	0.00	16.02	
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
MID CANAL	Surface water	1.11	0.00	0.00	18.81	15,912,960.00 gal
Application event totals		1.11	0.00	0.00	18.81	

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14-9 - 10/09/2017: Alfalfa, hay

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
MID CANAL	Surface water	1.26	0.00	0.00	21.35	18,063,360.00 gal
Application event totals		1.26	0.00	0.00	21.35	
06/01/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	242.88	103.95	435.34	0.00	1,300.00 ton
Application event totals		242.88	103.95	435.34	0.00	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.09	0.00	0.00	18.56	15,697,920.00 gal
Application event totals		1.09	0.00	0.00	18.56	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-10	Ground water	14.06	0.00	0.00	290.66	6,480,000.00 gal
MID CANAL	Surface water	0.81	0.00	0.00	13.73	11,612,160.00 gal
Application event totals		14.87	0.00	0.00	304.38	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-10	Ground water	12.37	0.00	0.00	255.67	5,700,000.00 gal
MID CANAL	Surface water	0.71	0.00	0.00	12.08	10,214,400.00 gal
Application event totals		13.08	0.00	0.00	267.75	

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14-9 - 10/09/2017: Alfalfa, hay

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
IW 14-10	Ground water	14.84	0.00	0.00	306.80	6,840,000.00 gal
MID CANAL	Surface water	0.85	0.00	0.00	14.49	12,257,280.00 gal
Application event totals		15.69	0.00	0.00	321.29	
09/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-10	Ground water	13.02	0.00	0.00	269.13	6,000,000.00 gal
MID CANAL	Surface water	0.75	0.00	0.00	12.71	10,752,000.00 gal
Application event totals		13.77	0.00	0.00	281.84	
10/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 14-10	Ground water	13.41	0.00	0.00	277.20	6,180,000.00 gal
MID CANAL	Surface water	0.77	0.00	0.00	13.09	11,074,560.00 gal
Application event totals		14.18	0.00	0.00	290.29	

15-1 - 11/15/2022: Wheat, silage, soft dough

Field name: 15-1

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	
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	100.61	14.04	169.07	756.87	1,200,000.00 gal
MID CANAL	Surface water	2.04	0.00	0.00	34.76	10,536,960.00 gal
Application event totals		102.65	14.04	169.07	791.64	

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15-1 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	135.27	14.01	208.09	978.11    1,260,000.00 gal
MID CANAL	Surface water	2.21	0.00	0.00	37.60    11,397,120.00 gal
Application event totals		137.48	14.01	208.09	1,015.71

15-1 - 06/16/2023: Corn, silage

Field name: 15-1

Crop: Corn, silage

Plant date: 06/16/2023

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)
15-1 Reservoir	Ground water	2.82	0.00	0.00	85.38    9,360,000.00 gal
Application event totals		2.82	0.00	0.00	85.38
06/16/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00
Application event totals		14.08	0.00	0.00	0.00
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
15-1 Reservoir	Ground water	2.20	0.00	0.00	66.77    7,320,000.00 gal
Application event totals		2.20	0.00	0.00	66.77

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15-1 - 06/16/2023: Corn, silage

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
Wastewater	Process wastewater	137.01	10.02	183.19	910.58	1,380,000.00 gal
15-1 Reservoir	Ground water	1.62	0.00	0.00	49.25	5,400,000.00 gal
Application event totals		138.64	10.02	183.19	959.83	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15-1 Reservoir	Ground water	2.06	0.00	0.00	62.39	6,840,000.00 gal
Application event totals		2.06	0.00	0.00	62.39	
08/14/2023	Foliar	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 15-1	Ground water	7.00	0.00	0.00	304.57	5,112,000.00 gal
Application event totals		7.00	0.00	0.00	304.57	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	160.84	11.76	215.04	1,068.94	1,620,000.00 gal
IW 15-1	Ground water	7.20	0.00	0.00	313.15	5,256,000.00 gal
Application event totals		168.04	11.76	215.04	1,382.09	

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15-1 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/24/2023	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
IW 15-1	Ground water	3.35	0.00	0.00	145.85	2,448,000.00 gal
15-1 Reservoir	Ground water	1.23	0.00	0.00	37.21	4,080,000.00 gal
Application event totals		4.58	0.00	0.00	183.07	

15-3 - 10/29/2022: Rye Grass Silage

Field name: 15-3

Crop: Rye Grass Silage Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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	141.17	19.70	237.24	1,062.01	3,720,000.00 gal
MID CANAL	Surface water	1.47	0.00	0.00	25.05	16,773,120.00 gal
Application event totals		142.64	19.70	237.24	1,087.06	
03/21/2023	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	154.83	21.61	260.20	1,164.79	4,080,000.00 gal
MID CANAL	Surface water	1.61	0.00	0.00	27.30	18,278,400.00 gal
Application event totals		156.43	21.61	260.20	1,192.08	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.17	0.00	0.00	19.91	13,332,480.00 gal
Application event totals		1.17	0.00	0.00	19.91	

15-3 - 07/08/2023: Corn, silage

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15-3 - 07/08/2023: Corn, silage

Field name: 15-3

Crop: Corn, silage

Plant date: 07/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	134.12	13.89	206.32	969.78	2,760,000.00 gal
MID CANAL	Surface water	1.52	0.00	0.00	25.85	17,310,720.00 gal
Application event totals		135.64	13.89	206.32	995.63	
07/08/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
MID CANAL	Surface water	1.38	0.00	0.00	23.44	15,697,920.00 gal
Application event totals		1.38	0.00	0.00	23.44	
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
Wastewater	Process wastewater	102.46	7.49	136.99	680.95	2,280,000.00 gal
MID CANAL	Surface water	1.26	0.00	0.00	21.35	14,300,160.00 gal
Application event totals		103.72	7.49	136.99	702.31	
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
IW 15-3	Ground water	7.84	0.00	0.00	296.16	5,187,000.00 gal
MID CANAL	Surface water	0.90	0.00	0.00	15.25	10,214,400.00 gal
Application event totals		8.73	0.00	0.00	311.42	

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15-3 - 07/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/10/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
09/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	94.37	6.90	126.18	627.19	2,100,000.00 gal
IW 15-3	Ground water	7.18	0.00	0.00	271.22	4,750,200.00 gal
MID CANAL	Surface water	0.82	0.00	0.00	13.97	9,354,240.00 gal
Application event totals		102.37	6.90	126.18	912.39	
10/03/2023	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
IW 15-3	Ground water	6.43	0.00	0.00	243.17	4,258,800.00 gal
MID CANAL	Surface water	0.74	0.00	0.00	12.52	8,386,560.00 gal
Application event totals		7.17	0.00	0.00	255.69	
10/18/2023	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
IW 15-3	Ground water	6.85	0.00	0.00	258.75	4,531,800.00 gal
MID CANAL	Surface water	0.78	0.00	0.00	13.33	8,924,160.00 gal
Application event totals		7.63	0.00	0.00	272.08	

15-4 - 10/30/2022: Wheat, silage, soft dough

Field name: 15-4

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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15-4 - 10/30/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/19/2022	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	180.32	21.62	220.29	1,062.29	5,100,000.00 gal
MID CANAL	Surface water	1.52	0.00	0.00	25.87	22,794,240.00 gal
Application event totals		181.84	21.62	220.29	1,088.15	
03/07/2023	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	119.40	16.67	200.66	898.26	4,140,000.00 gal
MID CANAL	Surface water	1.24	0.00	0.00	21.11	18,600,960.00 gal
Application event totals		120.64	16.67	200.66	919.37	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.37	0.00	0.00	23.31	20,536,320.00 gal
Application event totals		1.37	0.00	0.00	23.31	

15-4 - 06/11/2023: Corn, silage

Field name:	15-4	Plant date:	06/11/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15-1 Reservoir	Ground water	2.36	0.00	0.00	71.54	22,800,000.00 gal
Application event totals		2.36	0.00	0.00	71.54	

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15-4 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/11/2023	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	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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	192.78	19.97	296.56	1,393.95	5,220,000.00 gal
15-1 Reservoir	Ground water	2.16	0.00	0.00	65.52	20,880,000.00 gal
Application event totals		194.94	19.97	296.56	1,459.46	
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
IW 15-1	Ground water	3.60	0.00	0.00	156.42	7,632,000.00 gal
15-1 Reservoir	Ground water	1.32	0.00	0.00	39.91	12,720,000.00 gal
Application event totals		4.91	0.00	0.00	196.33	
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
Wastewater	Process wastewater	120.91	8.84	161.65	803.52	3,540,000.00 gal
IW 15-1	Ground water	4.00	0.00	0.00	174.13	8,496,000.00 gal
15-1 Reservoir	Ground water	1.47	0.00	0.00	44.43	14,160,000.00 gal
Application event totals		126.38	8.84	161.65	1,022.08	
08/12/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	

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15-4 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 15-5	Ground water	14.40	0.00	0.00	289.04	4,731,720.00 gal
15-1 Reservoir	Ground water	1.63	0.00	0.00	49.32	15,720,000.00 gal
Application event totals		16.03	0.00	0.00	338.36	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 15-5	Ground water	14.07	0.00	0.00	282.42	4,623,360.00 gal
15-1 Reservoir	Ground water	1.59	0.00	0.00	48.20	15,360,000.00 gal
Application event totals		15.66	0.00	0.00	330.62	

15-5A - 11/15/2022: Wheat, silage, soft dough

Field name: 15-5A

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	
02/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	134.53	18.78	226.08	1,012.09	3,060,000.00 gal
15-1 Reservoir	Ground water	2.92	0.00	0.00	88.39	18,480,000.00 gal
Application event totals		137.44	18.78	226.08	1,100.48	
03/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	118.70	16.57	199.49	893.02	2,700,000.00 gal
15-1 Reservoir	Ground water	2.57	0.00	0.00	78.06	16,320,000.00 gal
Application event totals		121.28	16.57	199.49	971.08	

15-5A - 06/21/2023: Corn, silage

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15-5A - 06/21/2023: Corn, silage

Field name: 15-5A

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15-1 Reservoir	Ground water	2.90	0.00	0.00	87.82	18,360,000.00 gal
Application event totals		2.90	0.00	0.00	87.82	
06/21/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	168.69	12.33	225.53	1,121.08	3,240,000.00 gal
15-1 Reservoir	Ground water	2.54	0.00	0.00	76.91	16,080,000.00 gal
Application event totals		171.23	12.33	225.53	1,197.99	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15-1 Reservoir	Ground water	2.14	0.00	0.00	64.86	13,560,000.00 gal
Application event totals		2.14	0.00	0.00	64.86	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15-1 Reservoir	Ground water	2.29	0.00	0.00	69.45	14,520,000.00 gal
Application event totals		2.29	0.00	0.00	69.45	

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15-5A - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/24/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	106.21	7.76	142.00	705.86	2,040,000.00 gal
IW 15-5	Ground water	14.08	0.00	0.00	282.53	3,034,080.00 gal
15-1 Reservoir	Ground water	1.59	0.00	0.00	48.21	10,080,000.00 gal
Application event totals		121.88	7.76	142.00	1,036.61	
09/24/2023	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
IW 15-5	Ground water	14.92	0.00	0.00	299.34	3,214,680.00 gal
15-1 Reservoir	Ground water	1.68	0.00	0.00	51.08	10,680,000.00 gal
Application event totals		16.60	0.00	0.00	350.43	

15-5B - 11/01/2022: Wheat, silage, soft dough

Field name: 15-5B

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	
02/01/2023	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	149.35	20.85	250.99	1,123.59	3,480,000.00 gal
15-1 Reservoir	Ground water	2.66	0.00	0.00	80.68	17,280,000.00 gal
Application event totals		152.01	20.85	250.99	1,204.28	

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15-5B - 11/01/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/26/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	131.33	18.33	220.70	987.99
15-1 Reservoir	Ground water	2.81	0.00	0.00	85.17
Application event totals		134.14	18.33	220.70	1,073.16

15-5B - 06/06/2023: Corn, silage

Field name: 15-5B

Crop: Corn, silage

Plant date: 06/06/2023

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)
15-1 Reservoir	Ground water	2.92	0.00	0.00	88.53
Application event totals		2.92	0.00	0.00	88.53
06/06/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00
Application event totals		14.08	0.00	0.00	0.00
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	151.68	15.71	233.34	1,096.77
15-1 Reservoir	Ground water	2.57	0.00	0.00	77.88
Application event totals		154.25	15.71	233.34	1,174.65

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15-5B - 06/06/2023: 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
15-1 Reservoir	Ground water	2.18	0.00	0.00	66.12	14,160,000.00 gal
Application event totals		2.18	0.00	0.00	66.12	
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
15-1 Reservoir	Ground water	2.33	0.00	0.00	70.60	15,120,000.00 gal
Application event totals		2.33	0.00	0.00	70.60	
08/03/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	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
Wastewater	Process wastewater	179.92	13.15	240.55	1,195.72	3,540,000.00 gal
IW 15-5	Ground water	14.56	0.00	0.00	292.22	3,214,680.00 gal
15-1 Reservoir	Ground water	1.64	0.00	0.00	49.87	10,680,000.00 gal
Application event totals		196.13	13.15	240.55	1,537.80	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 15-5	Ground water	15.38	0.00	0.00	308.63	3,395,280.00 gal
15-1 Reservoir	Ground water	1.74	0.00	0.00	52.67	11,280,000.00 gal
Application event totals		17.12	0.00	0.00	361.30	

15-6 - 11/20/2022: Alfalfa, hay

Field name: 15-6

Crop: Alfalfa, hay

Plant date: 11/20/2022

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15-6 - 11/20/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/18/2023	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
MID CANAL	Surface water	1.16	0.00	0.00	19.74	14,192,640.00 gal
Application event totals		1.16	0.00	0.00	19.74	
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
MID CANAL	Surface water	1.05	0.00	0.00	17.80	12,794,880.00 gal
Application event totals		1.05	0.00	0.00	17.80	
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
MID CANAL	Surface water	1.16	0.00	0.00	19.74	14,192,640.00 gal
Application event totals		1.16	0.00	0.00	19.74	
05/22/2023	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
Drying Solids	Separator solids	261.13	111.75	468.04	0.00	1,188.00 ton
Application event totals		261.13	111.75	468.04	0.00	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.29	0.00	0.00	21.98	15,805,440.00 gal
Application event totals		1.29	0.00	0.00	21.98	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 15-6	Ground water	7.11	0.00	0.00	169.41	3,383,520.00 gal
MID CANAL	Surface water	0.93	0.00	0.00	15.85	11,397,120.00 gal
Application event totals		8.05	0.00	0.00	185.26	

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15-6 - 11/20/2022: Alfalfa, hay

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
IW 15-6	Ground water	6.24	0.00	0.00	148.64	2,968,560.00 gal
MID CANAL	Surface water	0.82	0.00	0.00	13.91	9,999,360.00 gal
Application event totals		7.06	0.00	0.00	162.54	
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
IW 15-6	Ground water	7.25	0.00	0.00	172.61	3,447,360.00 gal
MID CANAL	Surface water	0.95	0.00	0.00	16.15	11,612,160.00 gal
Application event totals		8.20	0.00	0.00	188.76	
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
IW 15-6	Ground water	6.78	0.00	0.00	161.42	3,223,920.00 gal
MID CANAL	Surface water	0.89	0.00	0.00	15.10	10,859,520.00 gal
Application event totals		7.67	0.00	0.00	176.53	
10/19/2023	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
IW 15-6	Ground water	6.58	0.00	0.00	156.63	3,128,160.00 gal
MID CANAL	Surface water	0.86	0.00	0.00	14.66	10,536,960.00 gal
Application event totals		7.44	0.00	0.00	171.28	

15-7 - 10/30/2022: Rye Grass Silage

Field name: 15-7

Crop: Rye Grass Silage

Plant date: 10/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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## 15-7 - 10/30/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/27/2023	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
Wastewater	Process wastewater	131.94	18.42	221.74	992.64	3,660,000.00 gal
MID CANAL	Surface water	1.63	0.00	0.00	27.76	19,568,640.00 gal
Application event totals		133.58	18.42	221.74	1,020.40	
03/21/2023	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
MID CANAL	Surface water	1.24	0.00	0.00	21.05	14,837,760.00 gal
Application event totals		1.24	0.00	0.00	21.05	
04/27/2023	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
Wastewater	Process wastewater	152.34	15.78	234.35	1,101.54	3,300,000.00 gal
MID CANAL	Surface water	1.72	0.00	0.00	29.29	20,643,840.00 gal
Application event totals		154.07	15.78	234.35	1,130.83	

## 15-7 - 07/04/2023: Corn, silage

Field name: 15-7

Crop: Corn, silage

Plant date: 07/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/07/2023	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
MID CANAL	Surface water	1.53	0.00	0.00	25.93	18,278,400.00 gal
Application event totals		1.53	0.00	0.00	25.93	

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15-7 - 07/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.69	0.00	0.00	28.68	20,213,760.00 gal
Application event totals		1.69	0.00	0.00	28.68	
07/04/2023	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	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
Wastewater	Process wastewater	171.73	17.79	264.18	1,241.74	3,720,000.00 gal
MID CANAL	Surface water	1.38	0.00	0.00	23.49	16,558,080.00 gal
Application event totals		173.11	17.79	264.18	1,265.23	
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
MID CANAL	Surface water	1.44	0.00	0.00	24.41	17,203,200.00 gal
Application event totals		1.44	0.00	0.00	24.41	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	143.45	10.49	191.79	953.33	3,360,000.00 gal
MID CANAL	Surface water	1.29	0.00	0.00	21.96	15,482,880.00 gal
Application event totals		144.74	10.49	191.79	975.30	
09/06/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	

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15-7 - 07/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/23/2023	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
MID CANAL	Surface water	1.18	0.00	0.00	20.13	14,192,640.00 gal
Application event totals		1.18	0.00	0.00	20.13	
10/11/2023	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
MID CANAL	Surface water	1.00	0.00	0.00	16.93	11,934,720.00 gal
Application event totals		1.00	0.00	0.00	16.93	

16-1 - 10/26/2020: Alfalfa, hay

Field name: 16-1

Crop: Alfalfa, hay

Plant date: 10/26/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/21/2023	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
MID CANAL	Surface water	1.30	0.00	0.00	22.10	15,267,840.00 gal
Application event totals		1.30	0.00	0.00	22.10	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.15	0.00	0.00	19.61	13,547,520.00 gal
Application event totals		1.15	0.00	0.00	19.61	
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
Drying Solids	Separator solids	246.62	105.55	442.04	0.00	1,078.00 ton
Application event totals		246.62	105.55	442.04	0.00	

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16-1 - 10/26/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.06	0.00	0.00	18.05	12,472,320.00 gal
Application event totals		1.06	0.00	0.00	18.05	
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
IW 16-1	Ground water	0.70	0.00	0.00	52.80	8,268,000.00 gal
MID CANAL	Surface water	0.49	0.00	0.00	8.25	5,698,560.00 gal
Application event totals		1.19	0.00	0.00	61.05	
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
IW 16-1	Ground water	0.73	0.00	0.00	54.80	8,580,000.00 gal
MID CANAL	Surface water	0.50	0.00	0.00	8.56	5,913,600.00 gal
Application event totals		1.23	0.00	0.00	63.36	
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
IW 16-1	Ground water	1.05	0.00	0.00	78.71	12,324,000.00 gal
Application event totals		1.05	0.00	0.00	78.71	
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
IW 16-1	Ground water	1.13	0.00	0.00	84.68	13,260,000.00 gal
Application event totals		1.13	0.00	0.00	84.68	
09/24/2023	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
IW 16-1	Ground water	1.21	0.00	0.00	90.66	14,196,000.00 gal
Application event totals		1.21	0.00	0.00	90.66	

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16-1 - 10/26/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IW 16-1	Ground water	1.02	0.00	0.00	76.71
Application event totals		1.02	0.00	0.00	76.71
					12,012,000.00 gal

16-2 - 11/30/2020: Alfalfa, hay

Field name: 16-2

Crop: Alfalfa, hay

Plant date: 11/30/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID CANAL	Surface water	1.26	0.00	0.00	21.49
Application event totals		1.26	0.00	0.00	21.49
05/19/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Drying Solids	Separator solids	269.04	115.14	482.22	0.00
Application event totals		269.04	115.14	482.22	0.00
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID CANAL	Surface water	1.43	0.00	0.00	24.27
Application event totals		1.43	0.00	0.00	24.27
06/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID CANAL	Surface water	1.31	0.00	0.00	22.31
Application event totals		1.31	0.00	0.00	22.31

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16-2 - 11/30/2020: Alfalfa, hay

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
MID CANAL	Surface water	1.16	0.00	0.00	19.68	12,902,400.00 gal
Application event totals		1.16	0.00	0.00	19.68	
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
IW 16-2	Ground water	2.29	0.00	0.00	129.78	4,548,180.00 gal
MID CANAL	Surface water	0.88	0.00	0.00	14.93	9,784,320.00 gal
Application event totals		3.16	0.00	0.00	144.71	
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
IW 16-2	Ground water	2.16	0.00	0.00	122.65	4,298,280.00 gal
MID CANAL	Surface water	0.83	0.00	0.00	14.11	9,246,720.00 gal
Application event totals		2.99	0.00	0.00	136.75	
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
IW 16-2	Ground water	2.39	0.00	0.00	135.48	4,748,100.00 gal
MID CANAL	Surface water	0.92	0.00	0.00	15.58	10,214,400.00 gal
Application event totals		3.30	0.00	0.00	151.07	
10/27/2023	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
IW 16-2	Ground water	4.60	0.00	0.00	260.99	9,146,340.00 gal
Application event totals		4.60	0.00	0.00	260.99	

16-3 - 10/27/2022: Wheat, silage, soft dough

Field name: 16-3

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

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16-3 - 10/27/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/13/2023	Surface (irrigation)	No precipitation	No precipitation		Steady rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	172.58	24.09	290.03	1,298.36	4,500,000.00 gal
MID CANAL	Surface water	2.16	0.00	0.00	36.67	24,299,520.00 gal
Application event totals		174.74	24.09	290.03	1,335.03	
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
Wastewater	Process wastewater	147.27	20.56	247.49	1,107.93	3,840,000.00 gal
MID CANAL	Surface water	1.83	0.00	0.00	31.16	20,643,840.00 gal
Application event totals		149.10	20.56	247.49	1,139.09	

16-3 - 05/22/2023: Corn, silage

Field name: 16-3

Crop: Corn, silage

Plant date: 05/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/02/2023	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
MID CANAL	Surface water	1.61	0.00	0.00	27.42	18,170,880.00 gal
Application event totals		1.61	0.00	0.00	27.42	
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
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	

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16-3 - 05/22/2023: 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
Wastewater	Process wastewater	141.44	14.65	217.58	1,022.71	2,880,000.00 gal
MID CANAL	Surface water	1.37	0.00	0.00	23.37	15,482,880.00 gal
Application event totals		142.81	14.65	217.58	1,046.07	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.15	0.00	0.00	19.63	13,009,920.00 gal
Application event totals		1.15	0.00	0.00	19.63	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	106.28	7.77	142.09	706.31	2,340,000.00 gal
IW 16-1	Ground water	0.82	0.00	0.00	61.28	9,204,000.00 gal
MID CANAL	Surface water	0.56	0.00	0.00	9.57	6,343,680.00 gal
Application event totals		107.66	7.77	142.09	777.16	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16-1	Ground water	0.66	0.00	0.00	49.86	7,488,000.00 gal
MID CANAL	Surface water	0.46	0.00	0.00	7.79	5,160,960.00 gal
Application event totals		1.12	0.00	0.00	57.65	
07/25/2023	Foliar	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	

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## 16-3 - 05/22/2023: Corn, silage

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
Wastewater	Process wastewater	103.55	7.57	138.45	688.20	2,280,000.00 gal
IW 16-5	Ground water	7.10	0.00	0.00	321.17	14,187,300.00 gal
Application event totals		110.66	7.57	138.45	1,009.37	
08/31/2023	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
IW 16-5	Ground water	6.28	0.00	0.00	283.98	12,544,560.00 gal
Application event totals		6.28	0.00	0.00	283.98	

## 16-4 - 11/06/2020: Alfalfa, hay

Field name: 16-4

Crop:	Alfalfa, hay	Plant date: 11/06/2020				
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.20	0.00	0.00	20.45	13,117,440.00 gal
Application event totals		1.20	0.00	0.00	20.45	
05/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.39	0.00	0.00	23.63	15,160,320.00 gal
Application event totals		1.39	0.00	0.00	23.63	
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
Drying Solids	Separator solids	243.91	104.39	437.18	0.00	990.00 ton
Application event totals		243.91	104.39	437.18	0.00	

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16-4 - 11/06/2020: Alfalfa, hay

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
MID CANAL	Surface water	1.18	0.00	0.00	20.11	12,902,400.00 gal
Application event totals		1.18	0.00	0.00	20.11	
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
IW 16-2	Ground water	2.36	0.00	0.00	134.09	4,598,160.00 gal
MID CANAL	Surface water	0.91	0.00	0.00	15.42	9,891,840.00 gal
Application event totals		3.27	0.00	0.00	149.51	
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
IW 16-2	Ground water	2.08	0.00	0.00	118.06	4,048,380.00 gal
MID CANAL	Surface water	0.80	0.00	0.00	13.58	8,709,120.00 gal
Application event totals		2.88	0.00	0.00	131.63	
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
IW 16-2	Ground water	2.59	0.00	0.00	147.21	5,047,980.00 gal
MID CANAL	Surface water	1.00	0.00	0.00	16.93	10,859,520.00 gal
Application event totals		3.59	0.00	0.00	164.14	
09/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16-2	Ground water	1.92	0.00	0.00	109.31	3,748,500.00 gal
IW 16-5	Ground water	5.79	0.00	0.00	261.92	11,200,500.00 gal
Application event totals		7.72	0.00	0.00	371.23	

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16-4 - 11/06/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/23/2023	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
IW 16-2	Ground water	1.62	0.00	0.00	91.82	3,148,740.00 gal
IW 16-5	Ground water	4.87	0.00	0.00	220.01	9,408,420.00 gal
Application event totals		6.48	0.00	0.00	311.83	

16-5 - 11/12/2022: Alfalfa, hay

Field name: 16-5

Crop: Alfalfa, hay

Plant date: 11/12/2022

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
MID CANAL	Surface water	1.59	0.00	0.00	27.02	19,998,720.00 gal
Application event totals		1.59	0.00	0.00	27.02	
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
MID CANAL	Surface water	1.30	0.00	0.00	22.08	16,343,040.00 gal
Application event totals		1.30	0.00	0.00	22.08	
05/25/2023	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
Drying Solids	Separator solids	224.20	95.95	401.85	0.00	1,050.00 ton
Application event totals		224.20	95.95	401.85	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
MID CANAL	Surface water	1.18	0.00	0.00	20.05	14,837,760.00 gal
Application event totals		1.18	0.00	0.00	20.05	

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16-5 - 11/12/2022: Alfalfa, hay

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
MID CANAL	Surface water	1.25	0.00	0.00	21.21	15,697,920.00 gal
Application event totals		1.25	0.00	0.00	21.21	
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
IW 16-5	Ground water	6.83	0.00	0.00	308.71	15,232,680.00 gal
Application event totals		6.83	0.00	0.00	308.71	
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
IW 16-5	Ground water	7.77	0.00	0.00	351.08	17,323,440.00 gal
Application event totals		7.77	0.00	0.00	351.08	
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
IW 16-5	Ground water	6.36	0.00	0.00	287.53	14,187,300.00 gal
Application event totals		6.36	0.00	0.00	287.53	
10/24/2023	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
IW 16-5	Ground water	5.76	0.00	0.00	260.29	12,843,240.00 gal
Application event totals		5.76	0.00	0.00	260.29	

16-6 - 11/16/2020: Alfalfa, hay

Field name: 16-6

Crop: Alfalfa, hay

Plant date: 11/16/2020

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

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16-6 - 11/16/2020: Alfalfa, hay

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
MID CANAL	Surface water	1.49	0.00	0.00	25.37	16,988,160.00 gal
Application event totals		1.49	0.00	0.00	25.37	
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
MID CANAL	Surface water	1.25	0.00	0.00	21.19	14,192,640.00 gal
Application event totals		1.25	0.00	0.00	21.19	
05/26/2023	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
Drying Solids	Separator solids	264.32	113.12	473.76	0.00	1,120.00 ton
Application event totals		264.32	113.12	473.76	0.00	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.20	0.00	0.00	20.39	13,655,040.00 gal
Application event totals		1.20	0.00	0.00	20.39	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16-5	Ground water	4.66	0.00	0.00	210.75	9,408,420.00 gal
MID CANAL	Surface water	0.60	0.00	0.00	10.12	6,773,760.00 gal
Application event totals		5.26	0.00	0.00	220.86	
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
IW 16-5	Ground water	4.00	0.00	0.00	180.64	8,064,360.00 gal
MID CANAL	Surface water	0.51	0.00	0.00	8.67	5,806,080.00 gal
Application event totals		4.51	0.00	0.00	189.31	

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16-6 - 11/16/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 16-5	Ground water	8.06	0.00	0.00	364.62	16,278,060.00 gal
Application event totals		8.06	0.00	0.00	364.62	
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
IW 16-5	Ground water	6.73	0.00	0.00	304.41	13,589,940.00 gal
Application event totals		6.73	0.00	0.00	304.41	
10/27/2023	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
IW 16-5	Ground water	5.55	0.00	0.00	250.89	11,200,500.00 gal
Application event totals		5.55	0.00	0.00	250.89	

CVW 10 - 11/03/2022: Wheat, silage, soft dough

Field name: CVW 10

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	
10/21/2022	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	272.88	89.10	393.16	0.00	281.00 ton
Application event totals		272.88	89.10	393.16	0.00	
01/11/2023	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
MID CANAL	Surface water	1.59	0.00	0.00	27.04	8,386,560.00 gal
Application event totals		1.59	0.00	0.00	27.04	

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CVW 10 - 11/03/2022: 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	Steady rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.24	0.00	0.00	21.15	6,558,720.00 gal
Application event totals		1.24	0.00	0.00	21.15	
03/17/2023	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
MID CANAL	Surface water	1.49	0.00	0.00	25.31	7,848,960.00 gal
Application event totals		1.49	0.00	0.00	25.31	

CVW 10 - 06/12/2023: Corn, silage

Field name: CVW 10

Crop: Corn, silage

Plant date: 06/12/2023

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
Chicken Solids	Scraped material	287.71	62.06	180.52	0.00	315.00 ton
Application event totals		287.71	62.06	180.52	0.00	
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
IW 7 (W)	Ground water	3.03	0.00	0.00	250.79	2,856,000.00 gal
IW 11 (W)	Ground water	8.55	0.00	0.00	442.45	5,071,500.00 gal
Application event totals		11.58	0.00	0.00	693.25	
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
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	

