

**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:** Shady Acres Dairy #2

Physical address of dairy:

15391 West Elkhorn AVE

Number and Street

Helm

Fresno

93627

City

County

Zip Code

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

Date facility was originally placed in operation: 07/01/2003

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0040-0130-014S-0000	0040-0130-040S-0000	0050-0050-004S-0000	0050-0050-010S-0000	0050-0050-012S-0000	0050-0050-015S-0000
0050-0050-053S-0000	0050-0050-054S-0000	0050-0050-060S-0000	0050-0050-074S-0000	0050-0160-001S-0000	0050-0160-018S-0000

**B. OPERATORS**

Anker, Ed

Operator name: Anker, Ed	Telephone no.:	(559) 805-0868
	Landline	Cellular
P.O. Box 153	Helm	CA
Mailing Address Number and Street	City	State
93627		Zip Code

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

**C. OWNERS**

Anker, Ed

Legal owner name: Anker, Ed	Telephone no.:	(559) 805-0868
	Landline	Cellular
P.O. Box 153	Helm	CA
Mailing Address Number and Street	City	State
93627		Zip Code

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

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Number and Street

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

Date facility was originally placed in operation: 07/01/2003

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X040-X130-X14S-XXXX	X040-X130-X40S-XXXX	X050-X050-X04S-XXXX	X050-X050-X10S-XXXX	X050-X050-X12S-XXXX	X050-X050-X15S-XXXX
X050-X050-X53S-XXXX	X050-X050-X54S-XXXX	X050-X050-X60S-XXXX	X050-X050-X74S-XXXX	X050-X160-X01S-XXXX	X050-X160-X18S-XXXX

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**C. OWNERS**

Anker, Ed

Legal owner name: Anker, Ed	Telephone no.:	(559) 805-0868
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P.O. Box 153	Helm	CA
Mailing Address Number and Street	City	State
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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	500	1,300	1,040	320	150
Number under roof	3,000	0	0	0	0	0
Maximum number	3,000	500	1,300	1,040	340	160
Average number	3,000	500	1,300	1,040	330	150
Avg live weight (lbs)	1,400	1,500	1,100	500		

Predominant milk cow breed: Holstein

Average milk production: 63 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 106,725.09 tons per reporting period

Total nitrogen from manure: 1,311,760.64 lbs per reporting period

After ammonia losses (30% loss applied): 918,232.45 lbs per reporting period

Total phosphorus from manure: 215,768.34 lbs per reporting period

Total potassium from manure: 560,730.68 lbs per reporting period

Total salt from manure: 1,527,525.00 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 34,340,217 gallons

Total nitrogen generated: 135,644.81 lbs

$$\begin{aligned}
 & 34,340,217 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 34,340,217 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 37,665.63 lbs

Total potassium generated: 99,905.05 lbs

Total salt generated: 1,247,189.42 lbs

**D. FRESH WATER SOURCES**

Source Description	Type
2-14	Ground water
Canal	Surface water
Dairy Well North	Ground water
Dairy Well South	Ground water
H3	Ground water

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Source Description	Type
Madera Trees	Ground water
Madera Well	Ground water

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

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

*No solid nutrient exports entered.*

*No liquid nutrient exports entered.*

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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
2-1	45	43	2	process wastewater	0050-0050-015S-0000 0050-0050-053S-0000
2-10	82	80	1	process wastewater	0050-0050-054S-0000 0050-0050-074S-0000
2-11	35	34	2	process wastewater	0050-0050-054S-0000 0050-0050-060S-0000 0050-0050-074S-0000
2-12N	32	30	1	none	0050-0050-054S-0000
2-12S	78	76	1	none	0050-0050-054S-0000
2-13	8	7	1	process wastewater	0050-0050-010S-0000
2-14	72	70	1	none	0050-0160-018S-0000
2-2	77	75	1	none	0050-0160-001S-0000
2-2A	68	66	1	none	0050-0160-001S-0000
2-3	172	170	1	process wastewater	0040-0130-014S-0000
2-4	145	143	2	process wastewater	0040-0130-040S-0000
2-5	35	33	2	process wastewater	0050-0050-012S-0000
2-6	44	43	2	process wastewater	0050-0050-010S-0000
2-7E	35	33	2	process wastewater	0050-0050-012S-0000
2-7W	32	30	2	process wastewater	0050-0050-010S-0000
2-8	62	60	1	none	0050-0160-018S-0000
2-9	90	88	1	process wastewater	0050-0050-004S-0000
Totals for areas that were used for application	723	704	18		
Totals for areas that were not used for application	389	377	6		
Land application area totals	1,112	1,081	24		

**B. CROPS AND HARVESTS**

2-1

Field name: 2-1

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2-1

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage      Acres planted: 43      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	328.95 ton	As-is		50.1	9,100.00	3,000.00	12,800.00		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	198.80	39.20	266.00	0.00
Total actual harvest content	7.65	139.23	45.90	195.84	786.37

06/24/2023: Sorghum

Crop: Sorghum      Acres planted: 43      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 (%)
10/30/2023	613.01 ton	As-is		70.1	5,000.00	1,700.00	8,600.00		13.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	220.80	67.20	345.60	0.00
Total actual harvest content	14.26	142.56	48.47	245.20	1,133.84

2-10

Field name: 2-10

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage      Acres planted: 80      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,017.61 ton	As-is		41.5	8,900.00	2,700.00	12,100.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	198.80	39.20	266.00	0.00
Total actual harvest content	12.72	226.42	68.69	307.83	1,071.54

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2-11

Field name: 2-11

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 34 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	391.84 ton	As-is		40.7	9,800.00	2,700.00	12,000.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	255.60	50.40	342.00	0.00
Total actual harvest content	11.52	225.88	62.23	276.59	956.78

06/27/2023: Sorghum

Crop: Sorghum Acres planted: 34 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	680.34 ton	As-is		72.8	3,500.00	1,100.00	6,900.00		9.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	55.20	16.80	86.40	0.00
Total actual harvest content	20.01	140.07	44.02	276.14	1,045.00

2-12N

Field name: 2-12N

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 30 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	241.73 ton	As-is		6.9	33,100.00	2,600.00	25,400.00		9.62

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	392.00	81.60	542.40	0.00
Total actual harvest content	8.06	533.42	41.90	409.33	1,443.32

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**2-12S**Field name: 2-12S

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 76      Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	560.14 ton	As-is		7.8	35,600.00	2,800.00	24,700.00		8.62

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	392.00	81.60	542.40	0.00
Total actual harvest content	7.37	524.76	41.27	364.09	1,171.52

**2-13**Field name: 2-13

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage      Acres planted: 7      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	97.86 ton	As-is		60.7	3,100.00	1,700.00	7,100.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	170.40	33.60	228.00	0.00
Total actual harvest content	13.98	86.68	47.53	198.52	879.06

**2-14**Field name: 2-14

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2-14

01/02/2021: Pistachios

Crop: Pistachios      Acres planted: 70      Plant date: 01/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.01	0.01	0.01	0.01	0.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	0.10	0.10	0.01	0.01	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

2-2

Field name: 2-2

01/10/2021: Pistachios

Crop: Pistachios      Acres planted: 75      Plant date: 01/10/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.01	0.01	0.01	0.01	0.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	0.10	0.10	0.01	0.01	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

2-2A

Field name: 2-2A

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**2-2A**

01/10/2021: Pistachios

Crop: Pistachios