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CVW 10 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 7 (W)	Ground water	2.63	0.00	0.00	217.83	2,480,640.00 gal
IW 11 (W)	Ground water	7.43	0.00	0.00	384.30	4,404,960.00 gal
Application event totals		10.06	0.00	0.00	602.13	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 7 (W)	Ground water	3.15	0.00	0.00	260.82	2,970,240.00 gal
IW 11 (W)	Ground water	8.89	0.00	0.00	460.15	5,274,360.00 gal
Application event totals		12.05	0.00	0.00	720.98	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 7 (W)	Ground water	2.03	0.00	0.00	167.67	1,909,440.00 gal
IW 11 (W)	Ground water	5.72	0.00	0.00	295.81	3,390,660.00 gal
Application event totals		7.74	0.00	0.00	463.48	
08/11/2023	Foliar	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 7 (W)	Ground water	2.76	0.00	0.00	227.86	2,594,880.00 gal
IW 11 (W)	Ground water	7.77	0.00	0.00	402.00	4,607,820.00 gal
Application event totals		10.53	0.00	0.00	629.86	

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CVW 10 - 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
IW 7 (W)	Ground water	2.27	0.00	0.00	187.74	2,137,920.00 gal
IW 11 (W)	Ground water	6.40	0.00	0.00	331.21	3,796,380.00 gal
Application event totals		8.67	0.00	0.00	518.94	
09/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 7 (W)	Ground water	1.94	0.00	0.00	160.51	1,827,840.00 gal
IW 11 (W)	Ground water	5.47	0.00	0.00	283.17	3,245,760.00 gal
Application event totals		7.41	0.00	0.00	443.68	

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

Field name: CVW 12

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	
10/29/2022	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
Corral Solids	Corral solids	260.79	85.16	375.75	0.00	354.00 ton
Application event totals		260.79	85.16	375.75	0.00	
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
MID CANAL	Surface water	1.41	0.00	0.00	23.93	9,784,320.00 gal
Application event totals		1.41	0.00	0.00	23.93	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
MID CANAL	Surface water	1.21	0.00	0.00	20.51	8,386,560.00 gal
Application event totals		1.21	0.00	0.00	20.51	
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
MID CANAL	Surface water	1.36	0.00	0.00	23.14	9,461,760.00 gal
Application event totals		1.36	0.00	0.00	23.14	

CVW 12 - 06/15/2023: Corn, silage

Field name: CVW 12

Crop: Corn, silage

Plant date: 06/15/2023

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	289.35	126.04	374.56	0.00	715.00 ton
Application event totals		289.35	126.04	374.56	0.00	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.53	0.00	0.00	26.04	10,644,480.00 gal
Application event totals		1.53	0.00	0.00	26.04	
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
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	

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CVW 12 - 06/15/2023: 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
IW 5 (W)	Ground water	3.61	0.00	0.00	190.98	6,116,880.00 gal
Application event totals		3.61	0.00	0.00	190.98	
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
IW 5 (W)	Ground water	1.72	0.00	0.00	91.15	2,919,420.00 gal
IW 12B (W)	Ground water	14.22	0.00	0.00	938.55	6,676,740.00 gal
Application event totals		15.94	0.00	0.00	1,029.70	
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
IW 5 (W)	Ground water	1.90	0.00	0.00	100.45	3,217,320.00 gal
IW 12B (W)	Ground water	15.67	0.00	0.00	1,034.32	7,358,040.00 gal
Application event totals		17.57	0.00	0.00	1,134.77	
08/14/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
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
IW 5 (W)	Ground water	1.65	0.00	0.00	87.43	2,800,260.00 gal
IW 12B (W)	Ground water	13.64	0.00	0.00	900.24	6,404,220.00 gal
Application event totals		15.29	0.00	0.00	987.67	

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CVW 12 - 06/15/2023: 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
IW 5 (W)	Ground water	1.32	0.00	0.00	70.07	2,244,180.00 gal
IW 12B (W)	Ground water	10.93	0.00	0.00	721.47	5,132,460.00 gal
Application event totals		12.25	0.00	0.00	791.54	
09/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5 (W)	Ground water	3.00	0.00	0.00	158.74	5,084,160.00 gal
Application event totals		3.00	0.00	0.00	158.74	

CVW 3 - 11/12/2022: Wheat, silage, soft dough

Field name: CVW 3

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	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	216.40	70.66	311.79	0.00	314.00 ton
Application event totals		216.40	70.66	311.79	0.00	
01/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.35	0.00	0.00	22.88	9,999,360.00 gal
Application event totals		1.35	0.00	0.00	22.88	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.07	0.00	0.00	18.21	7,956,480.00 gal
Application event totals		1.07	0.00	0.00	18.21	

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CVW 3 - 11/12/2022: 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)
MID CANAL	Surface water	1.17	0.00	0.00	19.93
Application event totals		1.17	0.00	0.00	19.93
					8,709,120.00 gal

CVW 3 - 06/12/2023: Corn, silage

Field name: CVW 3

Crop: Corn, silage

Plant date: 06/12/2023

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)
Chicken Solids	Scraped material	256.68	55.36	161.06	0.00
Application event totals		256.68	55.36	161.06	0.00
05/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IW 3 (W)	Ground water	6.30	0.00	0.00	459.46
Application event totals		6.30	0.00	0.00	459.46
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)
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00
Application event totals		14.08	0.00	0.00	0.00
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IW 3 (W)	Ground water	6.86	0.00	0.00	500.01
Application event totals		6.86	0.00	0.00	500.01
10,613,820.00 gal					

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CVW 3 - 06/12/2023: Corn, silage

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
IW 3 (W)	Ground water	5.00	0.00	0.00	364.87	7,745,220.00 gal
Application event totals		5.00	0.00	0.00	364.87	
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
IW 3 (W)	Ground water	5.27	0.00	0.00	384.17	8,155,020.00 gal
Application event totals		5.27	0.00	0.00	384.17	
08/11/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	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
IW 3 (W)	Ground water	5.06	0.00	0.00	368.73	7,827,180.00 gal
Application event totals		5.06	0.00	0.00	368.73	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 3 (W)	Ground water	6.67	0.00	0.00	486.49	10,326,960.00 gal
Application event totals		6.67	0.00	0.00	486.49	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 3 (W)	Ground water	4.71	0.00	0.00	343.63	7,294,440.00 gal
Application event totals		4.71	0.00	0.00	343.63	

CVW 4 - 11/22/2022: Wheat, silage, soft dough

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

CVW 4 - 11/22/2022: Wheat, silage, soft dough

Field name: CVW 4

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/11/2022	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	216.69	70.76	312.21	0.00	355.00 ton
Application event totals		216.69	70.76	312.21	0.00	
01/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.32	0.00	0.00	22.44	11,074,560.00 gal
Application event totals		1.32	0.00	0.00	22.44	
02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.08	0.00	0.00	18.30	9,031,680.00 gal
Application event totals		1.08	0.00	0.00	18.30	
03/11/2023	Surface (irrigation)	Light rain	Light rain	Light rain	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.17	0.00	0.00	19.83	9,784,320.00 gal
Application event totals		1.17	0.00	0.00	19.83	

CVW 4 - 06/21/2023: Corn, silage

Field name: CVW 4

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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CVW 4 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	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
Chicken Solids	Scraped material	294.52	63.52	184.80	0.00	513.00 ton
Application event totals		294.52	63.52	184.80	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
IW 3 (W)	Ground water	4.39	0.00	0.00	319.75	7,663,260.00 gal
IW 4 (W)	Ground water	2.36	0.00	0.00	112.33	4,959,240.00 gal
Application event totals		6.74	0.00	0.00	432.08	
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
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
IW 3 (W)	Ground water	3.87	0.00	0.00	282.13	6,761,700.00 gal
IW 4 (W)	Ground water	2.08	0.00	0.00	99.11	4,375,800.00 gal
Application event totals		5.95	0.00	0.00	381.25	
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
IW 3 (W)	Ground water	4.08	0.00	0.00	297.52	7,130,520.00 gal
IW 4 (W)	Ground water	2.19	0.00	0.00	104.52	4,614,480.00 gal
Application event totals		6.28	0.00	0.00	402.04	

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CVW 4 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 3 (W)	Ground water	4.20	0.00	0.00	306.07	7,335,420.00 gal
IW 4 (W)	Ground water	2.26	0.00	0.00	107.52	4,747,080.00 gal
Application event totals		6.46	0.00	0.00	413.60	
08/20/2023	Foliar	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 3 (W)	Ground water	3.75	0.00	0.00	273.58	6,556,800.00 gal
IW 4 (W)	Ground water	2.02	0.00	0.00	96.11	4,243,200.00 gal
Application event totals		5.77	0.00	0.00	369.69	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 3 (W)	Ground water	3.71	0.00	0.00	270.16	6,474,840.00 gal
IW 4 (W)	Ground water	1.99	0.00	0.00	94.91	4,190,160.00 gal
Application event totals		5.70	0.00	0.00	365.07	
09/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 3 (W)	Ground water	3.26	0.00	0.00	237.67	5,696,220.00 gal
IW 4 (W)	Ground water	1.75	0.00	0.00	83.50	3,686,280.00 gal
Application event totals		5.01	0.00	0.00	321.17	

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

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

Field name: CVW 5

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	
11/02/2022	Broadcast/incorporate	Light rain	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	227.64	74.33	327.98	0.00	309.00 ton
Application event totals		227.64	74.33	327.98	0.00	
01/06/2023	Surface (irrigation)	Light rain	Steady rain		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.21	0.00	0.00	20.51	8,386,560.00 gal
Application event totals		1.21	0.00	0.00	20.51	
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
MID CANAL	Surface water	1.44	0.00	0.00	24.46	9,999,360.00 gal
Application event totals		1.44	0.00	0.00	24.46	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.25	0.00	0.00	21.30	8,709,120.00 gal
Application event totals		1.25	0.00	0.00	21.30	

CVW 5 - 06/24/2023: Corn, silage

Field name: CVW 5

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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CVW 5 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
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
Chicken Solids	Scraped material	223.11	48.12	139.99	0.00	322.00 ton
Application event totals		223.11	48.12	139.99	0.00	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.45	0.00	0.00	24.72	10,106,880.00 gal
Application event totals		1.45	0.00	0.00	24.72	
06/24/2023	Sidedress	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
IW 5 (W)	Ground water	3.37	0.00	0.00	178.58	5,719,680.00 gal
Application event totals		3.37	0.00	0.00	178.58	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5 (W)	Ground water	1.78	0.00	0.00	94.25	3,018,720.00 gal
IW 12B (W)	Ground water	14.70	0.00	0.00	970.47	6,903,840.00 gal
Application event totals		16.48	0.00	0.00	1,064.72	
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
IW 5 (W)	Ground water	1.66	0.00	0.00	88.05	2,820,120.00 gal
IW 12B (W)	Ground water	13.73	0.00	0.00	906.63	6,449,640.00 gal
Application event totals		15.40	0.00	0.00	994.68	

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CVW 5 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/23/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5 (W)	Ground water	1.79	0.00	0.00	94.87	3,038,580.00 gal
IW 12B (W)	Ground water	14.80	0.00	0.00	976.86	6,949,260.00 gal
Application event totals		16.59	0.00	0.00	1,071.73	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5 (W)	Ground water	2.98	0.00	0.00	157.50	5,044,440.00 gal
Application event totals		2.98	0.00	0.00	157.50	
10/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 5 (W)	Ground water	2.76	0.00	0.00	146.34	4,686,960.00 gal
Application event totals		2.76	0.00	0.00	146.34	

CVW 9 - 11/08/2022: Wheat, silage, soft dough

Field name: CVW 9

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	
10/31/2022	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	222.19	72.55	320.13	0.00	338.00 ton
Application event totals		222.19	72.55	320.13	0.00	

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

## CVW 9 - 11/08/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/08/2023	Surface (irrigation)	Light rain	Steady rain		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.63	0.00	0.00	27.69	12,687,360.00 gal
Application event totals		1.63	0.00	0.00	27.69	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation		Steady rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID CANAL	Surface water	1.46	0.00	0.00	24.87	11,397,120.00 gal
Application event totals		1.46	0.00	0.00	24.87	
03/25/2023	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
MID CANAL	Surface water	1.42	0.00	0.00	24.17	11,074,560.00 gal
Application event totals		1.42	0.00	0.00	24.17	

## CVW 9 - 06/14/2023: Corn, silage

Field name: CVW 9

Crop: Corn, silage

Plant date: 06/14/2023

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	212.33	92.49	274.86	0.00	588.00 ton
Application event totals		212.33	92.49	274.86	0.00	
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
IW 8A (W)	Ground water	11.52	0.00	0.00	530.76	4,824,000.00 gal
IW 9 (W)	Ground water	4.87	0.00	0.00	390.59	6,432,000.00 gal
Application event totals		16.39	0.00	0.00	921.35	

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CVW 9 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/14/2023	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	Liquid commercial fertilizer	14.08	0.00	0.00	0.00	
Application event totals		14.08	0.00	0.00	0.00	
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
IW 8A (W)	Ground water	10.14	0.00	0.00	467.39	4,248,000.00 gal
IW 9 (W)	Ground water	4.29	0.00	0.00	343.95	5,664,000.00 gal
Application event totals		14.43	0.00	0.00	811.34	
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
IW 8A (W)	Ground water	9.37	0.00	0.00	431.74	3,924,000.00 gal
IW 9 (W)	Ground water	3.96	0.00	0.00	317.72	5,232,000.00 gal
Application event totals		13.33	0.00	0.00	749.46	
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
IW 8A (W)	Ground water	11.43	0.00	0.00	526.80	4,788,000.00 gal
IW 9 (W)	Ground water	4.84	0.00	0.00	387.67	6,384,000.00 gal
Application event totals		16.27	0.00	0.00	914.48	
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
IW 8A (W)	Ground water	10.06	0.00	0.00	463.43	4,212,000.00 gal
IW 9 (W)	Ground water	4.25	0.00	0.00	341.04	5,616,000.00 gal
Application event totals		14.31	0.00	0.00	804.46	

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CVW 9 - 06/14/2023: Corn, silage

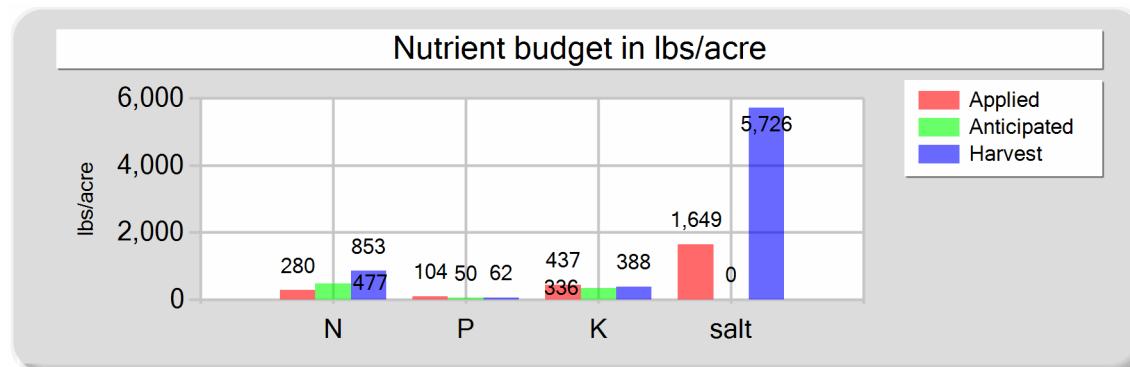
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/14/2023	Foliar	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
28-0-0	Liquid commercial fertilizer	7.49	0.00	0.00	0.00	
Application event totals		7.49	0.00	0.00	0.00	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8A (W)	Ground water	9.28	0.00	0.00	427.78	3,888,000.00 gal
IW 9 (W)	Ground water	3.93	0.00	0.00	314.80	5,184,000.00 gal
Application event totals		13.21	0.00	0.00	742.58	
09/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 8A (W)	Ground water	8.08	0.00	0.00	372.33	3,384,000.00 gal
IW 9 (W)	Ground water	3.42	0.00	0.00	274.00	4,512,000.00 gal
Application event totals		11.50	0.00	0.00	646.32	

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**B. NUTRIENT BUDGET**

11-5 - 10/01/2021: Alfalfa, hay

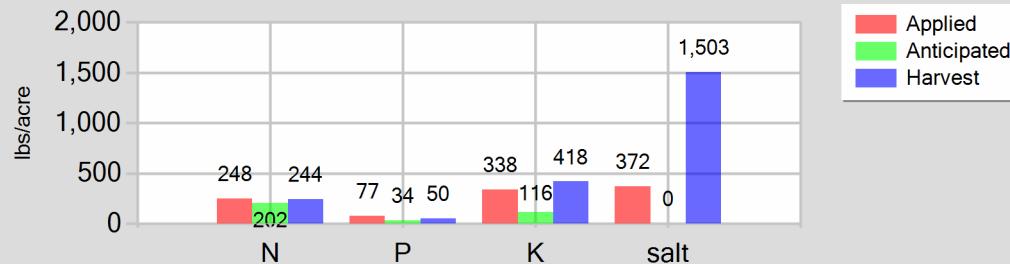
Field name: 11-5      Crop: Alfalfa, hay      Plant date: 10/01/2021

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	108,749,760.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,004.88 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	47.12 inches/acre
Dry manure	243.72	104.30	436.83	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	22.59	0.00	0.00	1,649.06	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	280.31	104.30	436.83	1,649.06	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	852.74	62.28	388.05	5,725.82	
Nutrient balance	-572.43	42.02	48.79	-4,076.76	
Applied to removed ratio	0.33	1.67	1.13	0.29	
Total harvests for the crop					1 harvests

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11-6 - 11/06/2022: Wheat, silage, soft dough

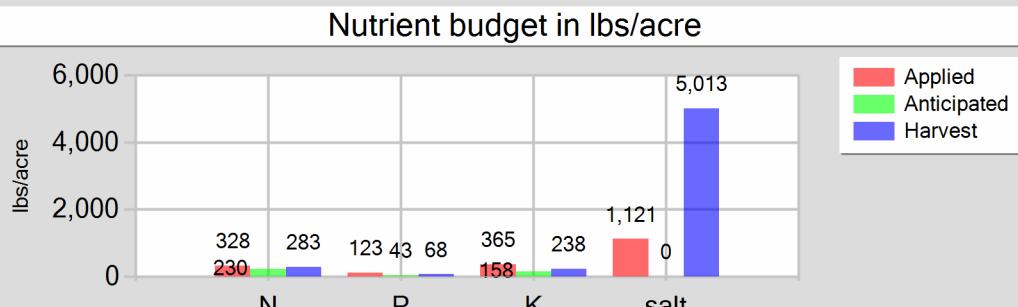
Field name: 11-6Crop: Wheat, silage, soft doughPlant date: 11/06/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	25,650,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	944.61 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.52 inches/acre
Dry manure	234.59	76.60	337.99	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	6.64	0.00	0.00	371.73	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	248.22	76.60	337.99	371.73	Process wastewater applied
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	0.00 gallons
Actual crop nutrient removal	244.33	49.69	418.26	1,503.12	0.00 acre-inches
Nutrient balance	3.89	26.91	-80.26	-1,131.40	0.00 inches/acre
Applied to removed ratio	1.02	1.54	0.81	0.25	Total harvests for the crop
					1 harvests

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11-6 - 06/28/2023: Corn, silage

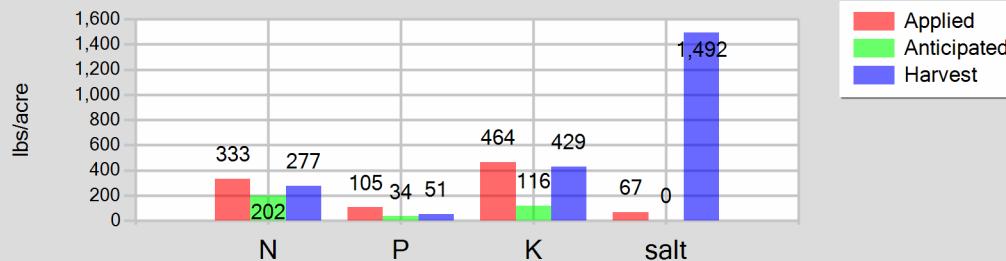
Field name: 11-6      Crop: Corn, silage      Plant date: 06/28/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	59,109,120.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,176.79 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	42.68 inches/acre
Dry manure	281.66	122.69	364.61	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	17.43	0.00	0.00	1,120.72	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	327.67	122.69	364.61	1,120.72	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	283.14	67.95	237.84	5,012.89	
Nutrient balance	44.53	54.74	126.77	-3,892.16	
Applied to removed ratio	1.16	1.81	1.53	0.22	
Total harvests for the crop					1 harvests

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13-10 - 11/02/2022: Wheat, silage, soft dough

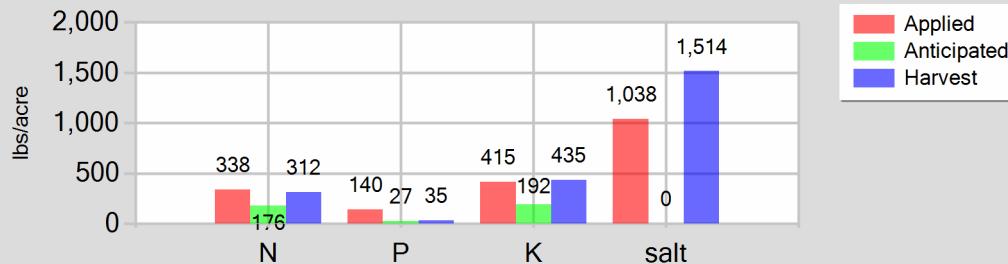
Field name: 13-10Crop: Wheat, silage, soft doughPlant date: 11/02/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	55,050,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,027.31 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.48 inches/acre
Dry manure	321.93	105.12	463.85	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.96	0.00	0.00	67.33	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	332.89	105.12	463.85	67.33	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	276.78	50.68	428.81	1,492.26	
Nutrient balance	56.12	54.44	35.04	-1,424.93	
Applied to removed ratio	1.20	2.07	1.08	0.05	
Total harvests for the crop					1 harvests

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

13-10 - 05/21/2023: Sudangrass, silage

Field name: 13-10Crop: Sudangrass, silagePlant date: 05/21/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	107,857,440.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,972.02 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	34.24 inches/acre
Dry manure	320.51	139.61	414.90	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	10.53	0.00	0.00	1,037.91	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	338.04	139.61	414.90	1,037.91	
Anticipated crop nutrient removal	176.00	27.20	192.00	0.00	
Actual crop nutrient removal	311.91	35.14	434.92	1,514.46	
Nutrient balance	26.13	104.47	-20.02	-476.55	
Applied to removed ratio	1.08	3.97	0.95	0.69	
Total harvests for the crop					1 harvests

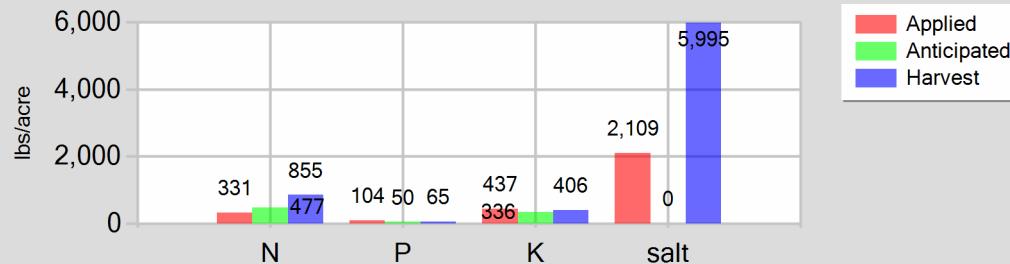
## Annual Report - General Order No. R5-2007-0035

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

13-12 - 10/21/2017: Alfalfa, hay

Field name: 13-12Crop: Alfalfa, hayPlant date: 10/21/2017

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	112,698,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,150.29 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	47.16 inches/acre
Dry manure	243.82	104.35	437.01	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	73.02	0.00	0.00	2,108.97	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	330.83	104.35	437.01	2,108.97	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	855.20	65.21	406.28	5,994.96	
Nutrient balance	-524.37	39.14	30.73	-3,885.99	
Applied to removed ratio	0.39	1.60	1.08	0.35	
Total harvests for the crop					1 harvests

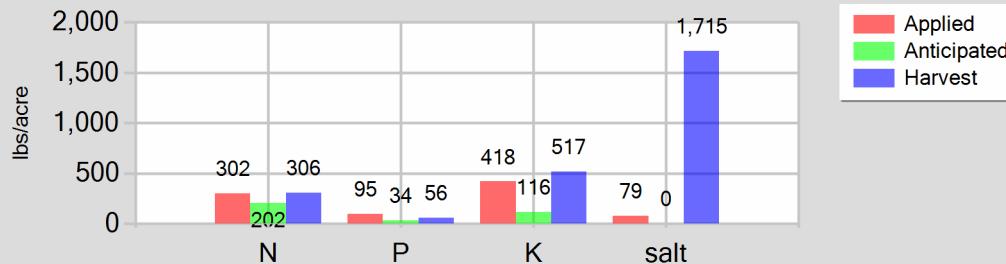
## Annual Report - General Order No. R5-2007-0035

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

13-2 - 11/21/2022: Wheat, silage, soft dough

Field name: 13-2Crop: Wheat, silage, soft doughPlant date: 11/21/2022

Nutrient budget in lbs/acre

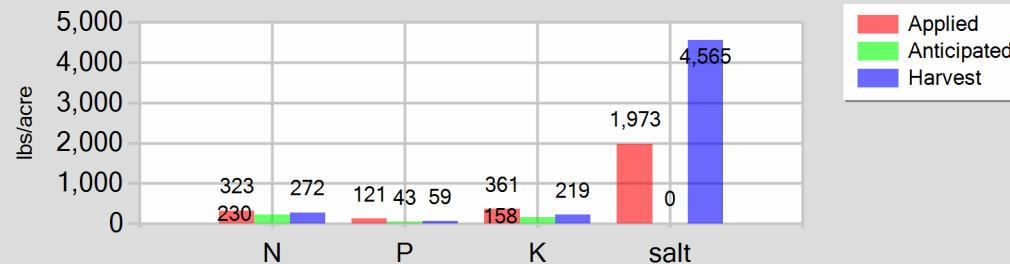


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	50,964,480.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,876.85 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	20.40 inches/acre
Dry manure	290.27	94.78	418.23	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	4.62	0.00	0.00	78.59	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	301.89	94.78	418.23	78.59	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	305.64	56.43	517.24	1,714.60	
Nutrient balance	-3.75	38.36	-99.01	-1,636.01	
Applied to removed ratio	0.99	1.68	0.81	0.05	
Total harvests for the crop					1 harvests

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

13-2 - 06/20/2023: Corn, silage

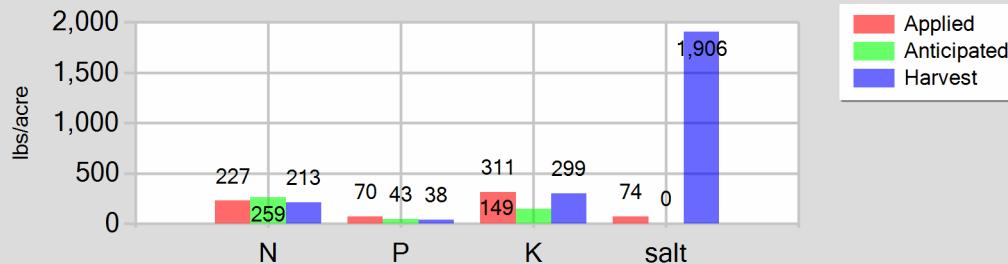
Field name: 13-2Crop: Corn, silagePlant date: 06/20/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	103,508,160.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,811.85 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	41.43 inches/acre
Dry manure	278.60	121.35	360.64	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	16.10	0.00	0.00	1,972.85	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	323.28	121.35	360.64	1,972.85	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	272.18	58.71	218.82	4,565.46	
Nutrient balance	51.09	62.65	141.83	-2,592.61	
Applied to removed ratio	1.19	2.07	1.65	0.43	
Total harvests for the crop					1 harvests

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

13-3 - 10/28/2022: Rye Grass Silage

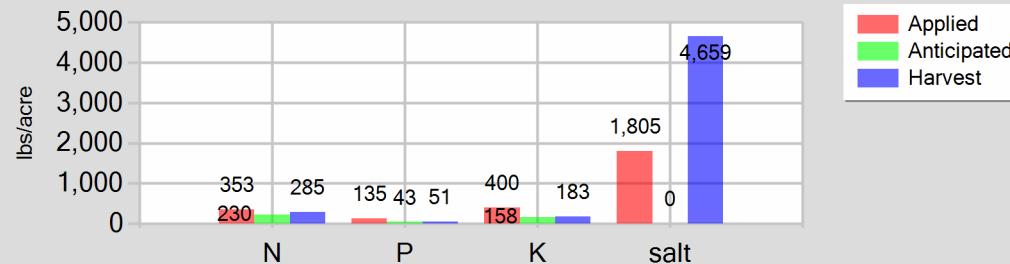
Field name: 13-3Crop: Rye Grass SilagePlant date: 10/28/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	52,362,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,928.32 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.09 inches/acre
Dry manure	215.76	70.45	310.86	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	4.33	0.00	0.00	73.55	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	227.08	70.45	310.86	73.55	Process wastewater applied
Anticipated crop nutrient removal	259.20	43.20	149.40	0.00	0.00 gallons
Actual crop nutrient removal	213.34	38.21	299.31	1,905.72	0.00 acre-inches
Nutrient balance	13.74	32.24	11.55	-1,832.17	0.00 inches/acre
Applied to removed ratio	1.06	1.84	1.04	0.04	Total harvests for the crop
					1 harvests

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

13-3 - 07/03/2023: Corn, silage

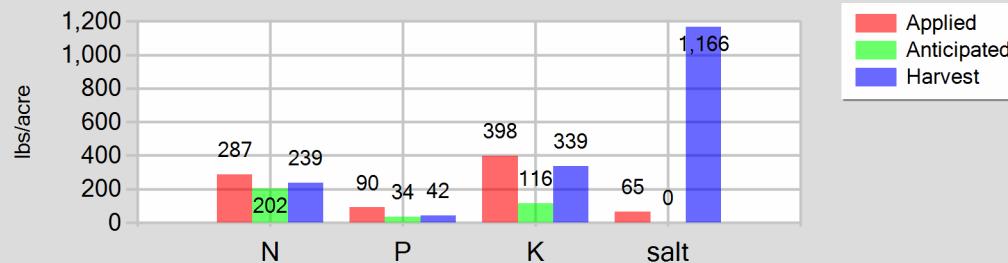
Field name: 13-3      Crop: Corn, silage      Plant date: 07/03/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	112,694,400.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,150.15 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	41.09 inches/acre
Dry manure	309.32	134.73	400.41	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	15.41	0.00	0.00	1,805.08	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	353.30	134.73	400.41	1,805.08	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	284.55	50.81	182.92	4,658.87	
Nutrient balance	68.75	83.92	217.48	-2,853.79	
Applied to removed ratio	1.24	2.65	2.19	0.39	
Total harvests for the crop					1 harvests

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

13-4 - 11/18/2022: Wheat, silage, soft dough

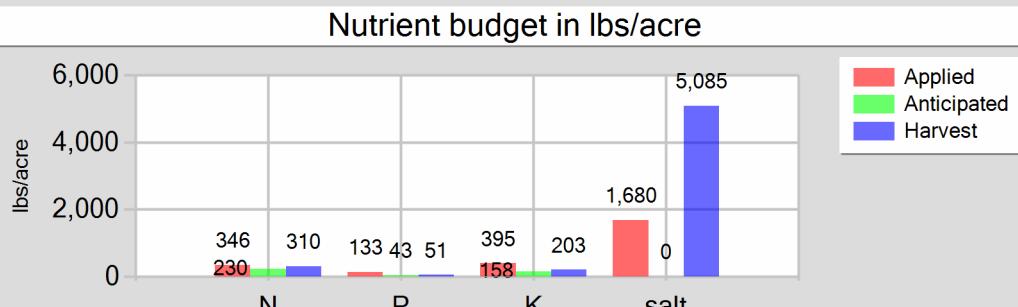
Field name: 13-4Crop: Wheat, silage, soft doughPlant date: 11/18/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	41,825,280.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,540.28 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.93 inches/acre
Dry manure	276.09	90.15	397.79	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.84	0.00	0.00	65.20	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	286.92	90.15	397.79	65.20	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	238.59	41.91	338.54	1,165.64	
Nutrient balance	48.34	48.24	59.25	-1,100.43	
Applied to removed ratio	1.20	2.15	1.18	0.06	
Total harvests for the crop					1 harvests

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

13-4 - 06/29/2023: Corn, silage

Field name: 13-4      Crop: Corn, silage      Plant date: 06/29/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	92,357,280.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,401.20 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	37.38 inches/acre
Dry manure	305.14	132.91	394.99	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	12.59	0.00	0.00	1,680.09	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	346.30	132.91	394.99	1,680.09	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	309.69	50.68	202.71	5,084.58	
Nutrient balance	36.60	82.24	192.28	-3,404.50	
Applied to removed ratio	1.12	2.62	1.95	0.33	
Total harvests for the crop					
1 harvests					

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

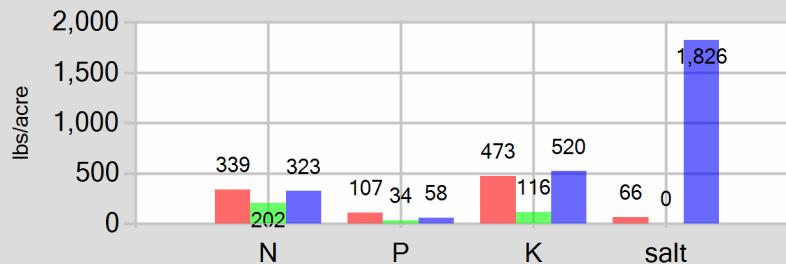
13-6 - 11/20/2022: Wheat, silage, soft dough

Field name: 13-6

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022

Nutrient budget in lbs/acre

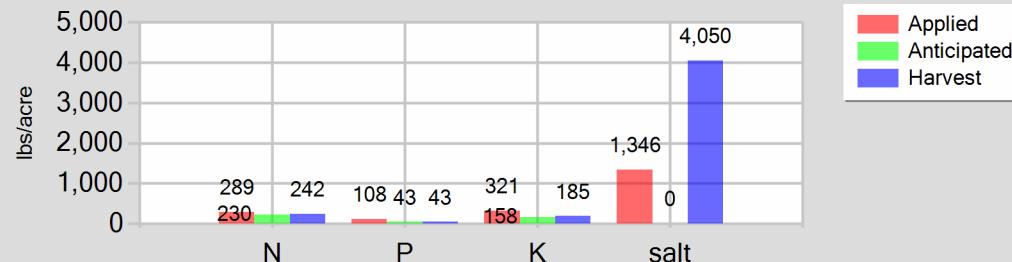


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	55,050,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,027.31 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.04 inches/acre
Dry manure	328.54	107.28	473.36	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.86	0.00	0.00	65.63	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	339.40	107.28	473.36	65.63	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	322.73	57.80	520.22	1,825.96	
Nutrient balance	16.67	49.48	-46.85	-1,760.33	
Applied to removed ratio	1.05	1.86	0.91	0.04	
Total harvests for the crop					1 harvests

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

13-6 - 07/13/2023: Corn, silage

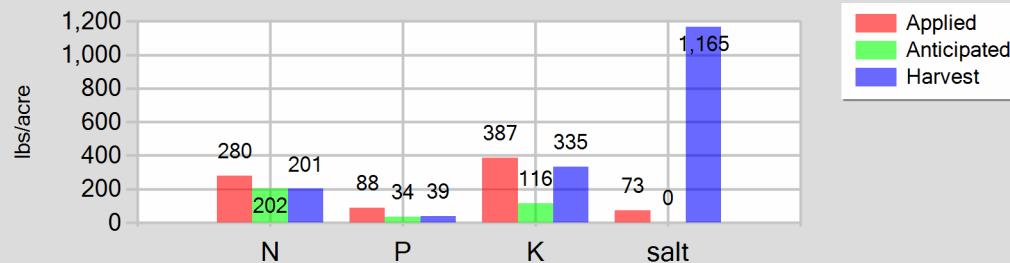
Field name: 13-6      Crop: Corn, silage      Plant date: 07/13/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	120,205,760.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,426.77 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	37.20 inches/acre
Dry manure	248.33	108.17	321.46	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	12.11	0.00	0.00	1,346.12	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	289.01	108.17	321.46	1,346.12	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	241.80	42.67	184.91	4,050.01	
Nutrient balance	47.21	65.50	136.55	-2,703.89	
Applied to removed ratio	1.20	2.53	1.74	0.33	
Total harvests for the crop					1 harvests

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13-8 - 11/17/2022: Wheat, silage, soft dough

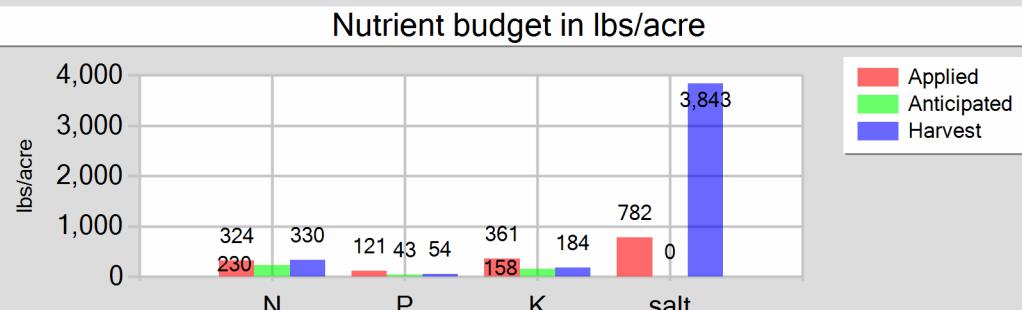
Field name: 13-8Crop: Wheat, silage, soft doughPlant date: 11/17/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	46,448,640.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,710.55 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.01 inches/acre
Dry manure	268.71	87.74	387.16	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	4.31	0.00	0.00	73.22	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	280.02	87.74	387.16	73.22	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	201.43	38.51	334.73	1,164.86	
Nutrient balance	78.59	49.23	52.43	-1,091.65	
Applied to removed ratio	1.39	2.28	1.16	0.06	
Total harvests for the crop					1 harvests

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

13-8 - 06/20/2023: Corn, silage

Field name: 13-8      Crop: Corn, silage      Plant date: 06/20/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	89,976,560.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,313.53 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	36.82 inches/acre
Dry manure	278.53	121.32	360.56	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	16.53	0.00	0.00	781.87	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	323.63	121.32	360.56	781.87	Process wastewater applied
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	0.00 gallons
Actual crop nutrient removal	329.81	54.07	183.83	3,842.52	0.00 acre-inches
Nutrient balance	-6.17	67.26	176.73	-3,060.65	0.00 inches/acre
Applied to removed ratio	0.98	2.24	1.96	0.20	Total harvests for the crop
					1 harvests

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

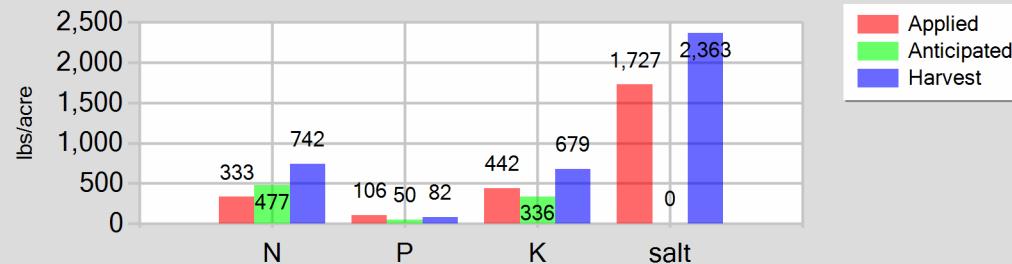
14-10 - 10/01/2021: Alfalfa, hay

Field name: 14-10

Crop: Alfalfa, hay

Plant date: 10/01/2021

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	126,254,160.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,649.51 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	46.50 inches/acre
Dry manure	246.62	105.55	442.04	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	71.94	0.00	0.00	1,726.86	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	332.56	105.55	442.04	1,726.86	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	741.98	81.91	679.34	2,363.25	
Nutrient balance	-409.42	23.64	-237.31	-636.39	
Applied to removed ratio	0.45	1.29	0.65	0.73	
Total harvests for the crop					1 harvests

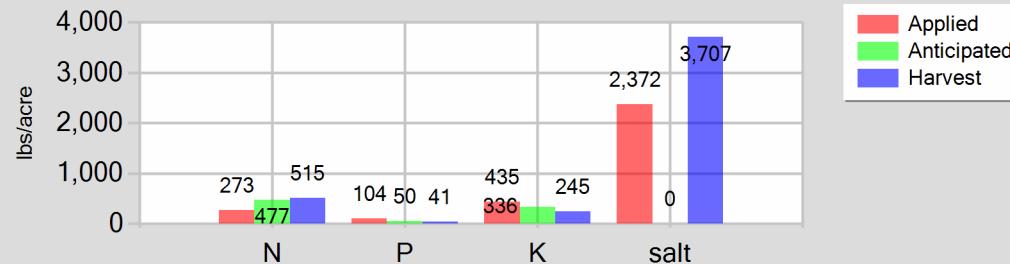
## Annual Report - General Order No. R5-2007-0035

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

14-11 - 11/02/2018: Alfalfa, hay

Field name: 14-11Crop: Alfalfa, hayPlant date: 11/02/2018

Nutrient budget in lbs/acre

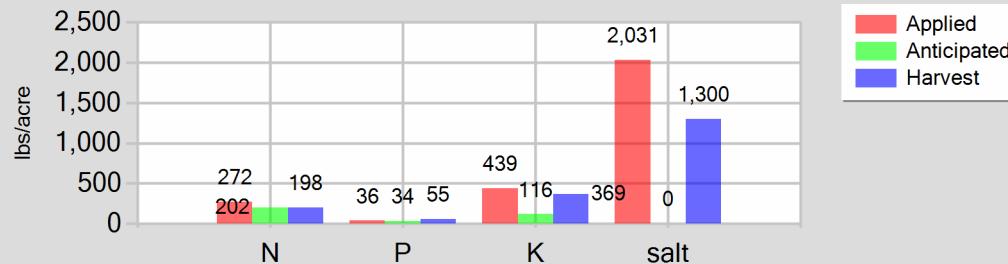


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	78,997,440.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,909.21 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	45.46 inches/acre
Dry manure	242.77	103.90	435.13	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	16.19	0.00	0.00	2,371.89	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	272.96	103.90	435.13	2,371.89	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	514.60	41.04	244.67	3,706.55	
Nutrient balance	-241.64	62.85	190.46	-1,334.66	
Applied to removed ratio	0.53	2.53	1.78	0.64	
Total harvests for the crop					
1 harvests					

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

14-2 - 10/29/2022: Wheat, silage, soft dough

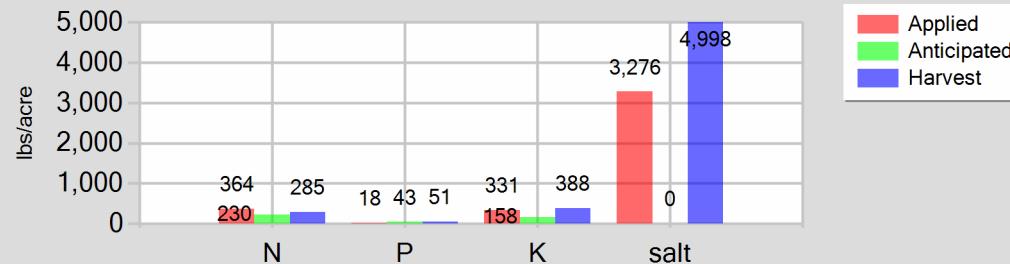
Field name: 14-2Crop: Wheat, silage, soft doughPlant date: 10/29/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	54,405,120.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,003.56 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.70 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	261.37	36.48	439.24	1,966.29	Process wastewater applied
Fresh water	3.78	0.00	0.00	64.32	8,700,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	320.39 acre-inches
Total nutrients applied	272.15	36.48	439.24	2,030.61	2.67 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	Total harvests for the crop
Actual crop nutrient removal	198.17	55.49	368.59	1,300.13	1 harvests
Nutrient balance	73.98	-19.00	70.65	730.48	
Applied to removed ratio	1.37	0.66	1.19	1.56	

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

14-2 - 05/30/2023: Corn, silage

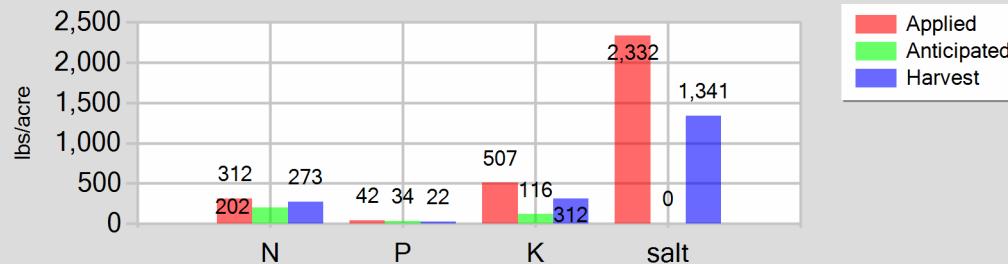
Field name: 14-2Crop: Corn, silagePlant date: 05/30/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	129,084,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,753.73 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	39.61 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	247.62	18.10	331.06	1,645.63	6,960,000.00 gallons
Fresh water	88.01	0.00	0.00	1,630.46	256.31 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.14 inches/acre
Total nutrients applied	364.20	18.10	331.06	3,276.09	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	285.25	51.35	387.94	4,998.44	
Nutrient balance	78.95	-33.24	-56.88	-1,722.35	
Applied to removed ratio	1.28	0.35	0.85	0.66	
Total harvests for the crop					1 harvests

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

14-3 - 10/28/2022: Wheat, silage, soft dough

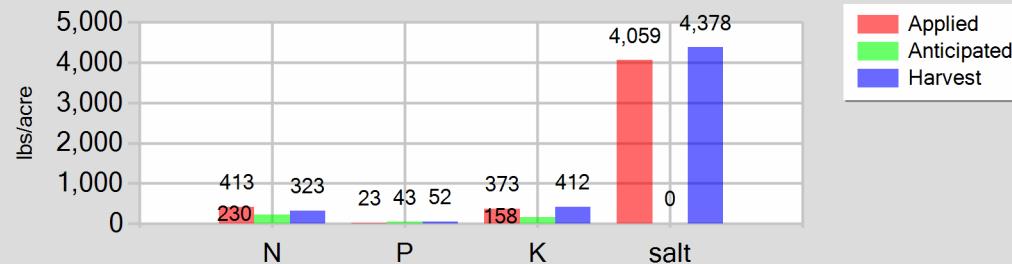
Field name: 14-3Crop: Wheat, silage, soft doughPlant date: 10/28/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	44,298,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,631.35 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.48 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	301.51	42.09	506.71	2,268.32	Process wastewater applied
Fresh water	3.73	0.00	0.00	63.48	8,280,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	304.92 acre-inches
Total nutrients applied	312.25	42.09	506.71	2,331.80	3.08 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	Total harvests for the crop
Actual crop nutrient removal	273.03	22.48	311.58	1,341.29	1 harvests
Nutrient balance	39.22	19.60	195.13	990.52	
Applied to removed ratio	1.14	1.87	1.63	1.74	

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

14-3 - 05/24/2023: Corn, silage

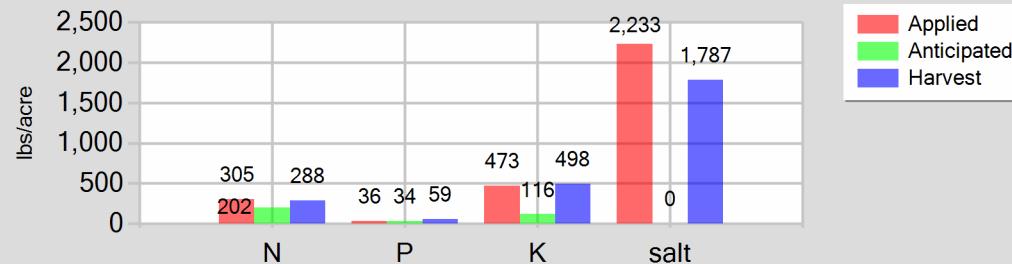
Field name: 14-3Crop: Corn, silagePlant date: 05/24/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	102,513,360.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,775.22 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	38.13 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	256.75	23.20	372.56	1,791.39	5,700,000.00 gallons
Fresh water	127.24	0.00	0.00	2,267.89	209.91 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.12 inches/acre
Total nutrients applied	412.56	23.20	372.56	4,059.28	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	323.15	52.12	411.76	4,378.22	
Nutrient balance	89.40	-28.92	-39.20	-318.94	
Applied to removed ratio	1.28	0.45	0.90	0.93	
Total harvests for the crop					1 harvests

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

14-5 - 11/02/2022: Wheat, silage, soft dough

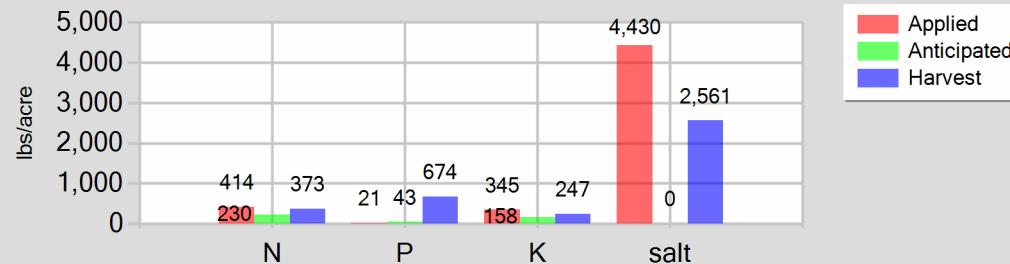
Field name: 14-5Crop: Wheat, silage, soft doughPlant date: 11/02/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	53,652,480.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,975.84 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.47 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	294.24	35.67	473.14	2,169.70	Process wastewater applied
Fresh water	3.73	0.00	0.00	63.43	8,700,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	320.39 acre-inches
Total nutrients applied	304.97	35.67	473.14	2,233.13	2.67 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	Total harvests for the crop
Actual crop nutrient removal	287.91	59.41	498.13	1,786.87	1 harvests
Nutrient balance	17.06	-23.74	-24.99	446.26	
Applied to removed ratio	1.06	0.60	0.95	1.25	

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

14-5 - 06/02/2023: Corn, silage

Field name: 14-5      Crop: Corn, silage      Plant date: 06/02/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	127,427,520.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,692.72 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	39.11 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	238.30	21.43	345.09	1,660.66	6,420,000.00 gallons
Fresh water	146.96	0.00	0.00	2,769.13	236.43 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.97 inches/acre
Total nutrients applied	413.84	21.43	345.09	4,429.78	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	373.24	674.24	246.82	2,561.09	
Nutrient balance	40.60	-652.81	98.27	1,868.69	
Applied to removed ratio	1.11	0.03	1.40	1.73	
Total harvests for the crop					1 harvests

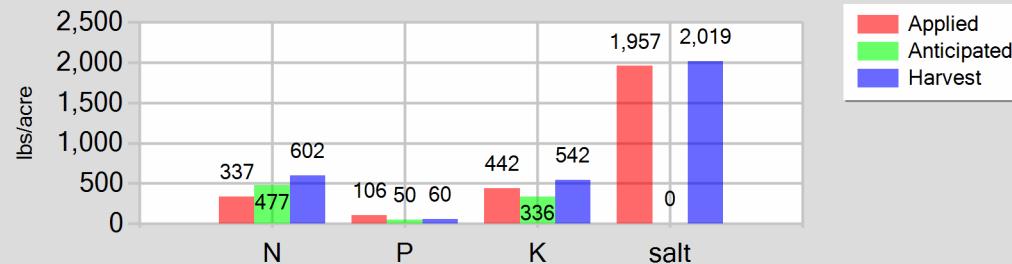
## Annual Report - General Order No. R5-2007-0035

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

14-6 - 10/21/2017: Alfalfa, hay

Field name: 14-6Crop: Alfalfa, hayPlant date: 10/21/2017

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	122,977,920.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,528.86 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	45.75 inches/acre
Dry manure	246.85	105.64	442.44	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	76.39	0.00	0.00	1,957.18	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	337.23	105.64	442.44	1,957.18	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	601.54	59.56	541.98	2,019.02	
Nutrient balance	-264.30	46.08	-99.54	-61.84	
Applied to removed ratio	0.56	1.77	0.82	0.97	
Total harvests for the crop					1 harvests

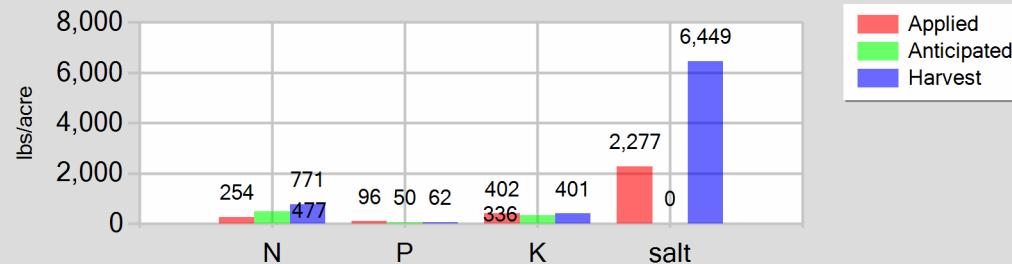
## Annual Report - General Order No. R5-2007-0035

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

14-7 - 10/29/2018: Alfalfa, hay

Field name: 14-7Crop: Alfalfa, hayPlant date: 10/29/2018

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	84,158,400.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,099.27 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	46.26 inches/acre
Dry manure	224.20	95.95	401.85	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	16.11	0.00	0.00	2,276.61	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	254.31	95.95	401.85	2,276.61	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	771.14	61.69	400.99	6,449.12	
Nutrient balance	-516.83	34.26	0.86	-4,172.52	
Applied to removed ratio	0.33	1.56	1.00	0.35	
Total harvests for the crop					1 harvests

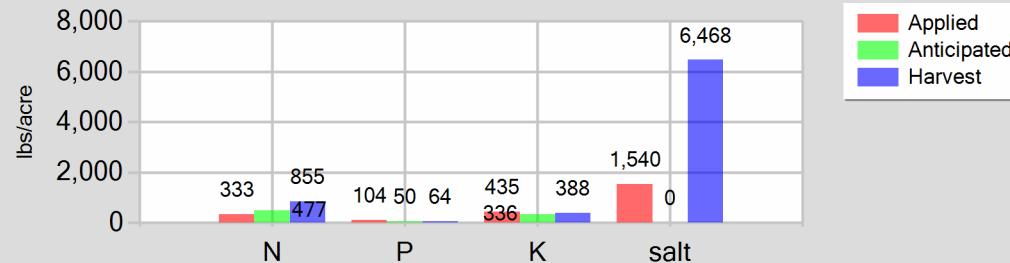
## Annual Report - General Order No. R5-2007-0035

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

14-9 - 10/09/2017: Alfalfa, hay

Field name: 14-9Crop: Alfalfa, hayPlant date: 10/09/2017

Nutrient budget in lbs/acre

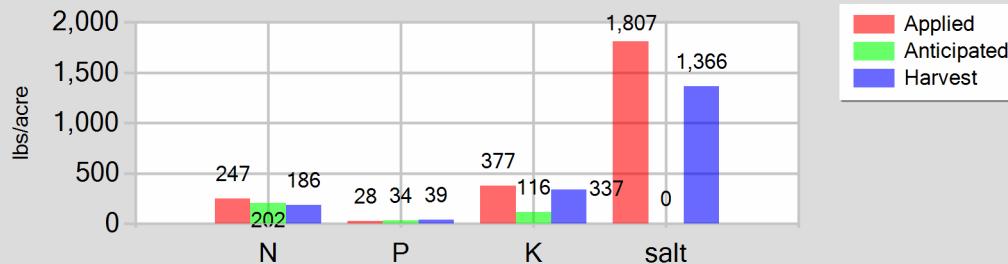


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	150,332,160.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	5,536.22 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	46.14 inches/acre
Dry manure	242.88	103.95	435.34	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	75.98	0.00	0.00	1,540.30	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	332.86	103.95	435.34	1,540.30	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	855.37	63.91	388.36	6,468.34	
Nutrient balance	-522.50	40.04	46.98	-4,928.05	
Applied to removed ratio	0.39	1.63	1.12	0.24	
Total harvests for the crop					1 harvests

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

15-1 - 11/15/2022: Wheat, silage, soft dough

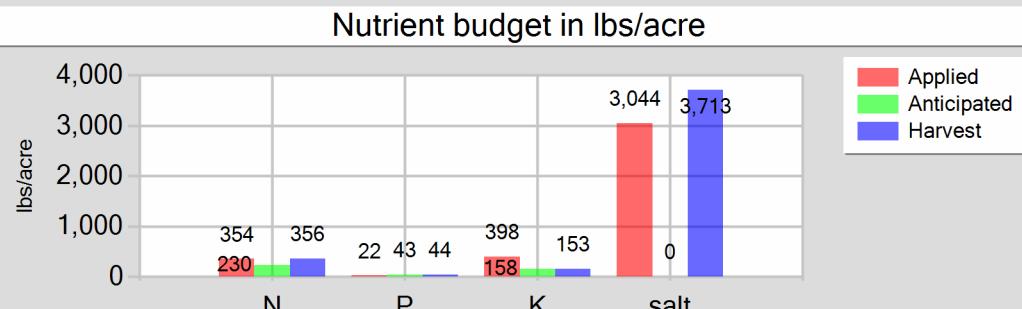
Field name: 15-1Crop: Wheat, silage, soft doughPlant date: 11/15/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,934,080.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	807.76 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.79 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	235.88	28.05	377.17	1,734.98	Process wastewater applied
Fresh water	4.26	0.00	0.00	72.36	2,460,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	90.59 acre-inches
Total nutrients applied	247.14	28.05	377.17	1,807.35	2.11 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	185.87	38.58	336.67	1,365.62	Total harvests for the crop
Nutrient balance	61.27	-10.52	40.50	441.73	1 harvests
Applied to removed ratio	1.33	0.73	1.12	1.32	

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

15-1 - 06/16/2023: Corn, silage

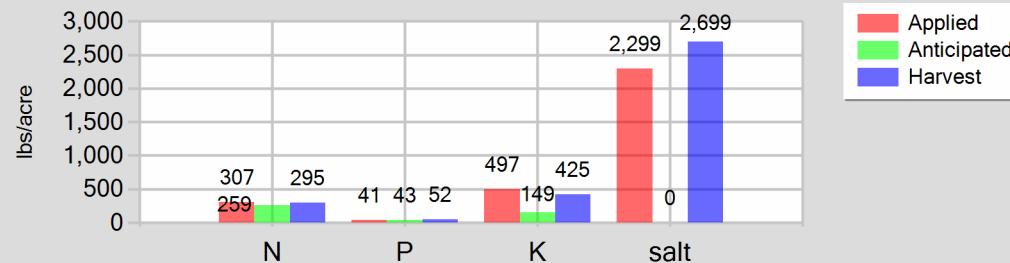
Field name: 15-1      Crop: Corn, silage      Plant date: 06/16/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	45,816,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,687.25 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	39.24 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	297.86	21.77	398.23	1,979.51	Process wastewater applied
Fresh water	27.49	0.00	0.00	1,064.57	3,000,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	110.48 acre-inches
Total nutrients applied	353.91	21.77	398.23	3,044.08	2.57 inches/acre
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	Total harvests for the crop
Actual crop nutrient removal	355.98	44.50	153.27	3,712.59	1 harvests
Nutrient balance	-2.07	-22.72	244.96	-668.51	
Applied to removed ratio	0.99	0.49	2.60	0.82	

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

15-3 - 10/29/2022: Rye Grass Silage

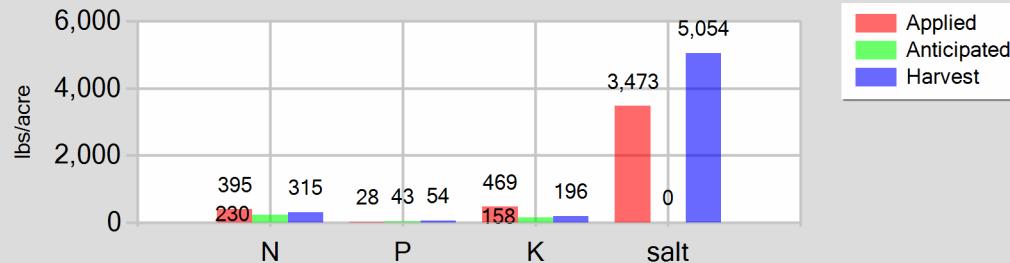
Field name: 15-3Crop: Rye Grass SilagePlant date: 10/29/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	48,384,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,781.82 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.76 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	295.99	41.32	497.43	2,226.80	Process wastewater applied
Fresh water	4.25	0.00	0.00	72.25	7,800,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	287.25 acre-inches
Total nutrients applied	307.24	41.32	497.43	2,299.05	3.02 inches/acre
Anticipated crop nutrient removal	259.20	43.20	149.40	0.00	
Actual crop nutrient removal	294.62	51.99	424.60	2,699.23	Total harvests for the crop
Nutrient balance	12.62	-10.68	72.83	-400.18	1 harvests
Applied to removed ratio	1.04	0.79	1.17	0.85	

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

15-3 - 07/08/2023: Corn, silage

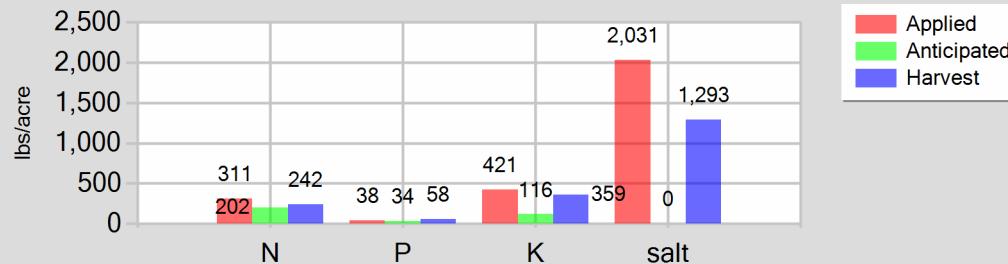
Field name: 15-3Crop: Corn, silagePlant date: 07/08/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	102,915,960.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,790.04 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	39.90 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	330.96	28.28	469.49	2,277.92	7,140,000.00 gallons
Fresh water	35.69	0.00	0.00	1,195.03	262.94 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.77 inches/acre
<b>Total nutrients applied</b>	<b>395.22</b>	<b>28.28</b>	<b>469.49</b>	<b>3,472.95</b>	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	315.15	54.34	195.61	5,054.08	
Nutrient balance	80.06	-26.06	273.88	-1,581.13	
Applied to removed ratio	1.25	0.52	2.40	0.69	
<b>Total harvests for the crop</b>					<b>1 harvests</b>

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

15-4 - 10/30/2022: Wheat, silage, soft dough

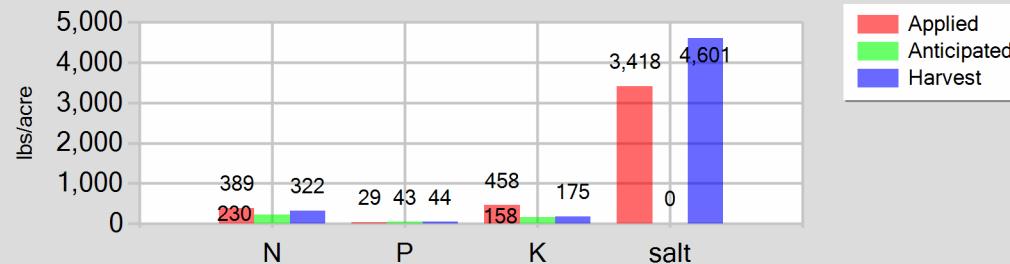
Field name: 15-4Crop: Wheat, silage, soft doughPlant date: 10/30/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	61,931,520.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,280.73 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.25 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	299.72	38.29	420.94	1,960.54	Process wastewater applied
Fresh water	4.13	0.00	0.00	70.29	9,240,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	340.28 acre-inches
Total nutrients applied	310.85	38.29	420.94	2,030.83	2.72 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	Total harvests for the crop
Actual crop nutrient removal	242.21	58.46	359.14	1,293.39	1 harvests
Nutrient balance	68.64	-20.18	61.81	737.44	
Applied to removed ratio	1.28	0.65	1.17	1.57	

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

15-4 - 06/11/2023: Corn, silage

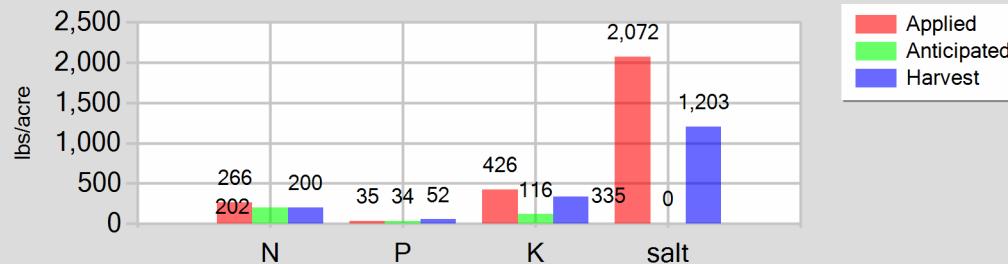
Field name: 15-4Crop: Corn, silagePlant date: 06/11/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	127,123,080.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,681.51 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	37.45 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	313.69	28.81	458.21	2,197.47	
Fresh water	46.60	0.00	0.00	1,220.93	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	388.86	28.81	458.21	3,418.40	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	322.09	43.67	174.69	4,600.60	
Nutrient balance	66.77	-14.87	283.52	-1,182.20	
Applied to removed ratio	1.21	0.66	2.62	0.74	
Total harvests for the crop					1 harvests

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

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

15-5A - 11/15/2022: Wheat, silage, soft dough

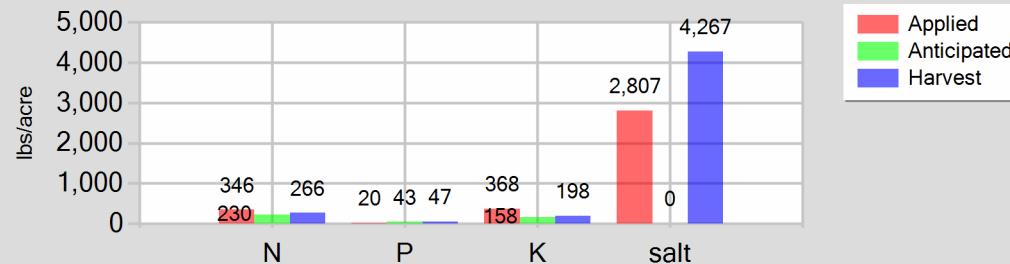
Field name: 15-5ACrop: Wheat, silage, soft doughPlant date: 11/15/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	34,800,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,281.57 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.63 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	253.23	35.35	425.57	1,905.10	Process wastewater applied
Fresh water	5.49	0.00	0.00	166.45	5,760,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	212.12 acre-inches
Total nutrients applied	265.72	35.35	425.57	2,071.55	2.59 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	Total harvests for the crop
Actual crop nutrient removal	200.27	52.24	335.23	1,203.31	1 harvests
Nutrient balance	65.45	-16.90	90.34	868.25	
Applied to removed ratio	1.33	0.68	1.27	1.72	

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

15-5A - 06/21/2023: Corn, silage

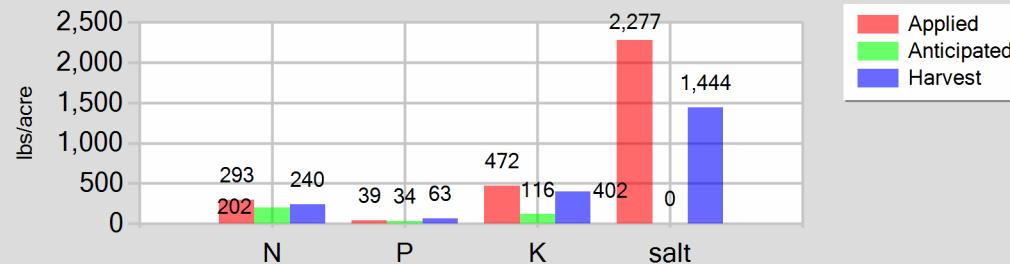
Field name: 15-5ACrop: Corn, silagePlant date: 06/21/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	89,528,760.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,297.04 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	40.21 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	274.90	20.10	367.54	1,826.94	5,280,000.00 gallons
Fresh water	42.13	0.00	0.00	980.21	194.44 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.37 inches/acre
Total nutrients applied	345.61	20.10	367.54	2,807.15	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	266.32	47.00	198.43	4,267.33	
Nutrient balance	79.29	-26.90	169.10	-1,460.17	
Applied to removed ratio	1.30	0.43	1.85	0.66	
Total harvests for the crop					1 harvests

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

15-5B - 11/01/2022: Wheat, silage, soft dough

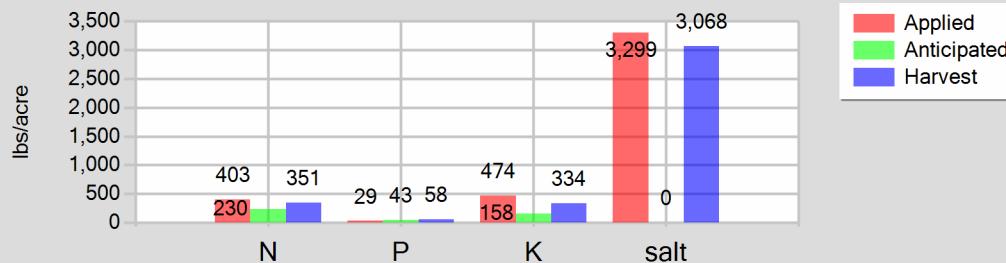
Field name: 15-5BCrop: Wheat, silage, soft doughPlant date: 11/01/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	35,520,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,308.08 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.57 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	280.68	39.18	471.70	2,111.58	Process wastewater applied
Fresh water	5.47	0.00	0.00	165.85	6,540,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	240.85 acre-inches
Total nutrients applied	293.15	39.18	471.70	2,277.43	2.87 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	240.30	62.69	402.23	1,443.81	Total harvests for the crop
Nutrient balance	52.85	-23.51	69.46	833.63	1 harvests
Applied to removed ratio	1.22	0.62	1.17	1.58	

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

15-5B - 06/06/2023: Corn, silage

Field name: 15-5BCrop: Corn, silagePlant date: 06/06/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	93,489,960.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,442.92 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	40.99 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	331.60	28.86	473.89	2,292.49	Process wastewater applied
Fresh water	43.32	0.00	0.00	1,006.51	6,300,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	232.01 acre-inches
Total nutrients applied	403.50	28.86	473.89	3,299.00	2.76 inches/acre
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	Total harvests for the crop
Actual crop nutrient removal	351.33	57.60	334.05	3,068.33	1 harvests
Nutrient balance	52.17	-28.73	139.84	230.68	
Applied to removed ratio	1.15	0.50	1.42	1.08	

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

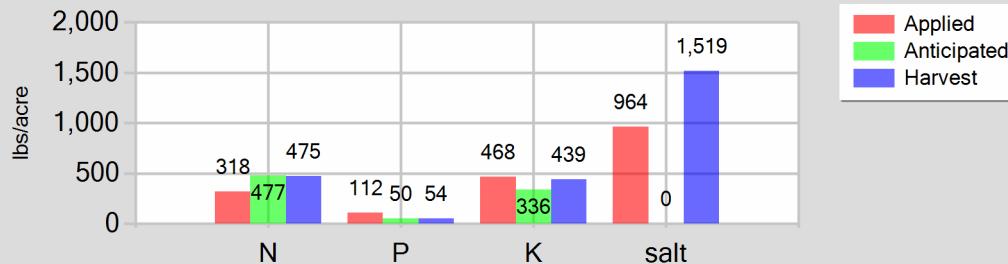
15-6 - 11/20/2022: Alfalfa, hay

Field name: 15-6

Crop: Alfalfa, hay

Plant date: 11/20/2022

Nutrient budget in lbs/acre

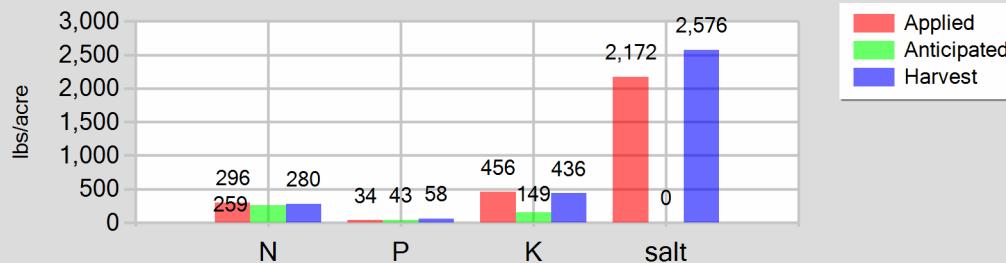


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	127,542,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,696.95 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	46.05 inches/acre
Dry manure	261.13	111.75	468.04	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	43.07	0.00	0.00	963.63	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	318.20	111.75	468.04	963.63	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	474.51	54.14	439.48	1,519.07	
Nutrient balance	-156.31	57.61	28.56	-556.43	
Applied to removed ratio	0.67	2.06	1.06	0.63	
Total harvests for the crop					1 harvests

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

15-7 - 10/30/2022: Rye Grass Silage

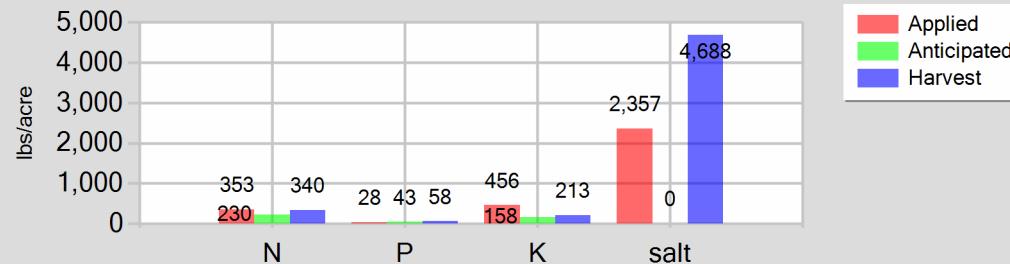
Field name: 15-7Crop: Rye Grass SilagePlant date: 10/30/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	55,050,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,027.31 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	20.27 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	284.29	34.20	456.09	2,094.18	6,960,000.00 gallons
Fresh water	4.59	0.00	0.00	78.10	256.31 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.56 inches/acre
Total nutrients applied	295.88	34.20	456.09	2,172.27	
Anticipated crop nutrient removal	259.20	43.20	149.40	0.00	
Actual crop nutrient removal	279.62	57.57	435.87	2,576.17	
Nutrient balance	16.27	-23.37	20.22	-403.89	
Applied to removed ratio	1.06	0.59	1.05	0.84	
Total harvests for the crop					1 harvests

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

15-7 - 07/04/2023: Corn, silage

Field name: 15-7Crop: Corn, silagePlant date: 07/04/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	113,863,680.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,193.21 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	41.93 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	315.18	28.27	455.97	2,195.07	7,080,000.00 gallons
Fresh water	9.50	0.00	0.00	161.53	260.73 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.61 inches/acre
<b>Total nutrients applied</b>	<b>353.25</b>	<b>28.27</b>	<b>455.97</b>	<b>2,356.60</b>	<b>Total harvests for the crop</b>
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	<b>1 harvests</b>
Actual crop nutrient removal	340.35	58.50	212.72	4,688.15	
Nutrient balance	12.90	-30.22	243.25	-2,331.55	
Applied to removed ratio	1.04	0.48	2.14	0.50	

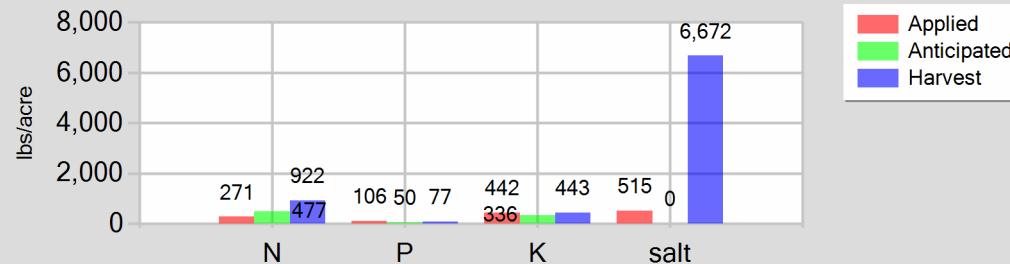
## Annual Report - General Order No. R5-2007-0035

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

16-1 - 10/26/2020: Alfalfa, hay

Field name: 16-1Crop: Alfalfa, hayPlant date: 10/26/2020

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	121,539,840.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,475.90 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	45.67 inches/acre
Dry manure	246.62	105.55	442.04	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	10.35	0.00	0.00	514.95	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	270.97	105.55	442.04	514.95	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	922.17	76.62	443.30	6,671.64	
Nutrient balance	-651.20	28.93	-1.26	-6,156.69	
Applied to removed ratio	0.29	1.38	1.00	0.08	
Total harvests for the crop					1 harvests

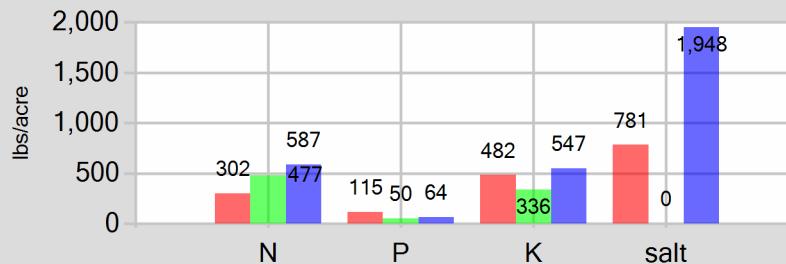
## Annual Report - General Order No. R5-2007-0035

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

16-2 - 11/30/2020: Alfalfa, hay

Field name: 16-2Crop: Alfalfa, hayPlant date: 11/30/2020

Nutrient budget in lbs/acre

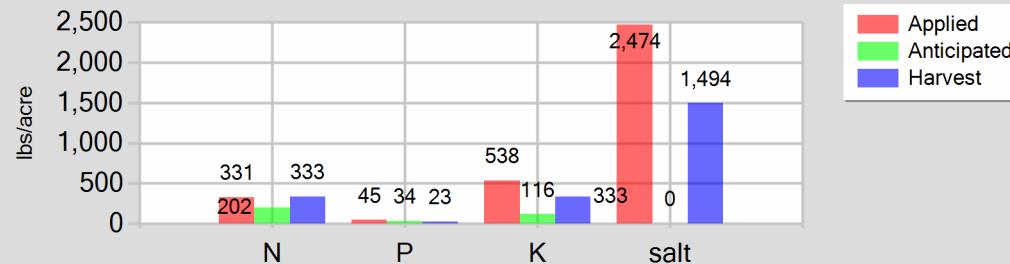


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	109,509,540.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,032.86 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	43.36 inches/acre
Dry manure	269.04	115.14	482.22	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	19.21	0.00	0.00	781.26	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	302.25	115.14	482.22	781.26	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	587.08	64.12	547.01	1,947.60	
Nutrient balance	-284.83	51.02	-64.79	-1,166.34	
Applied to removed ratio	0.51	1.80	0.88	0.40	
Total harvests for the crop					1 harvests

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

16-3 - 10/27/2022: Wheat, silage, soft dough

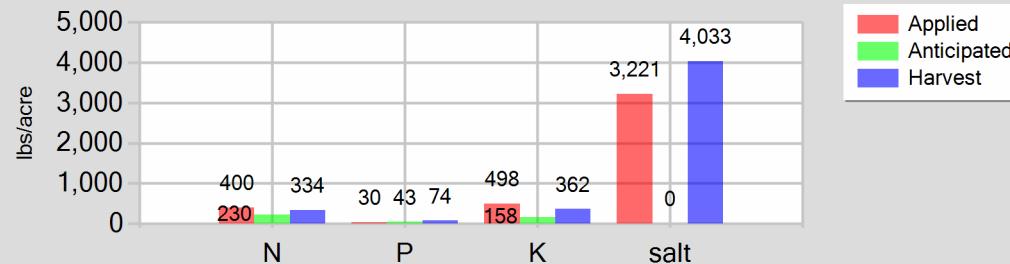
Field name: 16-3Crop: Wheat, silage, soft doughPlant date: 10/27/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	44,943,360.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,655.11 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.61 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	319.85	44.65	537.53	2,406.29	Process wastewater applied
Fresh water	3.99	0.00	0.00	67.83	8,340,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	307.13 acre-inches
Total nutrients applied	330.84	44.65	537.53	2,474.12	3.27 inches/acre
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	Total harvests for the crop
Actual crop nutrient removal	333.01	22.97	333.01	1,494.47	1 harvests
Nutrient balance	-2.17	21.68	204.52	979.65	
Applied to removed ratio	0.99	1.94	1.61	1.66	

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

16-3 - 05/22/2023: Corn, silage

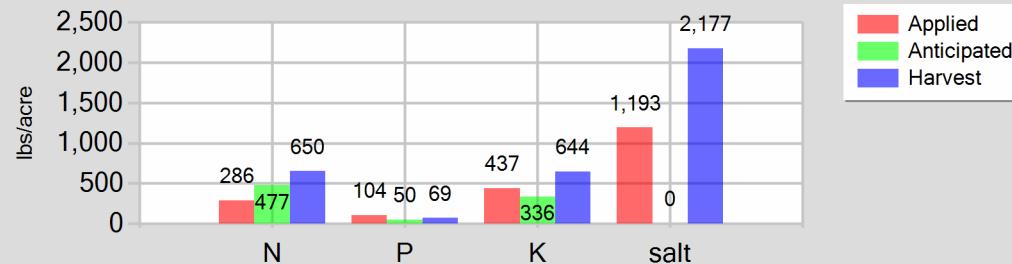
Field name: 16-3Crop: Corn, silagePlant date: 05/22/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	101,592,180.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,741.29 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	39.80 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	351.27	29.99	498.12	2,417.21	7,500,000.00 gallons
Fresh water	20.03	0.00	0.00	804.08	276.20 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.94 inches/acre
Total nutrients applied	399.87	29.99	498.12	3,221.29	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	333.79	73.55	362.08	4,033.29	
Nutrient balance	66.08	-43.56	136.05	-812.00	
Applied to removed ratio	1.20	0.41	1.38	0.80	
Total harvests for the crop					1 harvests

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

16-4 - 11/06/2020: Alfalfa, hay

Field name: 16-4Crop: Alfalfa, hayPlant date: 11/06/2020**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	111,841,320.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,118.74 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	45.26 inches/acre
Dry manure	243.91	104.39	437.18	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	27.71	0.00	0.00	1,192.54	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	285.62	104.39	437.18	1,192.54	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	650.27	68.80	643.61	2,177.17	
Nutrient balance	-364.65	35.59	-206.43	-984.63	
Applied to removed ratio	0.44	1.52	0.68	0.55	
Total harvests for the crop					1 harvests

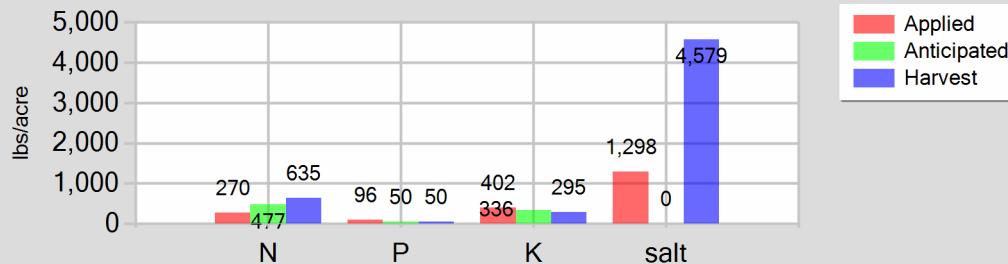
## Annual Report - General Order No. R5-2007-0035

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

16-5 - 11/12/2022: Alfalfa, hay

Field name: 16-5Crop: Alfalfa, hayPlant date: 11/12/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	126,464,100.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,657.24 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	44.35 inches/acre
Dry manure	224.20	95.95	401.85	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	32.02	0.00	0.00	1,297.97	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	270.22	95.95	401.85	1,297.97	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	635.49	50.07	294.63	4,578.96	
Nutrient balance	-365.26	45.88	107.22	-3,281.00	
Applied to removed ratio	0.43	1.92	1.36	0.28	
<b>Total harvests for the crop</b>					
<b>1 harvests</b>					

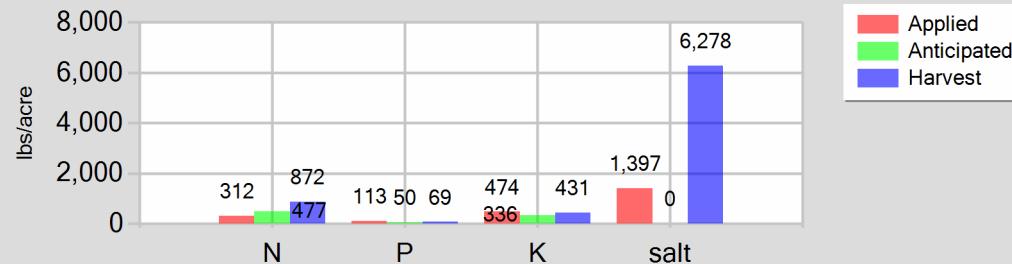
## Annual Report - General Order No. R5-2007-0035

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

16-6 - 11/16/2020: Alfalfa, hay

Field name: 16-6Crop: Alfalfa, hayPlant date: 11/16/2020

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	115,956,960.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,270.30 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	44.95 inches/acre
Dry manure	264.32	113.12	473.76	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	34.05	0.00	0.00	1,397.05	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	312.37	113.12	473.76	1,397.05	
Anticipated crop nutrient removal	476.80	49.60	336.00	0.00	
Actual crop nutrient removal	871.62	68.67	430.53	6,278.02	
Nutrient balance	-559.25	44.45	43.23	-4,880.97	
Applied to removed ratio	0.36	1.65	1.10	0.22	
<b>Total harvests for the crop</b>					
<b>1 harvests</b>					

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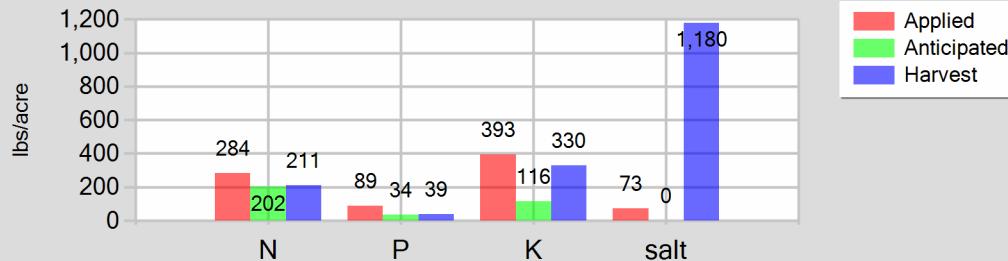
Reporting period 01/01/2023 to 12/31/2023.

CVW 10 - 11/03/2022: Wheat, silage, soft dough

Field name: CVW 10

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

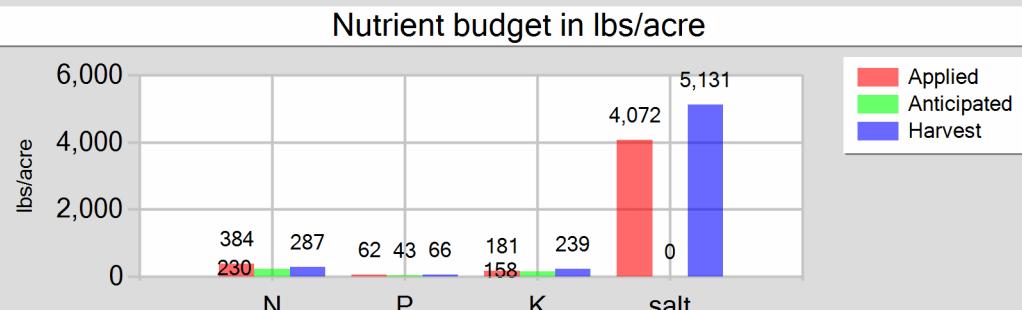
**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	22,794,240.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	839.43 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.08 inches/acre
Dry manure	272.88	89.10	393.16	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	4.32	0.00	0.00	73.49	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	284.20	89.10	393.16	73.49	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	211.39	38.70	330.48	1,179.80	
Nutrient balance	72.81	50.40	62.69	-1,106.31	
Applied to removed ratio	1.34	2.30	1.19	0.06	
Total harvests for the crop					1 harvests

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

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

CVW 10 - 06/12/2023: Corn, silage

Field name: CVW 10Crop: Corn, silagePlant date: 06/12/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	46,568,400.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,714.96 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	38.98 inches/acre
Dry manure	287.71	62.06	180.52	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	68.05	0.00	0.00	4,072.32	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	384.33	62.06	180.52	4,072.32	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	286.91	65.75	239.09	5,130.58	
Nutrient balance	97.42	-3.70	-58.57	-1,058.26	
Applied to removed ratio	1.34	0.94	0.76	0.79	
Total harvests for the crop					1 harvests

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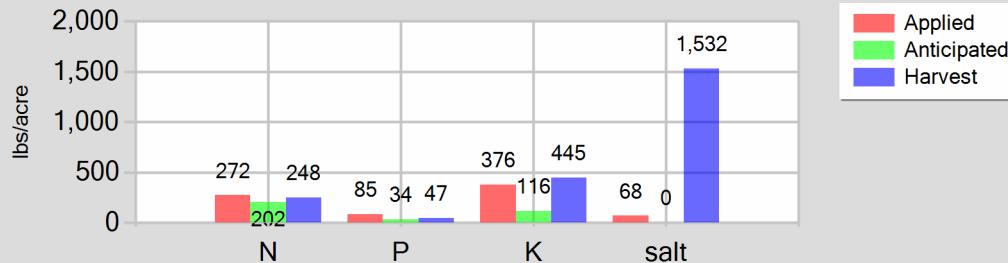
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: CVW 12

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

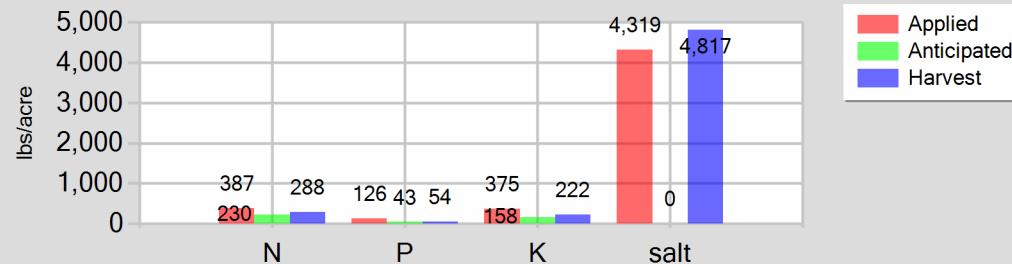
**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	27,632,640.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,017.62 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.55 inches/acre
Dry manure	260.79	85.16	375.75	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.98	0.00	0.00	67.59	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	271.76	85.16	375.75	67.59	Process wastewater applied
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	0.00 gallons
Actual crop nutrient removal	248.31	47.30	445.38	1,532.17	0.00 acre-inches
Nutrient balance	23.46	37.86	-69.63	-1,464.58	0.00 inches/acre
Applied to removed ratio	1.09	1.80	0.84	0.04	Total harvests for the crop
					1 harvests

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

CVW 12 - 06/15/2023: Corn, silage

Field name: CVW 12Crop: Corn, silagePlant date: 06/15/2023**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	58,598,160.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,157.97 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	37.21 inches/acre
Dry manure	289.35	126.04	374.56	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	69.19	0.00	0.00	4,319.43	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	387.11	126.04	374.56	4,319.43	Process wastewater applied
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	0.00 gallons
Actual crop nutrient removal	288.17	54.03	222.13	4,816.71	0.00 acre-inches
Nutrient balance	98.94	72.01	152.43	-497.28	0.00 inches/acre
Applied to removed ratio	1.34	2.33	1.69	0.90	Total harvests for the crop
					1 harvests

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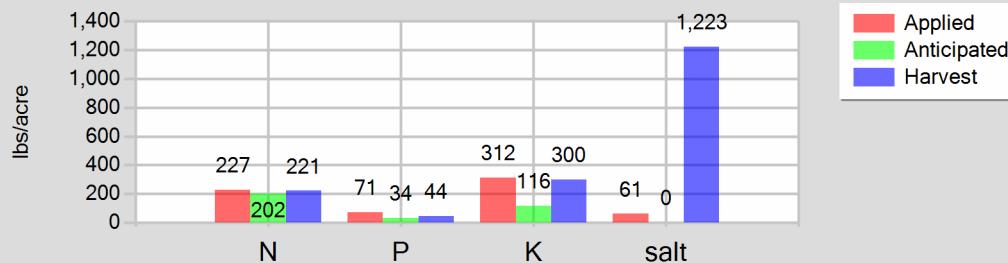
Reporting period 01/01/2023 to 12/31/2023.

CVW 3 - 11/12/2022: Wheat, silage, soft dough

Field name: CVW 3

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	26,664,960.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	981.98 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.84 inches/acre
Dry manure	216.40	70.66	311.79	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.59	0.00	0.00	61.01	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	226.99	70.66	311.79	61.01	Process wastewater applied
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	0.00 gallons
Actual crop nutrient removal	221.42	44.28	299.77	1,223.26	0.00 acre-inches
Nutrient balance	5.57	26.38	12.02	-1,162.24	0.00 inches/acre
Applied to removed ratio	1.03	1.60	1.04	0.05	Total harvests for the crop
					1 harvests

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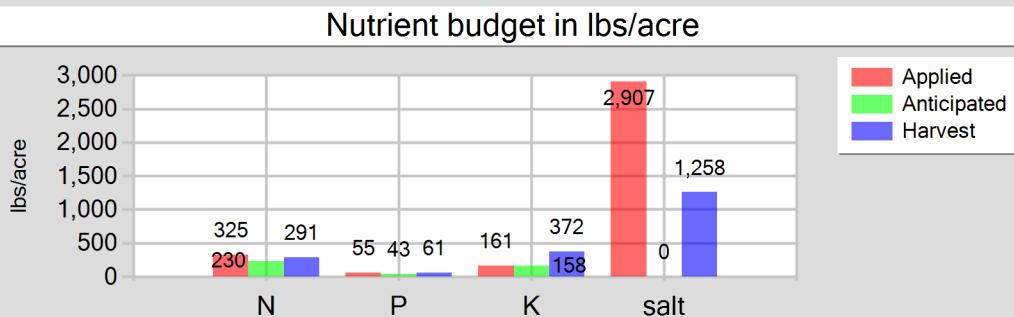
Reporting period 01/01/2023 to 12/31/2023.

CVW 3 - 06/12/2023: Corn, silage

Field name: CVW 3

Crop: Corn, silage

Plant date: 06/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	61,715,880.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,272.79 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	36.66 inches/acre
Dry manure	256.68	55.36	161.06	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	39.87	0.00	0.00	2,907.37	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	325.13	55.36	161.06	2,907.37	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	290.52	61.16	372.06	1,257.92	
Nutrient balance	34.61	-5.80	-211.01	1,649.45	
Applied to removed ratio	1.12	0.91	0.43	2.31	
Total harvests for the crop					1 harvests

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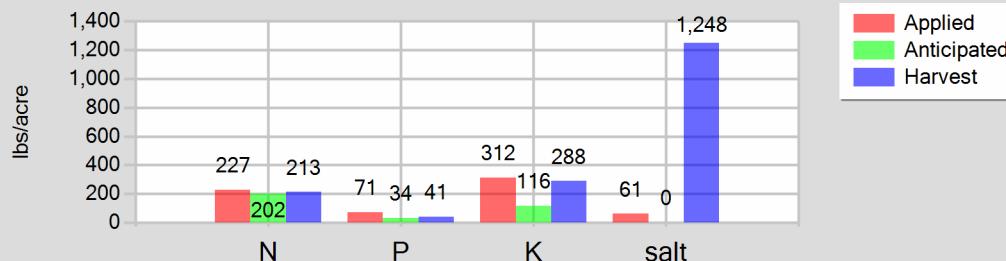
Reporting period 01/01/2023 to 12/31/2023.

CVW 4 - 11/22/2022: Wheat, silage, soft dough

Field name: CVW 4

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	29,890,560.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,100.77 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.73 inches/acre
Dry manure	216.69	70.76	312.21	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.56	0.00	0.00	60.58	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	227.26	70.76	312.21	60.58	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	212.75	41.18	288.24	1,247.63	
Nutrient balance	14.51	29.58	23.97	-1,187.06	
Applied to removed ratio	1.07	1.72	1.08	0.05	
Total harvests for the crop					1 harvests

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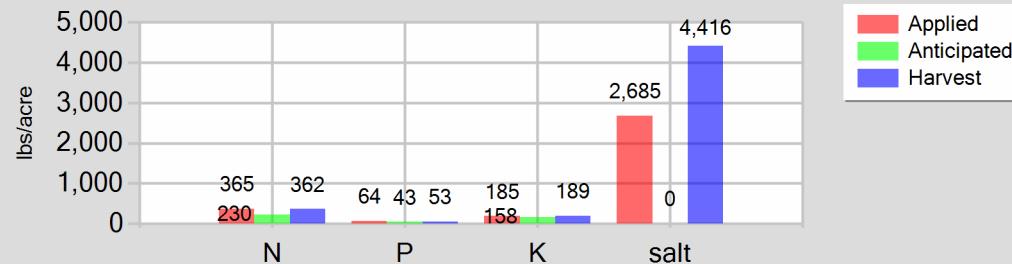
Reporting period 01/01/2023 to 12/31/2023.

CVW 4 - 06/21/2023: Corn, silage

Field name: CVW 4

Crop: Corn, silage

Plant date: 06/21/2023

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	78,435,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,888.49 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	41.26 inches/acre
Dry manure	294.52	63.52	184.80	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	41.91	0.00	0.00	2,684.90	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	365.00	63.52	184.80	2,684.90	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	362.35	52.51	189.05	4,416.34	
Nutrient balance	2.65	11.01	-4.25	-1,731.43	
Applied to removed ratio	1.01	1.21	0.98	0.61	
Total harvests for the crop					1 harvests

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

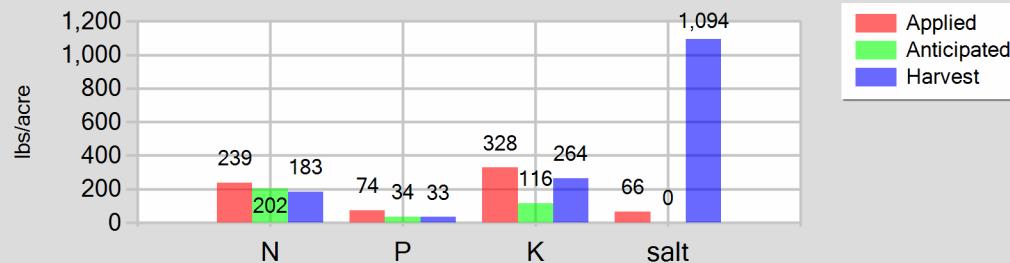
CVW 5 - 11/11/2022: Wheat, silage, soft dough

Field name: CVW 5

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	27,095,040.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	997.82 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.20 inches/acre
Dry manure	227.64	74.33	327.98	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	3.90	0.00	0.00	66.27	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	238.54	74.33	327.98	66.27	Process wastewater applied
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	0.00 gallons
Actual crop nutrient removal	183.00	33.00	264.00	1,093.92	0.00 acre-inches
Nutrient balance	55.54	41.33	63.98	-1,027.65	0.00 inches/acre
Applied to removed ratio	1.30	2.25	1.24	0.06	Total harvests for the crop
					1 harvests

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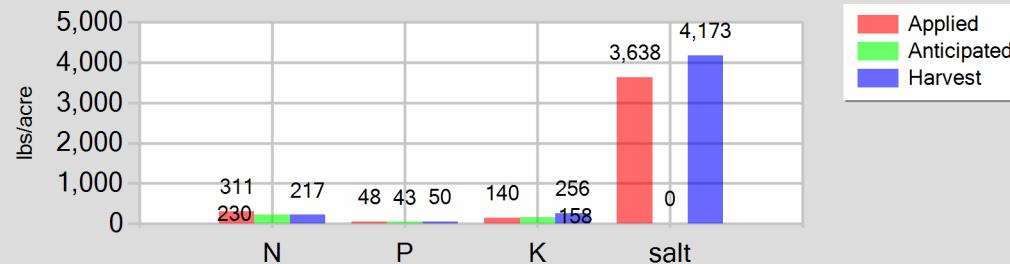
Reporting period 01/01/2023 to 12/31/2023.

CVW 5 - 06/24/2023: Corn, silage

Field name: CVW 5

Crop: Corn, silage

Plant date: 06/24/2023

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	54,738,120.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,015.82 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	34.76 inches/acre
Dry manure	223.11	48.12	139.99	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	59.04	0.00	0.00	3,638.26	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	310.72	48.12	139.99	3,638.26	
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	
Actual crop nutrient removal	217.19	50.12	256.17	4,172.97	
Nutrient balance	93.53	-2.00	-116.18	-534.71	
Applied to removed ratio	1.43	0.96	0.55	0.87	
Total harvests for the crop					1 harvests

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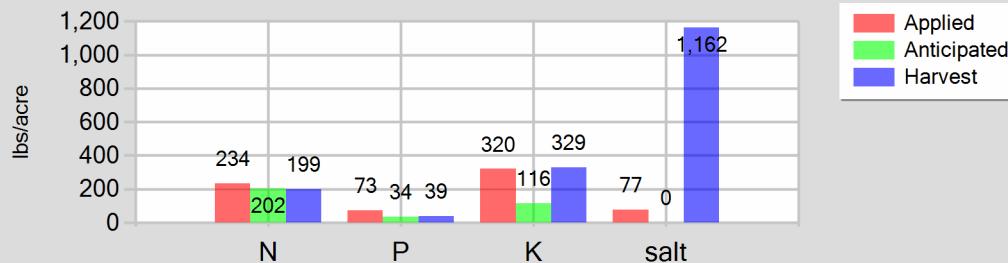
Reporting period 01/01/2023 to 12/31/2023.

CVW 9 - 11/08/2022: Wheat, silage, soft dough

Field name: CVW 9

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	35,159,040.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,294.79 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.92 inches/acre
Dry manure	222.19	72.55	320.13	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	4.51	0.00	0.00	76.74	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	233.70	72.55	320.13	76.74	
Anticipated crop nutrient removal	201.60	33.60	116.20	0.00	
Actual crop nutrient removal	199.22	39.24	329.01	1,162.11	
Nutrient balance	34.48	33.31	-8.88	-1,085.37	
Applied to removed ratio	1.17	1.85	0.97	0.07	
Total harvests for the crop					1 harvests

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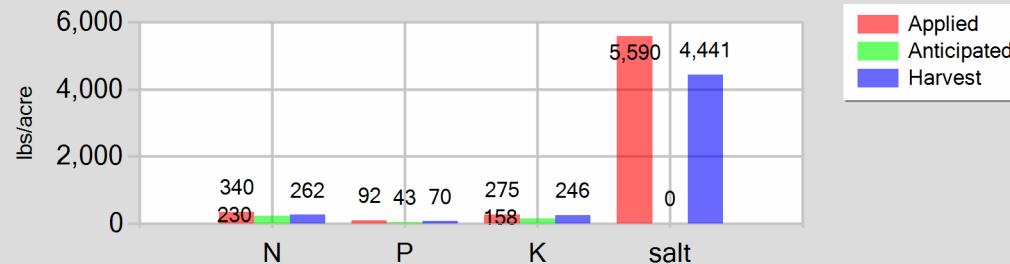
Reporting period 01/01/2023 to 12/31/2023.

CVW 9 - 06/14/2023: Corn, silage

Field name: CVW 9

Crop: Corn, silage

Plant date: 06/14/2023

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	68,292,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,514.96 acre-inches
Commercial fertilizer / Other	21.57	0.00	0.00	0.00	38.69 inches/acre
Dry manure	212.33	92.49	274.86	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	99.45	0.00	0.00	5,590.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	340.35	92.49	274.86	5,590.00	Process wastewater applied
Anticipated crop nutrient removal	230.40	43.20	158.40	0.00	0.00 gallons
Actual crop nutrient removal	262.04	69.52	245.99	4,440.74	0.00 acre-inches
Nutrient balance	78.31	22.97	28.86	1,149.26	0.00 inches/acre
Applied to removed ratio	1.30	1.33	1.12	1.26	Total harvests for the crop
					1 harvests

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

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

**NUTRIENT ANALYSES****A. MANURE ANALYSES****Poultry Mix and Sample Chicken**Sample and source description: Poultry Mix and Sample ChickenSample date: 04/12/2021 Material type: Scraped material Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 40.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,600.00	8,300.00	27,300.00							
<b>DL</b>	100.00	100.00	100.00							

**Corral Solids**Sample and source description: Corral SolidsSample date: 09/28/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 12.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,500.00	8,000.00	35,300.00							
<b>DL</b>	100.00	100.00	100.00							

**Chicken Solids**Sample and source description: Chicken SolidsSample date: 04/17/2023 Material type: Scraped material Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 25.2 %

	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 (%)
<b>Value</b>	47,500.00	9,200.00	19,500.00							
<b>DL</b>	100.00	100.00	100.00							

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

**Corral Solids DM1**Sample and source description: Corral Solids DM1Sample date: 04/17/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 28.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,300.00	7,100.00	21,100.00							
DL	100.00	100.00	100.00							

**Drying Solids**Sample and source description: Drying SolidsSample date: 04/17/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 52.5 %

	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	23,600.00	10,100.00	42,300.00							
DL	100.00	100.00	100.00							

**Separator Solids DM2**Sample and source description: Separator Solids DM2Sample date: 04/17/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 77.9 %

	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	13,800.00	6,500.00	20,800.00	14,400.00	9,400.00	3,200.00	3,200.00	2,000.00		14.50
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

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

**Compost**Sample and source description: CompostSample date: 10/02/2023 Material type: Compost Source of analysis: Lab analysis Method of reporting: Dry-weight  
Moisture: 22.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,000.00	6,440.00	23,100.00	14,900.00	8,100.00	5,000.00	3,600.00			70.70
<b>DL</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00			0.01

**Chicken Solids**Sample and source description: Chicken SolidsSample date: 10/10/2023 Material type: Scraped material Source of analysis: Lab analysis Method of reporting: Dry-weight  
Moisture: 21.2 %

	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 (%)
<b>Value</b>	25,500.00	5,500.00	16,000.00							
<b>DL</b>	100.00	100.00	100.00							

**Corral Solids**Sample and source description: Corral SolidsSample date: 10/10/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight  
Moisture: 33.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,700.00	8,400.00	34,700.00							
<b>DL</b>	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: 18.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	5,300.00	16,000.00							
DL	100.00	100.00	100.00							

**Separator Solids**

Sample and source description: Separator Solids

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

Moisture: 80.2 %

	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	18,400.00	4,200.00	11,400.00							
DL	100.00	100.00	100.00							

**B. PROCESS WASTEWATER ANALYSES****4thQWW**

Sample and source description: 4thQWW

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	528.00	403.00	0.00	1.60	63.50	647.00								7,250.00	3,120
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

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**WW 1st Q NE Corner WWS #1**

Sample and source description: WW 1st Q NE Corner WWS #1

Sample date: 02/13/2023 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	431.00	230.00	0.00	1.00	60.30	726.00								6,550.00	3,250
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

**WW 2nd Q NE Corner WWS #1**

Sample and source description: WW 2nd Q NE Corner WWS #1

Sample date: 06/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	552.00	487.00	0.00	1.20	57.30	851.00								8,950.00	4,000
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

**WW 3rd Q NE Corner WWS #1**

Sample and source description: WW 3rd Q NE Corner WWS #1

Sample date: 09/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.80

	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	511.00	390.00	0.00	0.60	37.40	684.00	107.00	115.00	217.00	2,870.00	0.00	63.40	383.00	6,680.00	3,400
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

**Q4- NE Corner WWS 1**

Sample and source description: Q4- NE Corner WWS 1

Sample date: 10/25/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	465.00	396.00	0.00	1.20	34.40	694.00								7,140.00	3,500
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

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**C. FRESH WATER ANALYSES****11-5 Reservoir****CVF 11-5 Reservoir**

Sample description: CVF 11-5 Reservoir

Sample date: 07/25/2023 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	6.01		4.10								661.00	400
DL	1.00		0.10								10.00	10

**12-10 Reservoir****CVF 12-10**

Sample description: CVF 12-10

Sample date: 07/25/2023 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	3.06		3.00								400.00	225
DL	1.00		0.10								10.00	10

**15-1 Reservoir****IW 15-1 Reservoir**

Sample description: IW 15-1 Reservoir

Sample date: 07/25/2023 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	1.55		0.10								57.80	47
DL	1.00		0.10								10.00	10

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**6W Reservoir****CVF 6W Reservoir**

Sample description: CVF 6W Reservoir

Sample date: 07/25/2023 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	8.32		8.30								861.00	512
DL	1.00		0.10								10.00	10

**IW 11 (W)****CVF 11 (W)**

Sample description: CVF 11 (W)

Sample date: 07/25/2023 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	8.89		8.80								831.00	460
DL	1.00		0.10								10.00	10

**IW 11-5****CVF 11-5**

Sample description: CVF 11-5

Sample date: 07/25/2023 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	2.81		2.80								454.00	240
DL	1.00		0.10								10.00	10

**IW 12-10**

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**IW 12-10****CVF 12-10 Reservoir**Sample description: CVF 12-10 ReservoirSample date: 07/25/2023 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	4.94		4.90								519.00	417
DL	1.00		0.10								10.00	10

**IW 12-2****CVF 12-2**Sample description: CVF 12-2Sample date: 07/25/2023 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	2.77		2.70								341.00	183
DL	1.00		0.10								10.00	10

**CVF 12-2 Reservoir**Sample description: CVF 12-2 ReservoirSample date: 07/25/2023 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	2.12		2.10								429.00	242
DL	1.00		0.10								10.00	10

**IW 12-3**

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**IW 12-3****CVF 12-3**

Sample description: CVF 12-3

Sample date: 07/25/2023 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	3.04		2.90								396.00	197
DL	1.00		0.10								10.00	10

**IW 12-4****CVF 12-4**

Sample description: CVF 12-4

Sample date: 07/25/2023 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	8.55		8.00								646.00	423
DL	1.00		0.01								10.00	10

**IW 12-9****CVF 12-9**

Sample description: CVF 12-9

Sample date: 07/25/2023 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	6.95		1.50								476.00	253
DL	1.00		0.10								10.00	10

**IW 12B (W)**

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**IW 12B (W)****CVF 12B (W)**Sample description: CVF 12B (W)Sample date: 07/25/2023 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	14.80		14.80								1,300.00	977
DL	1.00		0.10								10.00	10

**IW 13-10****CVF 13-10**Sample description: CVF 13-10Sample date: 07/25/2023 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	1.92		1.90								543.00	318
DL	1.00		0.10								10.00	10

**IW 13-11****CVF 13-11**Sample description: CVF 13-11Sample date: 07/25/2023 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	11.30		11.30								723.00	320
DL	1.00		0.10								10.00	10

**IW 13-12**

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**IW 13-12****CVF 13-12**

Sample description: CVF 13-12

Sample date: 07/25/2023 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	14.30		14.30								841.00	667
DL	1.00		0.10								10.00	10

**IW 13-2****CVF 13-2**

Sample description: CVF 13-2

Sample date: 07/25/2023 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	2.30		2.10								598.00	368
DL	1.00		0.10								10.00	10

**IW 13-8****CVF 13-8**

Sample description: CVF 13-8

Sample date: 07/25/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	12.90		12.90								858.00	663
DL	1.00		0.10								10.00	10

**IW 14-10**

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**IW 14-10****CVF 14-10**

Sample description: CVF 14-10

Sample date: 07/25/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	31.20		31.20								1,220.00	645
DL	1.00		0.10								10.00	10

**IW 14-3****CVF 14-3**

Sample description: CVF 14-3

Sample date: 07/25/2023 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	45.90		45.90								1,520.00	820
DL	1.00		0.10								10.00	10

**IW 14-5****CVF 14-5**

Sample description: CVF 14-5

Sample date: 07/25/2023 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	53.90		53.60								1,880.00	1,020
DL	1.00		0.10								10.00	10

**IW 14-7**

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**IW 14-7****CVF 14-7**Sample description: CVF 14-7Sample date: 07/25/2023 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	1.88		1.70								649.00	345
DL	1.00		0.10								10.00	10

**IW 15-1****CVF 15-1**Sample description: CVF 15-1Sample date: 07/25/2023 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	7.06		7.00								474.00	307
DL	1.00		0.10								10.00	10

**IW 15-3****CVF 15-3**Sample description: CVF 15-3Sample date: 07/25/2023 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	17.20		17.20								1,130.00	650
DL	1.00		0.10								10.00	10

**IW 15-5**

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**IW 15-5****CVF 15-5**

Sample description: CVF 15-5

Sample date: 07/25/2023 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	45.60		45.40								1,660.00	915
DL	1.00		0.10								10.00	10

**IW 15-6****CVF 15-6**

Sample description: CVF 15-6

Sample date: 07/25/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	25.70		25.70								1,060.00	612
DL	1.00		0.10								10.00	10

**IW 16-1****CVF 16-1**

Sample description: CVF 16-1

Sample date: 07/25/2023 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										47.20	75
DL	1.00										10.00	10

**IW 16-2**

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**IW 16-2****CF 16-2**

Sample description: CF 16-2

Sample date: 07/25/2023 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	5.60		5.60								554.00	318
DL	1.00		0.10								10.00	10

**IW 16-5****CVF 16-5**

Sample description: CVF 16-5

Sample date: 07/25/2023 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	5.64		5.60								440.00	255
DL	1.00		0.10								10.00	10

**IW 16-6****CVF 16-6 Reservoir**

Sample description: CVF 16-6 Reservoir

Sample date: 07/25/2023 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	1.48		0.10								89.00	60
DL	1.00		0.10								10.00	10

**IW 1B-A (W)**

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

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

**IW 1B-A (W)****CVF 1B-A (W)**Sample description: CVF 1B-A (W)Sample date: 07/25/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	12.60		12.60								984.00	573
DL	1.00		0.10								10.00	10

**IW 1B-B (W)****IW 1B-B (W)**Sample description: IW 1B-B (W)Sample date: 07/25/2023 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	3.75		3.30								471.00	337
DL	1.00		0.10								10.00	10

**IW 2 (W)****CVF 2 (W)**Sample description: CVF 2 (W)Sample date: 07/25/2023 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	4.50		4.50								428.00	240
DL	1.00		0.10								10.00	10

**IW 3 (W)**

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

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

**IW 3 (W)****CVF 3 (W)**Sample description: CVF 3 (W)Sample date: 07/25/2023 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	4.80		4.80								556.00	350
DL	1.00		0.10								10.00	10

**IW 4 (W)****CVF 4 (W)**Sample description: CVF 4 (W)Sample date: 07/25/2023 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	3.99		3.20								346.00	190
DL	1.00		0.10								10.00	10

**IW 5 (W)****CVF 5 (W)**Sample description: CVF 5 (W)Sample date: 07/25/2023 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	4.10		4.10								362.00	217
DL	1.00		0.10								10.00	10

**IW 7 (W)**

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

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

**IW 7 (W)****CVF 7 (W)**Sample description: CVF 7 (W)Sample date: 07/25/2023 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	5.60		5.60								816.00	463
DL	1.00		0.10								10.00	10

**IW 8A (W)****CVF 8A (W)**Sample description: CVF 8A (W)Sample date: 07/25/2023 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	18.60		18.40								1,530.00	857
DL	1.00		0.10								10.00	10

**IW 8B (W)****CVF 8B (W)**Sample description: CVF 8B (W)Sample date: 07/25/2023 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	14.40		14.20								1,210.00	683
DL	1.00		0.10								10.00	10

**IW 9 (W)**

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

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

**IW 9 (W)****CVF 9 (W)**Sample description: CVF 9 (W)Sample date: 07/25/2023 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	5.90		5.90								831.00	473
DL	1.00		0.10								10.00	10

**MID CANAL****CVF MID Canal**Sample description: CVF MID CanalSample date: 07/25/2023 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										24.00	17
DL	1.00										10.00	10

**D. SOIL ANALYSES**

No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

11-5 - 10/01/2021: Alfalfa, hay

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

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

11-5 - 10/01/2021: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,600.00	2,600.00	16,200.00		26.56
DL	100.00	100.00	100.00		0.01

11-6 - 11/06/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	1,200.00	10,100.00		10.90
DL	100.00	100.00	100.00		0.01

11-6 - 06/28/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/07/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	1,200.00	4,200.00		24.59
DL	100.00	100.00	100.00		0.01

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

13-10 - 11/02/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,100.00	1,300.00	11,000.00		11.00
DL	100.00	100.00	100.00		0.01

13-10 - 05/21/2023: Sudangrass, silage

**Sudangrass Silage**Sample and source description: Sudangrass SilageSample date: 12/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 81.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,100.00	800.00	9,900.00		18.24
DL	100.00	100.00	100.00		0.01

13-12 - 10/21/2017: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,100.00	2,600.00	16,200.00		26.56
DL	100.00	100.00	100.00		0.01

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

13-2 - 11/21/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,500.00	1,200.00	11,000.00		10.60
DL	100.00	100.00	100.00		0.01

13-2 - 06/20/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,100.00	4,100.00		24.94
DL	100.00	100.00	100.00		0.01

13-3 - 10/28/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,700.00	1,200.00	9,400.00		17.10
DL	100.00	100.00	100.00		0.01

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

13-3 - 07/03/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	1,000.00	3,600.00		25.54
DL	100.00	100.00	100.00		0.01

13-4 - 11/18/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,400.00	1,300.00	10,500.00		10.30
DL	100.00	100.00	100.00		0.01

13-4 - 06/29/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/31/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	900.00	3,600.00		25.80
DL	100.00	100.00	100.00		0.01

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

13-6 - 11/20/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,700.00	1,200.00	10,800.00		10.80
DL	100.00	100.00	100.00		0.01

13-6 - 07/13/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/09/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	900.00	3,900.00		24.76
DL	100.00	100.00	100.00		0.01

13-8 - 11/17/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	1,300.00	11,300.00		11.60
DL	100.00	100.00	100.00		0.01

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

13-8 - 06/20/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,000.00	3,400.00		23.69
DL	100.00	100.00	100.00		0.01

14-10 - 10/01/2021: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,800.00	3,400.00	28,200.00		10.90
DL	100.00	100.00	100.00		0.01

14-11 - 11/02/2018: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,600.00	2,600.00	15,500.00		26.09
DL	100.00	100.00	100.00		0.01

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

14-2 - 10/29/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 72.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	1,400.00	9,300.00		11.80
DL	100.00	100.00	100.00		0.01

14-2 - 05/30/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 72.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	900.00	6,800.00		31.63
DL	100.00	100.00	100.00		0.01

14-3 - 10/28/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 04/23/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 55.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,500.00	700.00	9,700.00		9.30
DL	100.00	100.00	100.00		0.01

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

14-3 - 05/24/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/17/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	1,000.00	7,900.00		25.61
DL	100.00	100.00	100.00		0.01

14-5 - 11/02/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/05/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,300.00	1,300.00	10,900.00		11.50
DL	100.00	100.00	100.00		0.01

14-5 - 06/02/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 56.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	11,200.00	4,100.00		9.78
DL	100.00	100.00	100.00		0.01

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

14-6 - 10/21/2017: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,300.00	3,000.00	27,300.00		11.30
DL	100.00	100.00	100.00		0.01

14-7 - 10/29/2018: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,500.00	2,600.00	16,900.00		30.20
DL	100.00	100.00	100.00		0.01

14-9 - 10/09/2017: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,800.00	2,600.00	15,800.00		29.24
DL	100.00	100.00	100.00		0.01

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

15-1 - 11/15/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	1,100.00	9,600.00		11.80
DL	100.00	100.00	100.00		0.01

15-1 - 06/16/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,200.00	900.00	3,100.00		25.03
DL	100.00	100.00	100.00		0.01

15-3 - 10/29/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 06/06/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	1,200.00	9,800.00		17.80
DL	100.00	100.00	100.00		0.01

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

15-3 - 07/08/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	1,000.00	3,600.00		24.87
DL	100.00	100.00	100.00		0.01

15-4 - 10/30/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 73.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	1,400.00	8,600.00		11.60
DL	100.00	100.00	100.00		0.01

15-4 - 06/11/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	800.00	3,200.00		26.01
DL	100.00	100.00	100.00		0.01

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15-5A - 11/15/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 75.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	1,200.00	7,700.00		11.10
DL	100.00	100.00	100.00		0.01

15-5A - 06/21/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 67.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	900.00	3,800.00		25.30
DL	100.00	100.00	100.00		0.01

15-5B - 11/01/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 75.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	1,200.00	7,700.00		11.10
DL	100.00	100.00	100.00		0.01

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

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

15-5B - 06/06/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,000.00	5,800.00		13.66
DL	100.00	100.00	100.00		0.01

15-6 - 11/20/2022: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,800.00	3,400.00	27,600.00		10.60
DL	100.00	100.00	100.00		0.01

15-7 - 10/30/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	1,400.00	10,600.00		17.90
DL	100.00	100.00	100.00		0.01

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

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

15-7 - 07/04/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 63.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	1,100.00	4,000.00		24.42
DL	100.00	100.00	100.00		0.01

16-1 - 10/26/2020: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,700.00	2,800.00	16,200.00		27.09
DL	100.00	100.00	100.00		0.01

16-2 - 11/30/2020: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/30/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,300.00	3,200.00	27,300.00		10.80
DL	100.00	100.00	100.00		0.01

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

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

16-3 - 10/27/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 04/24/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 54.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,700.00	600.00	8,700.00		8.60
DL	100.00	100.00	100.00		0.01

16-3 - 05/22/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	1,300.00	6,400.00		21.03
DL	100.00	100.00	100.00		0.01

16-4 - 11/06/2020: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,300.00	3,100.00	29,000.00		10.90
DL	100.00	100.00	100.00		0.01

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

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

16-5 - 11/12/2022: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 10/26/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,000.00	2,600.00	15,300.00		26.42
DL	100.00	100.00	100.00		0.01

16-6 - 11/16/2020: Alfalfa, hay

**Alfalfa Hay**Sample and source description: Alfalfa HaySample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,000.00	2,600.00	16,300.00		26.41
DL	100.00	100.00	100.00		0.01

CVW 10 - 11/03/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,100.00	1,300.00	11,100.00		11.10
DL	100.00	100.00	100.00		0.01

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

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

CVW 10 - 06/12/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	1,100.00	4,000.00		25.32
DL	100.00	100.00	100.00		0.01

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

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,300.00	1,200.00	11,300.00		11.40
DL	100.00	100.00	100.00		0.01

CVW 12 - 06/15/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/16/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 68.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	900.00	3,700.00		25.39
DL	100.00	100.00	100.00		0.01

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

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

CVW 3 - 11/12/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,500.00	1,300.00	8,800.00		10.50
DL	100.00	100.00	100.00		0.01

CVW 3 - 06/12/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 72.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	1,200.00	7,300.00		8.91
DL	100.00	100.00	100.00		0.01

CVW 4 - 11/22/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	1,200.00	8,400.00		10.30
DL	100.00	100.00	100.00		0.01

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

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

CVW 4 - 06/21/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/31/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,900.00	1,000.00	3,600.00		24.59
DL	100.00	100.00	100.00		0.01

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

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,100.00	8,800.00		10.60
DL	100.00	100.00	100.00		0.01

CVW 5 - 06/24/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/26/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 70.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	900.00	4,600.00		25.75
DL	100.00	100.00	100.00		0.01

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

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

CVW 9 - 11/08/2022: Wheat, silage, soft dough

**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,300.00	10,900.00		11.00
DL	100.00	100.00	100.00		0.01

CVW 9 - 06/14/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	1,300.00	4,600.00		24.21
DL	100.00	100.00	100.00		0.01

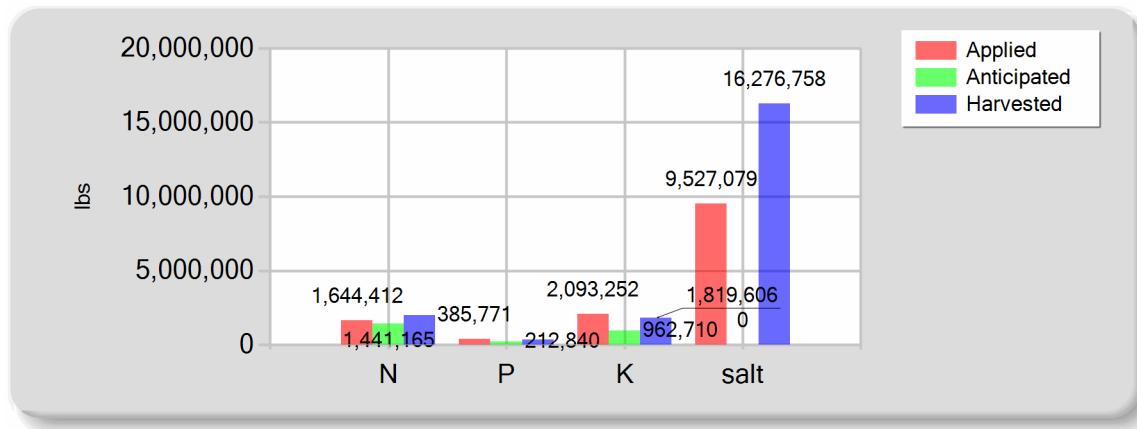
**F. SUBSURFACE (TILE) DRAINAGE ANALYSES***No subsurface (tile) drainage analyses entered.*

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

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

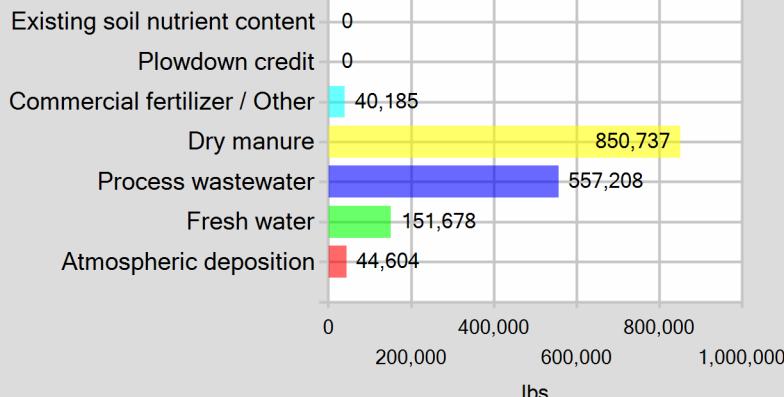
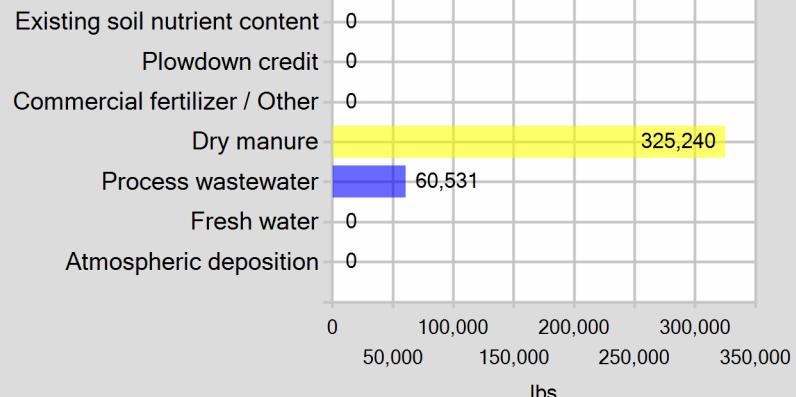
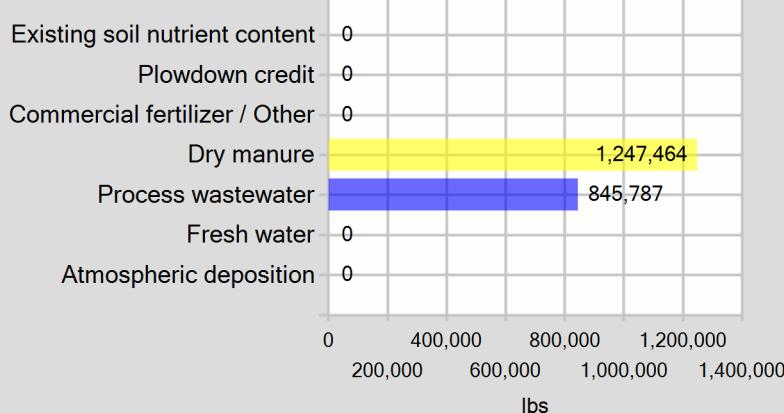
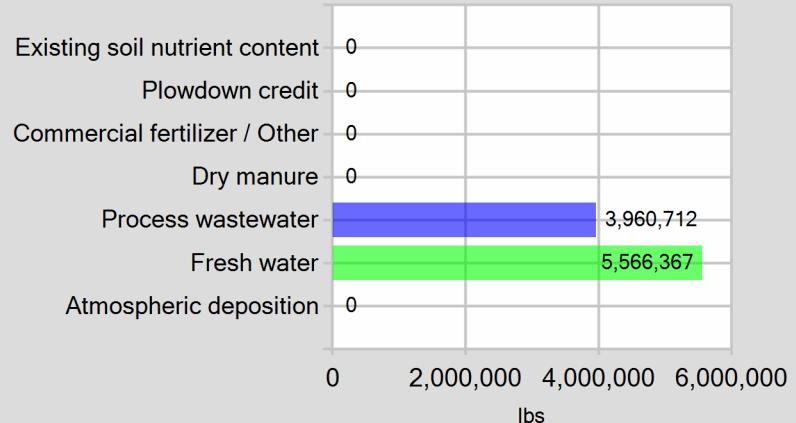
**NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE****A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	40,184.91	0.00	0.00	0.00
Dry manure	850,737.42	325,239.88	1,247,464.11	0.00
Process wastewater	557,208.20	60,531.48	845,787.45	3,960,712.25
Fresh water	151,677.70	0.00	0.00	5,566,367.15
Atmospheric deposition	44,604.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>1,644,412.23</b>	<b>385,771.36</b>	<b>2,093,251.56</b>	<b>9,527,079.39</b>
Anticipated crop nutrient removal	1,441,164.80	212,840.00	962,710.20	0.00
Actual crop nutrient removal	1,973,327.76	349,899.92	1,819,606.33	16,276,758.02
<b>Nutrient balance</b>	<b>-328,915.53</b>	<b>35,871.44</b>	<b>273,645.23</b>	<b>-6,749,678.63</b>
Applied to removed ratio	0.83	1.10	1.15	0.59

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

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

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

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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

**C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES**

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

Was the facility's NMP updated in the reporting period? Yes \_\_\_\_\_

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

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

**ADDITIONAL NOTES**

**A. NOTES**

Precipitation utilized during winter months to meet forage freshwater requirements.

Irrigation wells 12A(W), 13-4, 14-2, 14-4, 16-4 & 16-6 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.

Field CVW 5 Corn had a lower than anticipated removal rate due to lower than anticipated %N. This resulted in field ratios slightly exceeding target limits.

Fields 13-2 Wheat, 13-6 Wheat, 16-3 Wheat, 13-2 Sudan, 14-5 Corn, 15-1 Corn, 15-5B Corn, 15-7 Corn, CVW 4 Corn, 11-5 Alfalfa, 13-12 Alfalfa, 14-7 Alfalfa, 14-9 Alfalfa, 14-10 Alfalfa, 16-1 Alfalfa, & 16-6 Alfalfa had higher than anticipated removal rates. This was due to higher than expected %N and/or yield. The %N removed, which is based on analysis derived through a certified laboratory, exceeded the anticipated values for this crop. Appropriate management practices resulted in decent yields and/or higher than expected nutrient removal rates.

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 11-1, 11-2, 11-3, 11-4, 12-1, 12-2, 12-3, 12-4, 12-5, 12-6, 12-7, 12-8, 12-9, 12-10, 13-7, 13-11, CVW 1A, CVW 1B, CVW 2, CVW 6, CVW 7, CVW 8, & CVW 11 Almonds and 13-1, 13-5, 13-9, 14-1, 14-4, & 14-8 managed wetlands were removed from the Dairy General Order and are now covered by the East San Joaquin Water Quality Coalition.

**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:

Larry Pietrowski

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SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Larry Pietrowski

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

6/19/2024

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: Larry PietrowskiName of Dairy Facility: Costa View Farms

Facility Address:

16800 Road 15 Number and Street	Madera City	Madera County	93637 Zip Code
------------------------------------	----------------	------------------	-------------------

Contact Person Name and Phone Number:	<u>Larry Pietrowski</u> Name	(559) 706-2051 Phone Number
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**MANURE HAULER INFORMATION**Name of Hauling Company/Person: Kenneth R Stone Spreading Services

Address of Hauling Company/Person:

5175 Shaw AVE Number and Street	Winton City	CA State	95388 Zip Code
------------------------------------	----------------	-------------	-------------------

Contact Person:	<u>Paul Stone</u> Name	(209) 756-1491 Phone Number
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**DESTINATION INFORMATION**Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Costa View Farms Almond Ranch Name	(559) 706-2051 Phone Number
---------------------------------------	--------------------------------

16800 Road 15 Address	Madera City	CA State	93637 Zip Code
--------------------------	----------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

16800 Road 15 Address	Madera City	93637 Zip Code
--------------------------	----------------	-------------------

Street and nearest cross street (if no address)	Madera County
-------------------------------------------------	------------------

Assessor's Parcel Number   Assessor's Parcel Number County  Last date hauled: 12/09/2023

**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: 10,035.00 tons

Manure Solids Content: 81.9 %

Method used to determine amount of manure:

Number of loads multiplied by load weight

**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:

  
Larry Pietrowski

6/19/2024

1B6F5A44BC2A428  
Operator Signature

Date

  
Paul Stones

6/19/2024

1B6F5A44BC2A428  
Hauler Signature

Date



Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:58

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1819-01	CVF 1B-A (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:08
23G1819-02	CVF 1B-B (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:04
23G1819-03	CVF 2 (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:01
23G1819-04	CVF 3 (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:53
23G1819-05	CVF 4 (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:40
23G1819-06	CVF 5 (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:37
23G1819-07	CVF 7 (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:26
23G1819-08	CVF 8A (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:19
23G1819-09	CVF 8B (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:13
23G1819-10	CVF 9 (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:23

Default Cooler      Temperature on Receipt °C: -1.6  
 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.

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:58

### Sample Results

**Sample: CVF 1B-A (W)  
23G1819-01 (Water)**

Sampled: 7/25/2023 12:08  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.98</b>	mmhos/cm	0.01	1		07/28/23 11:26	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>984</b>	umhos/cm	10.0	1		07/28/23 11:26	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>12.6</b>	mg/L	0.1	1	10	07/25/23 19:06	EPA 300.0		BEG0909
<b>pH</b>	<b>7.4</b>	units	1.0	1		07/28/23 11:26	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>573</b>	mg/L	10.0	1		07/28/23 15:53	SM 2540 C		BEG0941
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:26	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 12:52	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>12.6</b>	mg/L	1.00	1		07/31/23 12:52	SM 4500-NH3 C		BEG1107

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**Sample: CVF 1B-B (W)  
23G1819-02 (Water)**

Sampled: 7/25/2023 12:04

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.47</b>	mmhos/cm	0.01	1		07/28/23 11:28	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>471</b>	umhos/cm	10.0	1		07/28/23 11:28	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>3.3</b>	mg/L	0.1	1	10	07/25/23 19:25	EPA 300.0		BEG0909
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 11:28	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>337</b>	mg/L	10.0	1		07/28/23 15:53	SM 2540 C		BEG0941
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:28	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 12:54	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>3.75</b>	mg/L	1.00	1		07/31/23 12:54	SM 4500-NH3 C		BEG1107

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**Sample: CVF 2 (W)  
23G1819-03 (Water)**

Sampled: 7/25/2023 12:01

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.43</b>	mmhos/cm	0.01	1		07/28/23 11:29	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>428</b>	umhos/cm	10.0	1		07/28/23 11:29	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>4.5</b>	mg/L	0.1	1	10	07/25/23 19:45	EPA 300.0		BEG0909
<b>pH</b>	<b>7.8</b>	units	1.0	1		07/28/23 11:29	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>240</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:29	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 12:56	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>4.47</b>	mg/L	1.00	1		07/31/23 12:56	SM 4500-NH3 C		BEG1107

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**Sample: CVF 3 (W)  
23G1819-04 (Water)**

Sampled: 7/25/2023 11:53

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.56</b>	mmhos/cm	0.01	1		07/28/23 11:31	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>556</b>	umhos/cm	10.0	1		07/28/23 11:31	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>4.8</b>	mg/L	0.1	1	10	07/25/23 22:24	EPA 300.0		BEG0909
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 11:31	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>350</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:31	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 12:57	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>4.77</b>	mg/L	1.00	1		07/31/23 12:57	SM 4500-NH3 C		BEG1107

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**Sample: CVF 4 (W)  
23G1819-05 (Water)**

Sampled: 7/25/2023 11:40

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.35</b>	mmhos/cm	0.01	1		07/28/23 11:32	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>346</b>	umhos/cm	10.0	1		07/28/23 11:32	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>3.2</b>	mg/L	0.1	1	10	07/25/23 22:44	EPA 300.0		BEG0909
<b>pH</b>	<b>7.9</b>	units	1.0	1		07/28/23 11:32	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>190</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:32	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 12:59	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>3.99</b>	mg/L	1.00	1		07/31/23 12:59	SM 4500-NH3 C		BEG1107

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**Sample: CVF 5 (W)  
23G1819-06 (Water)**

Sampled: 7/25/2023 11:37

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.36</b>	mmhos/cm	0.01	1		07/28/23 11:34	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>362</b>	umhos/cm	10.0	1		07/28/23 11:34	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>4.1</b>	mg/L	0.1	1	10	07/25/23 23:04	EPA 300.0		BEG0909
<b>pH</b>	<b>7.9</b>	units	1.0	1		07/28/23 11:34	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>217</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:34	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:08	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>4.10</b>	mg/L	1.00	1		07/31/23 13:08	SM 4500-NH3 C		BEG1107

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**Sample: CVF 7 (W)  
23G1819-07 (Water)**

Sampled: 7/25/2023 12:26

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.82</b>	mmhos/cm	0.01	1		07/28/23 11:35	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>816</b>	umhos/cm	10.0	1		07/28/23 11:35	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>5.6</b>	mg/L	0.1	1	10	07/25/23 23:23	EPA 300.0		BEG0909
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 11:35	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>463</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:35	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:10	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>5.58</b>	mg/L	1.00	1		07/31/23 13:10	SM 4500-NH3 C		BEG1107

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**Sample: CVF 8A (W)  
23G1819-08 (Water)**

Sampled: 7/25/2023 12:19

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.53</b>	mmhos/cm	0.01	1		07/28/23 11:41	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>1530</b>	umhos/cm	10.0	1		07/28/23 11:41	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>18.4</b>	mg/L	0.1	1	10	07/25/23 23:43	EPA 300.0		BEG0909
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 11:41	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>857</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:41	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:11	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>18.6</b>	mg/L	1.00	1		07/31/23 13:11	SM 4500-NH3 C		BEG1107

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**Sample: CVF 8B (W)  
23G1819-09 (Water)**

Sampled: 7/25/2023 12:13

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.21</b>	mmhos/cm	0.01	1		07/28/23 11:43	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>1210</b>	umhos/cm	10.0	1		07/28/23 11:43	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>14.2</b>	mg/L	0.1	1	10	07/26/23 00:03	EPA 300.0		BEG0909
<b>pH</b>	<b>7.5</b>	units	1.0	1		07/28/23 11:43	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>683</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:43	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:13	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>14.4</b>	mg/L	1.00	1		07/31/23 13:13	SM 4500-NH3 C		BEG1107

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**Sample: CVF 9 (W)  
23G1819-10 (Water)**

Sampled: 7/25/2023 12:23

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.83</b>	mmhos/cm	0.01	1		07/28/23 11:51	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>831</b>	umhos/cm	10.0	1		07/28/23 11:51	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>5.9</b>	mg/L	0.1	1	10	07/26/23 00:23	EPA 300.0		BEG0909
<b>pH</b>	<b>7.5</b>	units	1.0	1		07/28/23 11:51	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>473</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:51	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:14	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>5.89</b>	mg/L	1.00	1		07/31/23 13:14	SM 4500-NH3 C		BEG1107

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0909</b>									
<b>Blank (BEG0909-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/25/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/25/2023				
<b>Blank (BEG0909-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 7/25/2023 Analyzed: 7/26/2023				
<b>LCS (BEG0909-BS1)</b>									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	100	90-110			
<b>LCS (BEG0909-BS2)</b>									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	104	90-110			
<b>Duplicate (BEG0909-DUP1)</b>									
Nitrate Nitrogen as NO3N	9.2	0.1	mg/L	9.0			2.08	10	
<b>Duplicate (BEG0909-DUP2)</b>									
Nitrate Nitrogen as NO3N	3.2	0.1	mg/L	3.2			1.68	10	
<b>Matrix Spike (BEG0909-MS1)</b>									
Nitrate Nitrogen as NO3N	14.6	0.1	mg/L	5.000	9.0	112	90-110		
<b>Matrix Spike (BEG0909-MS2)</b>									
Nitrate Nitrogen as NO3N	8.3	0.1	mg/L	5.000	3.2	103	90-110		
<b>Reference (BEG0909-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00	104	90-110			
<b>Reference (BEG0909-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00	102	90-110			
<b>Reference (BEG0909-SRM3)</b>									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0941</b>									
<b>Blank (BEG0941-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023				
<b>LCS (BEG0941-BS1)</b>									
Total Filterable Solids (TDS)	37.5	10.0	mg/L	2000	Prepared: 7/25/2023 Analyzed: 7/28/2023	1.88	0-200		
<b>Duplicate (BEG0941-DUP1)</b>									
Total Filterable Solids (TDS)	2830	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	2750		2.87	10
<b>Duplicate (BEG0941-DUP2)</b>									
Total Filterable Solids (TDS)	313	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	337		7.18	10
<b>Reference (BEG0941-SRM1)</b>									
Total Filterable Solids (TDS)	353		mg/L	325.0	Prepared: 7/25/2023 Analyzed: 7/28/2023	109	90-110		
<b>Reference (BEG0941-SRM2)</b>									
Total Filterable Solids (TDS)	530		mg/L	495.0	Prepared: 7/25/2023 Analyzed: 7/28/2023	107	90-110		

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Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:58

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0947</b>									
<b>Blank (BEG0947-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023				
<b>LCS (BEG0947-BS1)</b>									
Total Filterable Solids (TDS)	20.0	10.0	mg/L	2000	Prepared: 7/25/2023 Analyzed: 7/28/2023	1.00	0-200		
<b>Duplicate (BEG0947-DUP1)</b>									
Total Filterable Solids (TDS)	240	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	240		0.00	10
<b>Duplicate (BEG0947-DUP2)</b>									
Total Filterable Solids (TDS)	420	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	423		0.791	10
<b>Reference (BEG0947-SRM1)</b>									
Total Filterable Solids (TDS)	313		mg/L	325.0	Prepared: 7/25/2023 Analyzed: 7/28/2023	96.4	90-110		
<b>Reference (BEG0947-SRM2)</b>									
Total Filterable Solids (TDS)	483		mg/L	495.0	Prepared: 7/25/2023 Analyzed: 7/28/2023	97.6	90-110		

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:58

## Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0956</b>									
<b>Blank (BEG0956-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	6.2	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0956-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0956-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.1	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEG0956-DUP1)</b>									
<b>Source: 23G1819-03</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	0.43	0.01	mmhos/cm		0.43		0.0233	10	
pH	7.8	1.0	units		7.8		0.641	10	
Electrical Conductivity umhos	429	10.0	umhos/cm		428		0.0233	10	
<b>Duplicate (BEG0956-DUP2)</b>									
<b>Source: 23G1821-05</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	0.55	0.01	mmhos/cm		0.55		0.707	10	
pH	7.7	1.0	units		7.6		0.654	10	
Electrical Conductivity umhos	550	10.0	umhos/cm		554		0.707	10	
<b>Reference (BEG0956-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	581	umhos/cm	538.0		108	90-110			
<b>Reference (BEG0956-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8	units	5.820		100	28178-101.7			
<b>Reference (BEG0956-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0956-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0956-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1070	umhos/cm	1000		107	90-110			

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:58

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0956 (Continued)</b>									
<b>Reference (BEG0956-SRM5)</b>									
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
<b>Reference (BEG0956-SRM6)</b>									
pH	4.0		units	4.000		99.2	97.5-102.5		
<b>Reference (BEG0956-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0956-SRM8)</b>									
pH	4.0		units	4.000		99.8	97.5-102.5		

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:58

## **Quality Control (Continued)**

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07/25/23 15:40

23G1819

Purchase Order No

Bill To: 8815 | uu  
Acc# J6 Cons #  
DWS 8/1/23

Results Need By

Name: Costa View Farms

Address: 16800 Road 15

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: ginam.costaviewfarms@gmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Larry Pietrowski

PROJECT:

CROP: IRRIGATION WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By: F&amp;R AG

## DELLAVALLE LABORATORY, INC.

910 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:

Water Type:  Drinking Water  Wastewater  
 Ag Water  Groundwater  Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

## Description of Samples

1	CVF 1B-A (w)
2	CVF 1B-B (w)
3	CVF 2(w)
4	CVF 3(w)
5	CVF 4(w)
6	CVF 5(w)
7	CVF 7(w)
8	CVF 8A(w)
9	CVF 8B(w)
10	CVF 9(w)

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N PURGE
7/25/23	1208	-0.8 -1.6	>45MIN
	1204	+1.1 -0.9	
	1201	0.4	
	1153	-0.3	
	1140	0.8	
	1137	-0.9	
	1226	-1.6	
	1219	-1.2	
	1213	-1.1	
	1223	0.8	

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	7/25/23 1226	7/25/23
Second				
Third				
Fourth	JDR	DLR	7/25/23 15:40	

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 pay 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



07/25/23 15:40

23G1819

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>																																																																																																																																																																																																																							
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest																																																																																																																																																																																																																		
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>																																																																																																																																																																																																																		
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> were:					<input type="checkbox"/> Received Preserved		<input type="checkbox"/> Preserved Upon Receipt at Laboratory																																																																																																																																																																																																																
Type of Container(s) Received	Sample Number																																																																																																																																																																																																																						
	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																													
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)																																																																																																																																																																																																																							
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																																						
	250 mL unpreserved (White) Plastic																																																																																																																																																																																																																						
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																																																																																																																																						
	* pH Value																																																																																																																																																																																																																						
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	1	1	1	1	1	1	1	1	1	1																																																																																																																																																																																																												
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	500 mL unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1																																																																																																																																																																																																												
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1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																																																							
Special	500mL unpreserved (White) Glass																																																																																																																																																																																																																						
	PO4-P Kit																																																																																																																																																																																																																						
	Other:																																																																																																																																																																																																																						
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)																																																																																																																																																																																																																							
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																																						
	250 mL unpreserved (White) Plastic																																																																																																																																																																																																																						
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																																																																																																																																						
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic																																																																																																																																																																																																																						
	500 mL HNO <sub>3</sub> (Red)																																																																																																																																																																																																																						
	1 L unpreserved (White) Plastic																																																																																																																																																																																																																						
	1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																																																						
VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																																																																																																																																						
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)																																																																																																																																																																																																																						
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)																																																																																																																																																																																																																						
	40mL AG VOA unpreserved (White) (Set of 3)																																																																																																																																																																																																																						
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																																						
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)																																																																																																																																																																																																																						
	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																																																																																																																																						
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										250 mL AG unpreserved (White)										250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)											250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA											500 mL glass unpreserved (White)											500 mL AG HCl (Blue)											Special	1 L AG unpreserved (White)										1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										1 L AG HCl (Blue)											Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>											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:										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																																						
	250 mL AG unpreserved (White)																																																																																																																																																																																																																						
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	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																																						
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA																																																																																																																																																																																																																						
	500 mL glass unpreserved (White)																																																																																																																																																																																																																						
500 mL AG HCl (Blue)																																																																																																																																																																																																																							
Special	1 L AG unpreserved (White)										1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										1 L AG HCl (Blue)											Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>											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:																																																																																					
	1 L AG unpreserved (White)																																																																																																																																																																																																																						
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)																																																																																																																																																																																																																						
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																																						
	1 L AG HCl (Blue)																																																																																																																																																																																																																						
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>																																																																																																																																																																																																																						
	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																																																																																																																																																																																																																							
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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1821-01	CVF 15-3	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 9:37
23G1821-02	CVF 15-5	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 13:11
23G1821-03	CVF 15-6	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 9:56
23G1821-04	CVF 16-1	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 9:29
23G1821-05	CVF 16-2	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 9:42
23G1821-06	CVF 16-5	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 8:58

Default Cooler      Temperature on Receipt °C: 1.1  
 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.

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

### Sample Results

**Sample: CVF 15-3  
23G1821-01 (Water)**

Sampled: 7/25/2023 9:37  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.13</b>	mmhos/cm	0.01	1		07/28/23 11:54	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>1130</b>	umhos/cm	10.0	1		07/28/23 11:54	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>17.2</b>	mg/L	0.1	1	10	07/26/23 19:24	EPA 300.0		BEG0970
<b>pH</b>	<b>7.5</b>	units	1.0	1		07/28/23 11:54	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>650</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:54	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/27/23 15:42	SM 4500-NH3 C		BEG0965
<b>Total Nitrogen</b>	<b>17.2</b>	mg/L	1.00	1		07/27/23 15:42	SM 4500-NH3 C		BEG0965

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

**Sample: CVF 15-5  
23G1821-02 (Water)**

Sampled: 7/25/2023 13:11

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.66</b>	mmhos/cm	0.01	1		07/28/23 11:55	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>1660</b>	umhos/cm	10.0	1		07/28/23 11:55	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>45.4</b>	mg/L	0.1	1	10	07/26/23 19:44	EPA 300.0		BEG0970
<b>pH</b>	<b>7.3</b>	units	1.0	1		07/28/23 11:55	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>915</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:55	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/27/23 15:43	SM 4500-NH3 C		BEG0965
<b>Total Nitrogen</b>	<b>45.6</b>	mg/L	1.00	1		07/27/23 15:43	SM 4500-NH3 C		BEG0965

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

**Sample: CVF 15-6  
23G1821-03 (Water)**

Sampled: 7/25/2023 9:56

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.06</b>	mmhos/cm	0.01	1		07/28/23 11:57	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>1060</b>	umhos/cm	10.0	1		07/28/23 11:57	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>25.7</b>	mg/L	0.1	1	10	07/26/23 20:04	EPA 300.0		BEG0970
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 11:57	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>612</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:57	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/27/23 15:45	SM 4500-NH3 C		BEG0965
<b>Total Nitrogen</b>	<b>25.7</b>	mg/L	1.00	1		07/27/23 15:45	SM 4500-NH3 C		BEG0965

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

**Sample: CVF 16-1  
23G1821-04 (Water)**

Sampled: 7/25/2023 9:29

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.05</b>	mmhos/cm	0.01	1		07/28/23 11:58	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>47.2</b>	umhos/cm	10.0	1		07/28/23 11:58	SM 2510 B		BEG0956
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	07/26/23 20:23	EPA 300.0		BEG0970
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 11:58	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>75.0</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 11:58	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/27/23 15:46	SM 4500-NH3 C		BEG0965
Total Nitrogen	ND	mg/L	1.00	1		07/27/23 15:46	SM 4500-NH3 C		BEG0965

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

**Sample: CVF 16-2  
23G1821-05 (Water)**

Sampled: 7/25/2023 9:42

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.55</b>	mmhos/cm	0.01	1		07/28/23 12:00	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>554</b>	umhos/cm	10.0	1		07/28/23 12:00	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>5.6</b>	mg/L	0.1	1	10	07/26/23 20:43	EPA 300.0		BEG0970
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 12:00	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>318</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 12:00	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/27/23 15:48	SM 4500-NH3 C		BEG0965
<b>Total Nitrogen</b>	<b>5.56</b>	mg/L	1.00	1		07/27/23 15:48	SM 4500-NH3 C		BEG0965

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

**Sample: CVF 16-5**  
**23G1821-06 (Water)**

Sampled: 7/25/2023 8:58

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.44</b>	mmhos/cm	0.01	1		07/28/23 12:01	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>440</b>	umhos/cm	10.0	1		07/28/23 12:01	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>5.6</b>	mg/L	0.1	1	10	07/26/23 21:03	EPA 300.0		BEG0970
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 12:01	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>255</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 12:01	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/27/23 15:49	SM 4500-NH3 C		BEG0965
<b>Total Nitrogen</b>	<b>5.64</b>	mg/L	1.00	1		07/27/23 15:49	SM 4500-NH3 C		BEG0965

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0947</b>									
<b>Blank (BEG0947-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023				
<b>LCS (BEG0947-BS1)</b>									
Total Filterable Solids (TDS)	20.0	10.0	mg/L	2000	Prepared: 7/25/2023 Analyzed: 7/28/2023	1.00	0-200		
<b>Duplicate (BEG0947-DUP1)</b>									
Total Filterable Solids (TDS)	240	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	240		0.00	10
<b>Duplicate (BEG0947-DUP2)</b>									
Total Filterable Solids (TDS)	420	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	423		0.791	10
<b>Reference (BEG0947-SRM1)</b>									
Total Filterable Solids (TDS)	313		mg/L	325.0	Prepared: 7/25/2023 Analyzed: 7/28/2023	96.4	90-110		
<b>Reference (BEG0947-SRM2)</b>									
Total Filterable Solids (TDS)	483		mg/L	495.0	Prepared: 7/25/2023 Analyzed: 7/28/2023	97.6	90-110		

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

## Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0956</b>									
<b>Blank (BEG0956-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0956-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0956-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.1	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Duplicate (BEG0956-DUP1)</b>									
<b>Source: 23G1819-03</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.8	1.0	units		7.8		0.641	10	
Electrical Conductivity	0.43	0.01	mmhos/cm		0.43		0.0233	10	
Electrical Conductivity umhos	429	10.0	umhos/cm		428		0.0233	10	
<b>Duplicate (BEG0956-DUP2)</b>									
<b>Source: 23G1821-05</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	0.55	0.01	mmhos/cm		0.55		0.707	10	
pH	7.7	1.0	units		7.6		0.654	10	
Electrical Conductivity umhos	550	10.0	umhos/cm		554		0.707	10	
<b>Reference (BEG0956-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	581	umhos/cm	538.0		108	90-110			
<b>Reference (BEG0956-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8	units	5.820		100	28178-101.7			
<b>Reference (BEG0956-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0956-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0956-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1070	umhos/cm	1000		107	90-110			

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Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
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Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0956 (Continued)</b>									
<b>Reference (BEG0956-SRM5)</b>									
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
<b>Reference (BEG0956-SRM6)</b>									
pH	4.0		units	4.000		99.2	97.5-102.5		
<b>Reference (BEG0956-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0956-SRM8)</b>									
pH	4.0		units	4.000		99.8	97.5-102.5		

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

## **Quality Control (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEG0965</b>									
<b>Blank (BEG0965-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 7/26/2023 Analyzed: 7/27/2023				
Total Nitrogen	ND	1.00	mg/L						
<b>Blank (BEG0965-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 7/26/2023 Analyzed: 7/27/2023				
Total Nitrogen	ND	1.00	mg/L						
<b>LCS (BEG0965-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total	5.63	1.00	mg/L	5.709		98.6	90-110		
<b>LCS (BEG0965-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total	5.85	1.00	mg/L	5.709		103	90-110		
<b>Duplicate (BEG0965-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		Prepared: 7/26/2023 Analyzed: 7/27/2023				
					ND				10
<b>Duplicate (BEG0965-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		Prepared: 7/26/2023 Analyzed: 7/27/2023				
					ND				10
<b>Matrix Spike (BEG0965-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total	8.87	1.40	mg/L	7.992		111	90-110		
<b>Matrix Spike (BEG0965-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total	5.23	1.40	mg/L	7.992		65.5	90-110		
<b>Reference (BEG0965-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total	24.7		mg/L	23.80		104	90-110		
					Prepared: 7/26/2023 Analyzed: 7/27/2023				

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 07/31/2023 11:09

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0970</b>									
<b>Blank (BEG0970-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/26/2023				
<b>Blank (BEG0970-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/26/2023				
<b>Blank (BEG0970-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 7/26/2023 Analyzed: 7/27/2023				
<b>LCS (BEG0970-BS1)</b>									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000	108	90-110			
<b>LCS (BEG0970-BS2)</b>									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000	108	90-110			
<b>Duplicate (BEG0970-DUP1)</b>									
Nitrate Nitrogen as NO3N	2.8	0.1	mg/L	2.7			0.948	10	
<b>Duplicate (BEG0970-DUP2)</b>									
Nitrate Nitrogen as NO3N	2.8	0.1	mg/L	2.9			4.26	10	
<b>Matrix Spike (BEG0970-MS1)</b>									
Nitrate Nitrogen as NO3N	8.2	0.1	mg/L	5.000	2.7	110	90-110		
<b>Matrix Spike (BEG0970-MS2)</b>									
Nitrate Nitrogen as NO3N	8.2	0.1	mg/L	5.000	2.9	106	90-110		
<b>Reference (BEG0970-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.8		mg/L	10.00	108	90-110			
<b>Reference (BEG0970-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.7		mg/L	10.00	107	90-110			
<b>Reference (BEG0970-SRM3)</b>									
Nitrate Nitrogen as NO3N	10.8		mg/L	10.00	108	90-110			

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07/25/23 15:40

23G1821

Purchase Order No.

Bill To: Acct # *501* Cons #

Results Need By

Name: Costa View Farms

Address: 16800 Road 15

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: ginam.costaviewfarms@gmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Larry Pietrowski

PROJECT:

CROP: IRRIGATION WELLS

 Copy of Chain  QA/QC DocumentsSampled By: *F&R Ag*

## 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: *6*

No of Bottles:

 Drinking Water  Wastewater Ag Water  Groundwater  Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis) DWW1: EC, NO<sub>3</sub>-N NH<sub>4</sub>-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

 Other

## Description of Samples

1	CVF 15-3
2	CVF 15-5
3	CVF 15-6
4	CVF 16-1
5	CVF 16-2
6	CVF 16-5
7	
8	
9	
10	

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N PURGE
7/25/23	0937	1.1	45 min
	1311	-0.8	
	0956	0.2	
	0929	-0.4	
	0942	0.4	
	0858	-0.67	

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	7/25/23 1311	7/25/23
Second				
Third				
Fourth	<i>JRS</i>	D.L.I	7/25/23 15:46	

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



07/25/23 15:40

23G1821

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>																																																																																																																																																																																																									
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest																																																																																																																																																																																																				
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>																																																																																																																																																																																																				
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b>					<input type="checkbox"/> Received Preserved		<input type="checkbox"/> Preserved Upon Receipt at Laboratory																																																																																																																																																																																																		
Type of Container(s) Received	Sample Number																																																																																																																																																																																																								
	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																															
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)																																																																																																																																																																																																									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
	250 mL unpreserved (White) Plastic																																																																																																																																																																																																								
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																																																																																																																								
	* pH Value																																																																																																																																																																																																								
	250 mL H <sub>2</sub> SO <sub>4</sub> (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:																																																																																																																																																																																																								
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)																																																																																																																																																																																																									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
	250 mL unpreserved (White) Plastic																																																																																																																																																																																																								
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																																																																																																																								
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic																																																																																																																																																																																																								
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	1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																																								
VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																																																																																																																								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)																																																																																																																																																																																																								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)																																																																																																																																																																																																								
	40mL AG VOA unpreserved (White) (Set of 3)																																																																																																																																																																																																								
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																								
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)																																																																																																																																																																																																								
	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																																																																																																																								
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										250 mL AG unpreserved (White)										250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										500 mL glass unpreserved (White)										500 mL AG HCl (Blue)										Special	1 L AG unpreserved (White)										1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										1 L AG HCl (Blue)										Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										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:									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																								
	250 mL AG unpreserved (White)																																																																																																																																																																																																								
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)																																																																																																																																																																																																								
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
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	500 mL glass unpreserved (White)																																																																																																																																																																																																								
500 mL AG HCl (Blue)																																																																																																																																																																																																									
Special	1 L AG unpreserved (White)										1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										1 L AG HCl (Blue)										Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										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:																																																																																
	1 L AG unpreserved (White)																																																																																																																																																																																																								
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	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
	1 L AG HCl (Blue)																																																																																																																																																																																																								
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>																																																																																																																																																																																																								
	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																																																																																																																																																																																																									
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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1824-01	CVF 11 (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:29
23G1824-02	CVF 12B (W)	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:34
23G1824-03	CVF 11-5	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:30
23G1824-04	CVF 12-2	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:39
23G1824-05	CVF 12-3	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:05
23G1824-06	CVF 12-4	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 10:43
23G1824-07	CVF 12-9	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:12
23G1824-08	CVF 12-10	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 11:19
23G1824-09	CVF 13-2	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:48

Default Cooler      Temperature on Receipt °C: -1.6  
 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.

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

### Sample Results

**Sample: CVF 11 (W)  
23G1824-01 (Water)**

Sampled: 7/25/2023 12:29  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.83</b>	mmhos/cm	0.01	1		07/28/23 12:03	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>831</b>	umhos/cm	10.0	1		07/28/23 12:03	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>8.8</b>	mg/L	0.1	1	10	07/26/23 21:23	EPA 300.0		BEG0970
<b>pH</b>	<b>7.8</b>	units	1.0	1		07/28/23 12:03	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>460</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 12:03	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:35	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>8.89</b>	mg/L	1.00	1		07/28/23 15:35	SM 4500-NH3 C		BEG1051

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

**Sample: CVF 12B (W)  
23G1824-02 (Water)**

Sampled: 7/25/2023 11:34

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.30</b>	mmhos/cm	0.01	1		07/28/23 12:04	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>1300</b>	umhos/cm	10.0	1		07/28/23 12:04	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>14.8</b>	mg/L	0.1	1	10	07/26/23 21:43	EPA 300.0		BEG0970
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 12:04	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>977</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 12:04	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:37	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>14.8</b>	mg/L	1.00	1		07/28/23 15:37	SM 4500-NH3 C		BEG1051

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16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

**Sample: CVF 11-5  
23G1824-03 (Water)**

Sampled: 7/25/2023 11:30

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.45</b>	mmhos/cm	0.01	1		07/28/23 12:06	SM 2510 B		BEG0956
<b>Electrical Conductivity umhos</b>	<b>454</b>	umhos/cm	10.0	1		07/28/23 12:06	SM 2510 B		BEG0956
<b>Nitrate Nitrogen as NO3N</b>	<b>2.8</b>	mg/L	0.1	1	10	07/26/23 22:02	EPA 300.0		BEG0970
<b>pH</b>	<b>7.9</b>	units	1.0	1		07/28/23 12:06	SM 4500-H+	H	BEG0956
<b>Total Filterable Solids (TDS)</b>	<b>240</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 12:06	SM 2510 B		BEG0956
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:38	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>2.81</b>	mg/L	1.00	1		07/28/23 15:38	SM 4500-NH3 C		BEG1051

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

**Sample: CVF 12-2  
23G1824-04 (Water)**

Sampled: 7/25/2023 12:39

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.34</b>	mmhos/cm	0.01	1		07/28/23 13:11	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>341</b>	umhos/cm	10.0	1		07/28/23 13:11	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>2.7</b>	mg/L	0.1	1	10	07/26/23 22:22	EPA 300.0		BEG0970
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 13:11	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>183</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:11	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:39	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>2.77</b>	mg/L	1.00	1		07/28/23 15:39	SM 4500-NH3 C		BEG1051

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

**Sample: CVF 12-3  
23G1824-05 (Water)**

Sampled: 7/25/2023 11:05

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.40</b>	mmhos/cm	0.01	1		07/28/23 13:13	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>396</b>	umhos/cm	10.0	1		07/28/23 13:13	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>2.9</b>	mg/L	0.1	1	10	07/27/23 01:02	EPA 300.0		BEG0970
<b>pH</b>	<b>7.9</b>	units	1.0	1		07/28/23 13:13	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>197</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:13	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:41	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>3.04</b>	mg/L	1.00	1		07/28/23 15:41	SM 4500-NH3 C		BEG1051

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

**Sample: CVF 12-4  
23G1824-06 (Water)**

Sampled: 7/25/2023 10:43

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.65</b>	mmhos/cm	0.01	1		07/28/23 13:15	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>646</b>	umhos/cm	10.0	1		07/28/23 13:15	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>8.0</b>	mg/L	0.1	1	10	07/27/23 01:21	EPA 300.0		BEG0970
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 13:15	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>423</b>	mg/L	10.0	1		07/28/23 17:00	SM 2540 C		BEG0947
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:15	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:42	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>8.55</b>	mg/L	1.00	1		07/28/23 15:42	SM 4500-NH3 C		BEG1051

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/01/2023 12:52

**Sample: CVF 12-9  
23G1824-07 (Water)**

Sampled: 7/25/2023 11:12

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.48</b>	mmhos/cm	0.01	1		07/28/23 13:16	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>476</b>	umhos/cm	10.0	1		07/28/23 13:16	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>1.5</b>	mg/L	0.1	1	10	07/27/23 01:41	EPA 300.0		BEG0970
<b>pH</b>	<b>7.8</b>	units	1.0	1		07/28/23 13:16	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>253</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:16	SM 2510 B		BEG0957
<b>Kjeldahl Nitrogen (TKN), Total</b>	<b>5.46</b>	mg/L	1.00	1		07/28/23 15:43	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>6.95</b>	mg/L	1.00	1		07/28/23 15:43	SM 4500-NH3 C		BEG1051

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**Sample: CVF 12-10  
23G1824-08 (Water)**

Sampled: 7/25/2023 11:19

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.40</b>	mmhos/cm	0.01	1		07/28/23 13:18	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>400</b>	umhos/cm	10.0	1		07/28/23 13:18	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>3.0</b>	mg/L	0.1	1	10	07/27/23 02:01	EPA 300.0		BEG0970
<b>pH</b>	<b>8.0</b>	units	1.0	1		07/28/23 13:18	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>225</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:18	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:45	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>3.06</b>	mg/L	1.00	1		07/28/23 15:45	SM 4500-NH3 C		BEG1051

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**Sample: CVF 13-2  
23G1824-09 (Water)**

Sampled: 7/25/2023 12:48

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.60</b>	mmhos/cm	0.01	1		07/28/23 13:19	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>598</b>	umhos/cm	10.0	1		07/28/23 13:19	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>2.1</b>	mg/L	0.1	1	10	07/27/23 02:21	EPA 300.0		BEG0970
<b>pH</b>	<b>7.9</b>	units	1.0	1		07/28/23 13:19	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>368</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:19	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/28/23 15:46	SM 4500-NH3 C		BEG1051
<b>Total Nitrogen</b>	<b>2.30</b>	mg/L	1.00	1		07/28/23 15:46	SM 4500-NH3 C		BEG1051

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0947</b>									
<b>Blank (BEG0947-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023				
<b>LCS (BEG0947-BS1)</b>									
Total Filterable Solids (TDS)	20.0	10.0	mg/L	2000	Prepared: 7/25/2023 Analyzed: 7/28/2023	1.00	0-200		
<b>Duplicate (BEG0947-DUP1)</b>									
Total Filterable Solids (TDS)	240	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	240		0.00	10
<b>Duplicate (BEG0947-DUP2)</b>									
Total Filterable Solids (TDS)	420	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	423		0.791	10
<b>Reference (BEG0947-SRM1)</b>									
Total Filterable Solids (TDS)	313		mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	325.0	96.4	90-110	
<b>Reference (BEG0947-SRM2)</b>									
Total Filterable Solids (TDS)	483		mg/L		Prepared: 7/25/2023 Analyzed: 7/28/2023	495.0	97.6	90-110	

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0950</b>									
<b>Blank (BEG0950-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023				
<b>LCS (BEG0950-BS1)</b>									
Total Filterable Solids (TDS)	13.8	10.0	mg/L	2000	Prepared: 7/25/2023 Analyzed: 7/31/2023	0.688	0-200		
<b>Duplicate (BEG0950-DUP1)</b>									
Total Filterable Solids (TDS)	400	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	400		0.00	10
<b>Duplicate (BEG0950-DUP2)</b>									
Total Filterable Solids (TDS)	287	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	307		6.74	10
<b>Reference (BEG0950-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	325.0	99.5	90-110	
<b>Reference (BEG0950-SRM2)</b>									
Total Filterable Solids (TDS)	510		mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	495.0	103	90-110	

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## Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0956</b>									
<b>Blank (BEG0956-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	6.2	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0956-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0956-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.1	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEG0956-DUP1)</b>									
<b>Source: 23G1819-03</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	0.43	0.01	mmhos/cm		0.43		0.0233	10	
pH	7.8	1.0	units		7.8		0.641	10	
Electrical Conductivity umhos	429	10.0	umhos/cm		428		0.0233	10	
<b>Duplicate (BEG0956-DUP2)</b>									
<b>Source: 23G1821-05</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	0.55	0.01	mmhos/cm		0.55		0.707	10	
pH	7.7	1.0	units		7.6		0.654	10	
Electrical Conductivity umhos	550	10.0	umhos/cm		554		0.707	10	
<b>Reference (BEG0956-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	581	umhos/cm	538.0		108	90-110			
<b>Reference (BEG0956-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8	units	5.820		100	28178-101.7			
<b>Reference (BEG0956-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0956-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0956-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1070	umhos/cm	1000		107	90-110			

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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**Batch: BEG0956 (Continued)**

**Reference (BEG0956-SRM5)**

Electrical Conductivity umhos      Prepared: 7/26/2023 Analyzed: 7/28/2023

Electrical Conductivity umhos	1070	umhos/cm	1000	107	90-110
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**Reference (BEG0956-SRM6)**

pH      Prepared: 7/26/2023 Analyzed: 7/28/2023

pH	4.0	units	4.000	99.2	97.5-102.5
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**Reference (BEG0956-SRM7)**

pH      Prepared: 7/26/2023 Analyzed: 7/28/2023

pH	4.0	units	4.000	100	97.5-102.5
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**Reference (BEG0956-SRM8)**

pH      Prepared: 7/26/2023 Analyzed: 7/28/2023

pH	4.0	units	4.000	99.8	97.5-102.5
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## Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0957</b>									
<b>Blank (BEG0957-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0957-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.1	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0957-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.4	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Duplicate (BEG0957-DUP1)</b>									
<b>Source: 23G1824-07</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	0.47	0.01	mmhos/cm		0.48		1.61	10	
pH	7.8	1.0	units		7.8		0.00	10	
Electrical Conductivity umhos	468	10.0	umhos/cm		476		1.61	10	
<b>Duplicate (BEG0957-DUP2)</b>									
<b>Source: 23G1827-06</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	8.6	1.0	units		8.5		0.468	10	
Electrical Conductivity	0.66	0.01	mmhos/cm		0.66		0.573	10	
Electrical Conductivity umhos	665	10.0	umhos/cm		661		0.573	10	
<b>Reference (BEG0957-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	583	umhos/cm	538.0		108	90-110			
<b>Reference (BEG0957-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8	units	5.820		100	28178-101.7			
<b>Reference (BEG0957-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090	umhos/cm	1000		109	90-110			
Electrical Conductivity umhos	1090	umhos/cm	1000		109	90-110			
<b>Reference (BEG0957-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0957-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090	umhos/cm	1000		109	90-110			

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0957 (Continued)</b>									
<b>Reference (BEG0957-SRM5)</b>									
Electrical Conductivity umhos	1090		umhos/cm	1000		109	90-110		
<b>Reference (BEG0957-SRM6)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0957-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0957-SRM8)</b>									
pH	4.0		units	4.000		100	97.5-102.5		

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0970</b>									
<b>Blank (BEG0970-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/26/2023				
<b>Blank (BEG0970-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/26/2023				
<b>Blank (BEG0970-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 7/26/2023 Analyzed: 7/27/2023				
<b>LCS (BEG0970-BS1)</b>									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000	108	90-110			
<b>LCS (BEG0970-BS2)</b>									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000	108	90-110			
<b>Duplicate (BEG0970-DUP1)</b>									
Nitrate Nitrogen as NO3N	2.8	0.1	mg/L	2.7			0.948	10	
<b>Duplicate (BEG0970-DUP2)</b>									
Nitrate Nitrogen as NO3N	2.8	0.1	mg/L	2.9			4.26	10	
<b>Matrix Spike (BEG0970-MS1)</b>									
Nitrate Nitrogen as NO3N	8.2	0.1	mg/L	5.000	2.7	110	90-110		
<b>Matrix Spike (BEG0970-MS2)</b>									
Nitrate Nitrogen as NO3N	8.2	0.1	mg/L	5.000	2.9	106	90-110		
<b>Reference (BEG0970-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.8		mg/L	10.00	108	90-110			
<b>Reference (BEG0970-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.7		mg/L	10.00	107	90-110			
<b>Reference (BEG0970-SRM3)</b>									
Nitrate Nitrogen as NO3N	10.8		mg/L	10.00	108	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
<b>Batch: BEG1051</b>									
<b>Blank (BEG1051-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.00             mg/L									
Total Nitrogen									
ND                  1.00             mg/L									
<b>Blank (BEG1051-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.00             mg/L									
Total Nitrogen									
ND                  1.00             mg/L									
<b>LCS (BEG1051-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.74              1.00             mg/L									
5.709            101          90-110									
<b>LCS (BEG1051-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.92              1.00             mg/L									
5.709            104          90-110									
<b>Duplicate (BEG1051-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total									
16.0              3.50             mg/L									
15.1              5.33          10									
<b>Duplicate (BEG1051-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.40             mg/L									
ND               10									
<b>Matrix Spike (BEG1051-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
28.0              3.50             mg/L									
9.990            15.1          128          90-110									
<b>Matrix Spike (BEG1051-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
7.61              1.40             mg/L									
7.992            ND            95.2          90-110									
<b>Reference (BEG1051-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total									
23.5              mg/L									
23.80            98.6          90-110									

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07/25/23 15:40

23G1824

Purchase Order No

88151 08  
 Bill To: Acct # DNS Cons # 8/1/23

Results Need By

Name: Costa View Farms

Address: 16800 Road 15

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: ginam.costaviewfarms@gmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Larry Pietrowski

PROJECT:

CROP: IRRIGATION WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By: F&R AG

## DELLAVALLE LABORATORY, INC.

910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavalleelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. Samples: 9

No of Bottles:

Water Type: [ ] Drinking Water [ ] Wastewater  
 Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

**Analysis and Bottles Required: (Please indicate Analysis)**( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

## Description of Samples

- 1 CVF 11(w)  
 2 CVF 12A(w)  
 3 CVF 12A(w)  
 4 CVF 11-5  
 5 CVF 12-2  
 6 CVF 12-3  
 7 CVF 12-4  
 8 CVF 12-9  
 9 CVF 12-10  
 10 CVF 13-2

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>3</sub> PURGE
7/25/23	1229	-1.6	345 MIN
	1134	-1.4	
	1130	-1.2	
	1239	-2.1	
	1105	0.5	
	1043	-0.9	
	1112	0.8	
	1119	-0.3	
	1248	-1.8	

IR Thermometer SN: 200560723  
 Correction Factor: 0°C  
 Calibration Due: 9/26/2023  
 Location: Laboratory

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	7/25/23 1248	7/25/23
Second				
Third				
Fourth	<u>JM</u>	DCL	7/25/23 18:40	

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.

## Inventory Information:

## Shipping

Sampling hrs \_\_\_\_\_

\$

In

Miles \_\_\_\_\_

\$

Out

Consulting

Amt Paid Rec By Check # Date

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No



07/25/23 15:40

23G1824

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>																																																																																																																																																																																																									
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest																																																																																																																																																																																																				
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>																																																																																																																																																																																																				
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory																																																																																																																																																																																																									
Type of Container(s) Received	Sample Number																																																																																																																																																																																																								
	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																															
<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>																																																																																																																																																																																																									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
	250 mL unpreserved (White) Plastic																																																																																																																																																																																																								
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																																																																																																																								
	* pH Value																																																																																																																																																																																																								
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	1	1	1	1	1	1	1	1	1	1																																																																																																																																																																																														
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1 L unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1																																																																																																																																																																																															
1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																																									
Special	500mL unpreserved (White) Glass																																																																																																																																																																																																								
	PO4-P Kit																																																																																																																																																																																																								
	Other:																																																																																																																																																																																																								
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>																																																																																																																																																																																																									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
	250 mL unpreserved (White) Plastic																																																																																																																																																																																																								
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VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																																																																																																																								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)																																																																																																																																																																																																								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)																																																																																																																																																																																																								
	40mL AG VOA unpreserved (White) (Set of 3)																																																																																																																																																																																																								
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																								
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)																																																																																																																																																																																																								
	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																																																																																																																								
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										250 mL AG unpreserved (White)										250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										500 mL glass unpreserved (White)										500 mL AG HCl (Blue)										1 L AG unpreserved (White)										1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										Special	1 L AG HCl (Blue)										Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										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:									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																								
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Special	1 L AG HCl (Blue)										Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										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:																																																																																																														
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	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																																																																																																																																																																																																									
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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1827-01	CVF Mid Canal	Ag Water	F & R Ag	Canal/Reservoirs	07/25/2023 9:07
23G1827-02	CVF 12-2 Reservoir	Ag Water	F & R Ag	Canal/Reservoirs	07/25/2023 11:09
23G1827-03	CVF 12-10 Reservoir	Ag Water	F & R Ag	Canal/Reservoirs	07/25/2023 11:16
23G1827-04	CVF 15-1 Reservoir	Ag Water	F & R Ag	Canal/Reservoirs	07/25/2023 13:14
23G1827-05	CVF 6W Reservoir	Ag Water	F & R Ag	Canal/Reservoirs	07/25/2023 12:11
23G1827-06	CVF 11-5 Reservoir	Ag Water	F & R Ag	Canal/Reservoirs	07/25/2023 11:23
23G1827-07	CVF 16-6 Reservoir	Ag Water	F & R Ag	Canal/Reservoirs	07/25/2023 9:33

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.

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

## Sample Results

**Sample: CVF Mid Canal  
23G1827-01 (Water)**

Sampled: 7/25/2023 9:07

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		07/28/23 13:21	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>24.0</b>	umhos/cm	10.0	1		07/28/23 13:21	SM 2510 B		BEG0957
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	07/25/23 19:32	EPA 300.0		BEG0910
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 13:21	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>17.0</b>	mg/L	10.0	1		08/02/23 15:56	SM 2540 C		BEG1070
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:21	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:15	SM 4500-NH3 C		BEG1107
Total Nitrogen	ND	mg/L	1.00	1		07/31/23 13:15	SM 4500-NH3 C		BEG1107

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

**Sample: CVF 12-2 Reservoir  
23G1827-02 (Water)**

Sampled: 7/25/2023 11:09

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.43</b>	mmhos/cm	0.01	1		07/28/23 13:23	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>429</b>	umhos/cm	10.0	1		07/28/23 13:23	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>2.1</b>	mg/L	0.1	1	10	07/25/23 19:52	EPA 300.0		BEG0910
<b>pH</b>	<b>8.2</b>	units	1.0	1		07/28/23 13:23	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>242</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:23	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:16	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>2.12</b>	mg/L	1.00	1		07/31/23 13:16	SM 4500-NH3 C		BEG1107

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

**Sample: CVF 12-10 Reservoir  
23G1827-03 (Water)**

Sampled: 7/25/2023 11:16

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.52</b>	mmhos/cm	0.01	1		07/28/23 13:24	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>519</b>	umhos/cm	10.0	1		07/28/23 13:24	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>4.9</b>	mg/L	0.1	1	10	07/25/23 20:12	EPA 300.0		BEG0910
<b>pH</b>	<b>7.9</b>	units	1.0	1		07/28/23 13:24	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>417</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:24	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:18	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>4.94</b>	mg/L	1.00	1		07/31/23 13:18	SM 4500-NH3 C		BEG1107

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

**Sample: CVF 15-1 Reservoir  
23G1827-04 (Water)**

Sampled: 7/25/2023 13:14

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.06</b>	mmhos/cm	0.01	1		07/28/23 13:26	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>57.8</b>	umhos/cm	10.0	1		07/28/23 13:26	SM 2510 B		BEG0957
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	07/25/23 20:32	EPA 300.0		BEG0910
<b>pH</b>	<b>8.0</b>	units	1.0	1		07/28/23 13:26	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>47.1</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:26	SM 2510 B		BEG0957
<b>Kjeldahl Nitrogen (TKN), Total</b>	<b>1.47</b>	mg/L	1.00	1		07/31/23 13:19	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>1.55</b>	mg/L	1.00	1		07/31/23 13:19	SM 4500-NH3 C		BEG1107

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

**Sample: CVF 6W Reservoir  
23G1827-05 (Water)**

Sampled: 7/25/2023 12:11

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.86</b>	mmhos/cm	0.01	1		07/28/23 13:34	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>861</b>	umhos/cm	10.0	1		07/28/23 13:34	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>8.3</b>	mg/L	0.1	1	10	07/25/23 20:53	EPA 300.0		BEG0910
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 13:34	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>512</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:34	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/31/23 13:21	SM 4500-NH3 C		BEG1107
<b>Total Nitrogen</b>	<b>8.32</b>	mg/L	1.00	1		07/31/23 13:21	SM 4500-NH3 C		BEG1107

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

**Sample: CVF 11-5 Reservoir  
23G1827-06 (Water)**

Sampled: 7/25/2023 11:23

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.66</b>	mmhos/cm	0.01	1		07/28/23 13:36	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>661</b>	umhos/cm	10.0	1		07/28/23 13:36	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>4.1</b>	mg/L	0.1	1	10	07/25/23 21:13	EPA 300.0		BEG0910
<b>pH</b>	<b>8.5</b>	units	1.0	1		07/28/23 13:36	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>400</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:36	SM 2510 B		BEG0957
<b>Kjeldahl Nitrogen (TKN), Total</b>	<b>1.88</b>	mg/L	1.00	1		08/01/23 08:22	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>6.01</b>	mg/L	1.00	1		08/01/23 08:22	SM 4500-NH3 C		BEG1108

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

**Sample: CVF 16-6 Reservoir  
23G1827-07 (Water)**

Sampled: 7/25/2023 9:33

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.09</b>	mmhos/cm	0.01	1		07/28/23 13:38	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>89.0</b>	umhos/cm	10.0	1		07/28/23 13:38	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>0.1</b>	mg/L	0.1	1	10	07/25/23 21:33	EPA 300.0		BEG0910
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 13:38	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>60.0</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:38	SM 2510 B		BEG0957
<b>Kjeldahl Nitrogen (TKN), Total</b>	<b>1.35</b>	mg/L	1.00	1		08/01/23 08:23	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>1.48</b>	mg/L	1.00	1		08/01/23 08:23	SM 4500-NH3 C		BEG1108

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0910</b>									
<b>Blank (BEG0910-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/25/2023				
<b>Blank (BEG0910-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/25/2023				
<b>Blank (BEG0910-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 7/25/2023 Analyzed: 7/26/2023				
<b>LCS (BEG0910-BS1)</b>									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	104	90-110			
<b>LCS (BEG0910-BS2)</b>									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	104	90-110			
<b>Duplicate (BEG0910-DUP1)</b>									
Nitrate Nitrogen as NO3N	2.1	0.1	mg/L	2.1			0.517	10	
<b>Duplicate (BEG0910-DUP2)</b>									
Nitrate Nitrogen as NO3N	0.4	0.1	mg/L	0.4			0.911	10	
<b>Matrix Spike (BEG0910-MS1)</b>									
Nitrate Nitrogen as NO3N	7.4	0.1	mg/L	5.000	2.1	106	90-110		
<b>Matrix Spike (BEG0910-MS2)</b>									
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.4	105	90-110		
<b>Reference (BEG0910-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00	102	90-110			
<b>Reference (BEG0910-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			
<b>Reference (BEG0910-SRM3)</b>									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			

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Received: 07/25/2023 15:40  
Reported: 08/03/2023 11:10

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0950</b>									
<b>Blank (BEG0950-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023				
<b>LCS (BEG0950-BS1)</b>									
Total Filterable Solids (TDS)	13.8	10.0	mg/L	2000	Prepared: 7/25/2023 Analyzed: 7/31/2023	0.688	0-200		
<b>Duplicate (BEG0950-DUP1)</b>									
Total Filterable Solids (TDS)	400	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	400		0.00	10
<b>Duplicate (BEG0950-DUP2)</b>									
Total Filterable Solids (TDS)	287	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	307		6.74	10
<b>Reference (BEG0950-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L	325.0	Prepared: 7/25/2023 Analyzed: 7/31/2023	99.5	90-110		
<b>Reference (BEG0950-SRM2)</b>									
Total Filterable Solids (TDS)	510		mg/L	495.0	Prepared: 7/25/2023 Analyzed: 7/31/2023	103	90-110		

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## Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0957</b>									
<b>Blank (BEG0957-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0957-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.1	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0957-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEG0957-DUP1)</b>									
<b>Source: 23G1824-07</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.8	1.0	units		7.8		0.00	10	
Electrical Conductivity	0.47	0.01	mmhos/cm		0.48		1.61	10	
Electrical Conductivity umhos	468	10.0	umhos/cm		476		1.61	10	
<b>Duplicate (BEG0957-DUP2)</b>									
<b>Source: 23G1827-06</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	8.6	1.0	units		8.5		0.468	10	
Electrical Conductivity	0.66	0.01	mmhos/cm		0.66		0.573	10	
Electrical Conductivity umhos	665	10.0	umhos/cm		661		0.573	10	
<b>Reference (BEG0957-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	583		umhos/cm	538.0		108	90-110		
<b>Reference (BEG0957-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8		units	5.820		100	28178-101.7		
<b>Reference (BEG0957-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090		umhos/cm	1000		109	90-110		
Electrical Conductivity umhos	1090		umhos/cm	1000		109	90-110		
<b>Reference (BEG0957-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080		umhos/cm	1000		108	90-110		
Electrical Conductivity umhos	1080		umhos/cm	1000		108	90-110		
<b>Reference (BEG0957-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090		umhos/cm	1000		109	90-110		

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0957 (Continued)</b>									
<b>Reference (BEG0957-SRM5)</b>									
Electrical Conductivity umhos	1090		umhos/cm	1000		109	90-110		
<b>Reference (BEG0957-SRM6)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0957-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0957-SRM8)</b>									
pH	4.0		units	4.000		100	97.5-102.5		

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG1070</b>									
<b>Blank (BEG1070-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/27/2023 Analyzed: 8/2/2023				
<b>LCS (BEG1070-BS1)</b>									
Total Filterable Solids (TDS)	10.0	10.0	mg/L		Prepared: 7/27/2023 Analyzed: 8/2/2023		0-200		
<b>Duplicate (BEG1070-DUP1)</b>									
Total Filterable Solids (TDS)	28.6	10.0	mg/L		Prepared: 7/27/2023 Analyzed: 8/2/2023	26.4		7.79	10
<b>Duplicate (BEG1070-DUP2)</b>									
Total Filterable Solids (TDS)	1320	10.0	mg/L		Prepared: 7/27/2023 Analyzed: 8/2/2023	1380		3.70	10
<b>Reference (BEG1070-SRM1)</b>									
Total Filterable Solids (TDS)	293		mg/L		Prepared: 7/27/2023 Analyzed: 8/2/2023	325.0	90.3	90-110	
<b>Reference (BEG1070-SRM2)</b>									
Total Filterable Solids (TDS)	493		mg/L		Prepared: 7/27/2023 Analyzed: 8/2/2023	495.0	99.7	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
<b>Batch: BEG1107</b>									
<b>Blank (BEG1107-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>Blank (BEG1107-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>LCS (BEG1107-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total	5.78	1.00	mg/L	5.709		101	90-110		
<b>LCS (BEG1107-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total	5.94	1.00	mg/L	5.709		104	90-110		
<b>Duplicate (BEG1107-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
<b>Duplicate (BEG1107-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
<b>Matrix Spike (BEG1107-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total	8.50	1.40	mg/L	7.992	ND	106	90-110		
<b>Matrix Spike (BEG1107-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total	7.79	1.40	mg/L	7.992	ND	97.5	90-110		
<b>Reference (BEG1107-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total	24.0		mg/L	23.80		101	90-110		

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Reported: 08/03/2023 11:10

## **Quality Control (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEG1108</b>									
<b>Blank (BEG1108-BLK1)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>Blank (BEG1108-BLK2)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>LCS (BEG1108-BS1)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	5.72	1.00	mg/L	5.709		100	90-110		
<b>LCS (BEG1108-BS2)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	5.84	1.00	mg/L	5.709		102	90-110		
<b>Duplicate (BEG1108-DUP1)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
<b>Duplicate (BEG1108-DUP2)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
<b>Matrix Spike (BEG1108-MS1)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	8.46	1.40	mg/L	7.992	ND	106	90-110		
<b>Matrix Spike (BEG1108-MS2)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	7.07	1.40	mg/L	7.992	ND	88.5	90-110		
<b>Reference (BEG1108-SRM1)</b>								Prepared: 7/28/2023 Analyzed: 8/1/2023	
Kjeldahl Nitrogen (TKN), Total	23.9		mg/L	23.80		100	90-110		

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07/25/23 15:40

23G1827

Purchase Order No

8815 | 08  
 Bill To: Acct # Cons #  
 JWS 8/1/23

Results Need By

Name: Costa View Farms

Address: 16800 Road 15

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: ginam.costaviewfarms@gmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Larry Pietrowski

PROJECT:

CROP: CANAL/RESERVOIRS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

F&amp;R AG

## 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: 7 No of Bottles:

JWS 8/1/23

Water Type: [ ] Drinking Water [ ] Wastewater  
 [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

(✓) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N
7/25/23	0907	-0.3	
	1109	0.2	
	1116	-1.3	
	1314	-1.7	
	1211	1.1	
	1123	-1.8	
	0933	-0.2	

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	7/25/23 1314	7/25/23
Second				
Third				
Fourth	JWS	D L I	7/25/23 15:40	

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. It, 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.

## Billing Information:

## Shipping

Sampling hrs

\$

In

Miles

\$

Out

Consulting

Amt Paid	Rec By	Check #	Date
----------	--------	---------	------

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No



07/25/23 15:40

23G1827

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None					
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> were:					<input type="checkbox"/> Received Preserved		<input type="checkbox"/> Preserved Upon Receipt at Laboratory			
Type of Container(s) Received	Sample Number									
	1	2	3	4	5	6	7	8	9	10
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	*   pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	1	1	1	1	1	1	1	1	1
	*   pH Value	2	2	2	2	2	2	2	2	2
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1
Special	1 L unpreserved (BOD) (Purple) Plastic									
	500mL unpreserved (White) Glass									
	PO4-P Kit									
Other:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	1 L AG HCl (Blue)									
Special	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	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:										



Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1831-01	CVF 13-8	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 10:27
23G1831-02	CVF 13-10	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:42
23G1831-03	CVF 13-11	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 10:59
23G1831-04	CVF 13-12	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 10:39
23G1831-05	CVF 14-3	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 10:08
23G1831-06	CVF 14-5	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 12:52
23G1831-07	CVF 14-7	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 10:21
23G1831-08	CVF 14-10	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 10:13
23G1831-09	CVF 15-1	Ag Water	F & R Ag	Irrigation Wells	07/25/2023 13:18

Default Cooler      Temperature on Receipt °C: 0.2  
 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.

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

### Sample Results

**Sample: CVF 13-8  
23G1831-01 (Water)**

Sampled: 7/25/2023 10:27  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.86</b>	mmhos/cm	0.01	1		07/28/23 13:39	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>858</b>	umhos/cm	10.0	1		07/28/23 13:39	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>12.9</b>	mg/L	0.1	1	10	07/26/23 20:28	EPA 300.0		BEG0969
<b>pH</b>	<b>7.8</b>	units	1.0	1		07/28/23 13:39	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>663</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:39	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:24	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>12.9</b>	mg/L	1.00	1		08/01/23 08:24	SM 4500-NH3 C		BEG1108

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 13-10  
23G1831-02 (Water)**

Sampled: 7/25/2023 12:42

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.54</b>	mmhos/cm	0.01	1		07/28/23 13:41	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>543</b>	umhos/cm	10.0	1		07/28/23 13:41	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>1.9</b>	mg/L	0.1	1	10	07/26/23 20:48	EPA 300.0		BEG0969
<b>pH</b>	<b>7.9</b>	units	1.0	1		07/28/23 13:41	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>318</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:41	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:26	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>1.92</b>	mg/L	1.00	1		08/01/23 08:26	SM 4500-NH3 C		BEG1108

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16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 13-11  
23G1831-03 (Water)**

Sampled: 7/25/2023 10:59

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.72</b>	mmhos/cm	0.01	1		07/28/23 13:42	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>723</b>	umhos/cm	10.0	1		07/28/23 13:42	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>11.3</b>	mg/L	0.1	1	10	07/26/23 21:09	EPA 300.0		BEG0969
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 13:42	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>320</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:42	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:27	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>11.3</b>	mg/L	1.00	1		08/01/23 08:27	SM 4500-NH3 C		BEG1108

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 13-12  
23G1831-04 (Water)**

Sampled: 7/25/2023 10:39

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.84</b>	mmhos/cm	0.01	1		07/28/23 13:44	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>841</b>	umhos/cm	10.0	1		07/28/23 13:44	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>14.3</b>	mg/L	0.1	1	10	07/26/23 21:29	EPA 300.0		BEG0969
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 13:44	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>667</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:44	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:29	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>14.3</b>	mg/L	1.00	1		08/01/23 08:29	SM 4500-NH3 C		BEG1108

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16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 14-3  
23G1831-05 (Water)**

Sampled: 7/25/2023 10:08

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.52</b>	mmhos/cm	0.01	1		07/28/23 13:45	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>1520</b>	umhos/cm	10.0	1		07/28/23 13:45	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>45.9</b>	mg/L	0.1	1	10	07/26/23 21:49	EPA 300.0		BEG0969
<b>pH</b>	<b>7.6</b>	units	1.0	1		07/28/23 13:45	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>820</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:45	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:30	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>45.9</b>	mg/L	1.00	1		08/01/23 08:30	SM 4500-NH3 C		BEG1108

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 14-5**  
**23G1831-06 (Water)**

Sampled: 7/25/2023 12:52

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.88</b>	mmhos/cm	0.01	1		07/28/23 13:47	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>1880</b>	umhos/cm	10.0	1		07/28/23 13:47	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>53.6</b>	mg/L	0.1	1	10	07/26/23 22:09	EPA 300.0		BEG0969
<b>pH</b>	<b>7.5</b>	units	1.0	1		07/28/23 13:47	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>1020</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:47	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:31	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>53.9</b>	mg/L	1.00	1		08/01/23 08:31	SM 4500-NH3 C		BEG1108

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 14-7**  
**23G1831-07 (Water)**

Sampled: 7/25/2023 10:21

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.65</b>	mmhos/cm	0.01	1		07/28/23 13:48	SM 2510 B		BEG0957
<b>Electrical Conductivity umhos</b>	<b>649</b>	umhos/cm	10.0	1		07/28/23 13:48	SM 2510 B		BEG0957
<b>Nitrate Nitrogen as NO3N</b>	<b>1.7</b>	mg/L	0.1	1	10	07/26/23 22:29	EPA 300.0		BEG0969
<b>pH</b>	<b>8.0</b>	units	1.0	1		07/28/23 13:48	SM 4500-H+	H	BEG0957
<b>Total Filterable Solids (TDS)</b>	<b>345</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 13:48	SM 2510 B		BEG0957
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:33	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>1.88</b>	mg/L	1.00	1		08/01/23 08:33	SM 4500-NH3 C		BEG1108

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16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 14-10  
23G1831-08 (Water)**

Sampled: 7/25/2023 10:13

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.22</b>	mmhos/cm	0.01	1		07/28/23 14:07	SM 2510 B		BEG0958
<b>Electrical Conductivity umhos</b>	<b>1220</b>	umhos/cm	10.0	1		07/28/23 14:07	SM 2510 B		BEG0958
<b>Nitrate Nitrogen as NO3N</b>	<b>31.2</b>	mg/L	0.1	1	10	07/27/23 01:12	EPA 300.0		BEG0969
<b>pH</b>	<b>7.4</b>	units	1.0	1		07/28/23 14:07	SM 4500-H+	H	BEG0958
<b>Total Filterable Solids (TDS)</b>	<b>645</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 14:07	SM 2510 B		BEG0958
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:34	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>31.2</b>	mg/L	1.00	1		08/01/23 08:34	SM 4500-NH3 C		BEG1108

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16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Sample: CVF 15-1  
23G1831-09 (Water)**

Sampled: 7/25/2023 13:18

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.47</b>	mmhos/cm	0.01	1		07/28/23 14:08	SM 2510 B		BEG0958
<b>Electrical Conductivity umhos</b>	<b>474</b>	umhos/cm	10.0	1		07/28/23 14:08	SM 2510 B		BEG0958
<b>Nitrate Nitrogen as NO3N</b>	<b>7.0</b>	mg/L	0.1	1	10	07/27/23 01:32	EPA 300.0		BEG0969
<b>pH</b>	<b>7.7</b>	units	1.0	1		07/28/23 14:08	SM 4500-H+	H	BEG0958
<b>Total Filterable Solids (TDS)</b>	<b>307</b>	mg/L	10.0	1		07/31/23 15:24	SM 2540 C		BEG0950
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 14:08	SM 2510 B		BEG0958
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/01/23 08:44	SM 4500-NH3 C		BEG1108
<b>Total Nitrogen</b>	<b>7.06</b>	mg/L	1.00	1		08/01/23 08:44	SM 4500-NH3 C		BEG1108

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Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0950</b>									
<b>Blank (BEG0950-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023				
<b>LCS (BEG0950-BS1)</b>									
Total Filterable Solids (TDS)	13.8	10.0	mg/L	2000	Prepared: 7/25/2023 Analyzed: 7/31/2023	0.688	0-200		
<b>Duplicate (BEG0950-DUP1)</b>									
Total Filterable Solids (TDS)	400	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	400		0.00	10
<b>Duplicate (BEG0950-DUP2)</b>									
Total Filterable Solids (TDS)	287	10.0	mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	307		6.74	10
<b>Reference (BEG0950-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	325.0	99.5	90-110	
<b>Reference (BEG0950-SRM2)</b>									
Total Filterable Solids (TDS)	510		mg/L		Prepared: 7/25/2023 Analyzed: 7/31/2023	495.0	103	90-110	

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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

## Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0957</b>									
<b>Blank (BEG0957-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0957-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.1	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0957-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEG0957-DUP1)</b>									
Source: 23G1824-07 Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.8	1.0	units		7.8		0.00	10	
Electrical Conductivity	0.47	0.01	mmhos/cm		0.48		1.61	10	
Electrical Conductivity umhos	468	10.0	umhos/cm		476		1.61	10	
<b>Duplicate (BEG0957-DUP2)</b>									
Source: 23G1827-06 Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	0.66	0.01	mmhos/cm		0.66		0.573	10	
pH	8.6	1.0	units		8.5		0.468	10	
Electrical Conductivity umhos	665	10.0	umhos/cm		661		0.573	10	
<b>Reference (BEG0957-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	583	umhos/cm	538.0		108	90-110			
<b>Reference (BEG0957-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8	units	5.820		100	28178-101.7			
<b>Reference (BEG0957-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090	umhos/cm	1000		109	90-110			
Electrical Conductivity umhos	1090	umhos/cm	1000		109	90-110			
<b>Reference (BEG0957-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1080	umhos/cm	1000		108	90-110			
Electrical Conductivity umhos	1080	umhos/cm	1000		108	90-110			
<b>Reference (BEG0957-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090	umhos/cm	1000		109	90-110			

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Reported: 08/02/2023 15:00

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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**Batch: BEG0957 (Continued)**

**Reference (BEG0957-SRM5)**

Electrical Conductivity umhos	1090	umhos/cm	1000	109	90-110
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Prepared: 7/26/2023 Analyzed: 7/28/2023

**Reference (BEG0957-SRM6)**

pH	4.0	units	4.000	100	97.5-102.5
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Prepared: 7/26/2023 Analyzed: 7/28/2023

**Reference (BEG0957-SRM7)**

pH	4.0	units	4.000	100	97.5-102.5
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Prepared: 7/26/2023 Analyzed: 7/28/2023

**Reference (BEG0957-SRM8)**

pH	4.0	units	4.000	100	97.5-102.5
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Prepared: 7/26/2023 Analyzed: 7/28/2023

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Reported: 08/02/2023 15:00

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0958</b>									
<b>Blank (BEG0958-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0958-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.2	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG0958-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.2	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEG0958-DUP1)</b>									
<b>Source: 23G1840-02</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.5	1.0	units		7.5		0.266	10	
Electrical Conductivity	1.09	0.01	mmhos/cm		1.10		0.630	10	
Electrical Conductivity umhos	1090	10.0	umhos/cm		1100		0.630	10	
<b>Duplicate (BEG0958-DUP2)</b>									
<b>Source: 23G1852-01</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	7.5	1.0	units		7.4		0.268	10	
Electrical Conductivity	2.40	0.01	mmhos/cm		2.38		0.766	10	
Electrical Conductivity umhos	2400	10.0	umhos/cm		2380		0.766	10	
<b>Reference (BEG0958-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	587	umhos/cm	538.0		109	90-110			
<b>Reference (BEG0958-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8	units	5.820		100	28178-101.7			
<b>Reference (BEG0958-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090	umhos/cm	1000		109	90-110			
<b>Reference (BEG0958-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1100	umhos/cm	1000		110	90-110			
<b>Reference (BEG0958-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1100	umhos/cm	1000		110	90-110			
<b>Reference (BEG0958-SRM6)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									

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Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0958 (Continued)</b>									
<b>Reference (BEG0958-SRM6)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0958-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0958-SRM8)</b>									
pH	4.0		units	4.000		100	97.5-102.5		

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Received: 07/25/2023 15:40  
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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0969</b>									
<b>Blank (BEG0969-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/26/2023				
<b>Blank (BEG0969-BLK2)</b>					Prepared & Analyzed: 7/26/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEG0969-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/27/2023				
<b>LCS (BEG0969-BS1)</b>					Prepared & Analyzed: 7/26/2023				
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	102	90-110			
<b>LCS (BEG0969-BS2)</b>					Prepared & Analyzed: 7/27/2023				
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	103	90-110			
<b>Duplicate (BEG0969-DUP1)</b>		<b>Source: 23G0247-01</b>			Prepared & Analyzed: 7/27/2023				
Nitrate Nitrogen as NO3N	6.5	0.1	mg/L	6.4			0.619	10	
<b>Duplicate (BEG0969-DUP2)</b>		<b>Source: 23G1831-09</b>			Prepared & Analyzed: 7/27/2023				
Nitrate Nitrogen as NO3N	7.0	0.1	mg/L	7.0			0.342	10	
<b>Matrix Spike (BEG0969-MS1)</b>		<b>Source: 23G0247-01</b>			Prepared & Analyzed: 7/26/2023				
Nitrate Nitrogen as NO3N	11.7	0.1	mg/L	5.000	6.4	105	90-110		
<b>Matrix Spike (BEG0969-MS2)</b>		<b>Source: 23G1831-09</b>			Prepared & Analyzed: 7/27/2023				
Nitrate Nitrogen as NO3N	12.3	0.1	mg/L	5.000	7.0	106	90-110		
<b>Reference (BEG0969-SRM1)</b>					Prepared & Analyzed: 7/26/2023				
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
<b>Reference (BEG0969-SRM2)</b>					Prepared & Analyzed: 7/27/2023				
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
<b>Reference (BEG0969-SRM3)</b>					Prepared & Analyzed: 7/27/2023				
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110		

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Costa View Farms  
16800 Rd 15  
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Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:40  
Reported: 08/02/2023 15:00

## **Quality Control (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEG1108</b>									
<b>Blank (BEG1108-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 7/28/2023	Analyzed: 8/1/2023			
Total Nitrogen	ND	1.00	mg/L						
<b>Blank (BEG1108-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 7/28/2023	Analyzed: 8/1/2023			
Total Nitrogen	ND	1.00	mg/L						
<b>LCS (BEG1108-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total	5.72	1.00	mg/L	5.709		100	90-110		
<b>LCS (BEG1108-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total	5.84	1.00	mg/L	5.709		102	90-110		
<b>Duplicate (BEG1108-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		Prepared: 7/28/2023	Analyzed: 8/1/2023			
<b>Duplicate (BEG1108-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		Prepared: 7/28/2023	Analyzed: 8/1/2023			
<b>Matrix Spike (BEG1108-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total	8.46	1.40	mg/L	7.992	ND	106	90-110		
<b>Matrix Spike (BEG1108-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total	7.07	1.40	mg/L	7.992	ND	88.5	90-110		
<b>Reference (BEG1108-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total	23.9		mg/L	23.80		100	90-110		

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07/25/23 15:40

23G1831

Purchase Order No

Bill To: Acct # 08 Cons # 56

No. Samples: 9

No of Bottles:

Results Need By

Name: Costa View Farms

Address: 16800 Road 15

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: ginam.costaviewfarms@gmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Larry Pietrowski

PROJECT:

CROP: IRRIGATION WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By: F&amp;R AG

Water Type:  Drinking Water  Wastewater  
 Ag Water  Groundwater  Monitoring Well

Other:

**Analysis and Bottles Required: (Please indicate Analysis)**( ) DWW1: EC, NO<sub>3</sub>-N NH<sub>4</sub>-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

## Description of Samples

1	CVF 13-8
2	CVF 13-10
3	CVF 13-11
4	CVF 13-12
5	CVF 14-3
6	CVF 14-4
7	CVF 14-5
8	CVF 14-7
9	CVF 14-10
10	CVF 15-1

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N PURGE
7/25/23	1027	0.2	245 min
	1242	-1.6	
	1059	-1.4	
	1039	-0.3	
	1008	-1.4	
	1252	-0.7	
	1021	0.0	
	1013	-0.4	
	1318	-0.3	

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	7/25/23 1318	7/25/23
Second				
Third				
Fourth	JWZ	DLT	7/25/23 15:40	

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. It, 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.

## Inventory Information:

## Shipping

Sampling hrs \_\_\_\_\_

\$ \_\_\_\_\_

In

Miles \_\_\_\_\_

\$ \_\_\_\_\_

Out

Consulting

Amt Paid Rec By Check # Date

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No



07/25/23 15:40

23G1831

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>											
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory											
Type of Container(s) Received	Sample Number										
	1	2	3	4	5	6	7	8	9	10	
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	* pH Value										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	1	1	1	1	1	1	1	1	1	1
	* pH Value	22	22	22	22	22	22	22	22	22	22
	500 mL unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1
1 L unpreserved (White) Plastic											
1 L unpreserved (BOD) (Purple) Plastic											
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	500 mL HNO <sub>3</sub> (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
VOA Vials	1 L HNO <sub>3</sub> (Red)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	250 mL AG unpreserved (White)										
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
Special	1 L AG unpreserved (White)										
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	1 L AG HCl (Blue)										
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										
	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:											



Costa View Farms  
16800 Rd 15  
Madera, CA 93637

Account# 00-0008815  
Account Manager: Ben Nydam  
Submitted By: Larry Pietrowski

Received: 07/25/2023 15:46  
Reported: 08/01/2023 12:34

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1840-01	Dom DW Big Barn	Well Water	F & R Ag	Domestic Wells	07/25/2023 13:23
23G1840-02	Dom DW Small Barn	Well Water	F & R Ag	Domestic Wells	07/25/2023 13:28

Default Cooler      Temperature on Receipt °C: -2.1  
 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.

A handwritten signature in black ink that reads "Scott M. Tricland".

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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### Sample Results

**Sample: Dom DW Big Barn  
23G1840-01 (Water)**

Sampled: 7/25/2023 13:23

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.05</b>	mmhos/cm	0.01	1		07/28/23 14:19	SM 2510 B		BEG0958
<b>Electrical Conductivity umhos</b>	<b>1050</b>	umhos/cm	10.0	1		07/28/23 14:19	SM 2510 B		BEG0958
Ammonia (as N)	ND	mg/L	0.00	1		07/25/23 13:23	Field		BEG1186
<b>Nitrate Nitrogen as NO3N</b>	<b>19.8</b>	mg/L	0.1	1	10	07/26/23 02:17	EPA 300.0		BEG0910
<b>pH</b>	<b>7.4</b>	units	1.0	1		07/28/23 14:19	SM 4500-H+	H	BEG0958
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 14:19	SM 2510 B		BEG0958

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**Sample: Dom DW Small Barn  
23G1840-02 (Water)**

Sampled: 7/25/2023 13:28

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.10</b>	mmhos/cm	0.01	1		07/28/23 14:20	SM 2510 B		BEG0958
<b>Electrical Conductivity umhos</b>	<b>1100</b>	umhos/cm	10.0	1		07/28/23 14:20	SM 2510 B		BEG0958
Ammonia (as N)	ND	mg/L	0.00	1		07/25/23 13:28	Field		BEG1186
<b>Nitrate Nitrogen as NO3N</b>	<b>21.9</b>	mg/L	0.1	1	10	07/26/23 02:38	EPA 300.0		BEG0910
<b>pH</b>	<b>7.5</b>	units	1.0	1		07/28/23 14:20	SM 4500-H+	H	BEG0958
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		07/28/23 14:20	SM 2510 B		BEG0958

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0910</b>									
<b>Blank (BEG0910-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/25/2023				
<b>Blank (BEG0910-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/25/2023				
<b>Blank (BEG0910-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 7/25/2023 Analyzed: 7/26/2023				
<b>LCS (BEG0910-BS1)</b>									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	104	90-110			
<b>LCS (BEG0910-BS2)</b>									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	104	90-110			
<b>Duplicate (BEG0910-DUP1)</b>									
Nitrate Nitrogen as NO3N	2.1	0.1	mg/L	2.1			0.517	10	
<b>Duplicate (BEG0910-DUP2)</b>									
Nitrate Nitrogen as NO3N	0.4	0.1	mg/L	0.4			0.911	10	
<b>Matrix Spike (BEG0910-MS1)</b>									
Nitrate Nitrogen as NO3N	7.4	0.1	mg/L	5.000	2.1	106	90-110		
<b>Matrix Spike (BEG0910-MS2)</b>									
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.4	105	90-110		
<b>Reference (BEG0910-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00	102	90-110			
<b>Reference (BEG0910-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			
<b>Reference (BEG0910-SRM3)</b>									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0958</b>									
<b>Blank (BEG0958-BLK1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0958-BLK2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEG0958-BLK3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.2	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEG0958-DUP1)</b>									
<b>Source: 23G1840-02</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1.09	0.01	mmhos/cm		1.10		0.630	10	
pH	7.5	1.0	units		7.5		0.266	10	
Electrical Conductivity umhos	1090	10.0	umhos/cm		1100		0.630	10	
<b>Duplicate (BEG0958-DUP2)</b>									
<b>Source: 23G1852-01</b> Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	2.40	0.01	mmhos/cm		2.38		0.766	10	
pH	7.5	1.0	units		7.4		0.268	10	
Electrical Conductivity umhos	2400	10.0	umhos/cm		2380		0.766	10	
<b>Reference (BEG0958-SRM1)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	587	umhos/cm	538.0		109	90-110			
<b>Reference (BEG0958-SRM2)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
pH	5.8	units	5.820		100	28178-101.7			
<b>Reference (BEG0958-SRM3)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1090	umhos/cm	1000		109	90-110			
<b>Reference (BEG0958-SRM4)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1100	umhos/cm	1000		110	90-110			
<b>Reference (BEG0958-SRM5)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									
Electrical Conductivity	1100	umhos/cm	1000		110	90-110			
<b>Reference (BEG0958-SRM6)</b>									
Prepared: 7/26/2023 Analyzed: 7/28/2023									

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG0958 (Continued)</b>									
<b>Reference (BEG0958-SRM6)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0958-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG0958-SRM8)</b>									
pH	4.0		units	4.000		100	97.5-102.5		

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07/25/23 15:46

23G1840

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None					
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> were:					<input type="checkbox"/> Received Preserved		<input type="checkbox"/> Preserved Upon Receipt at Laboratory			
Type of Container(s) Received	Sample Number									
	1	2	3	4	5	6	7	8	9	10
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
1 L unpreserved (White) Plastic	1	1								
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
VOA Vials	1 L HNO <sub>3</sub> (Red)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
Special	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	1 L AG HCl (Blue)									
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	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:										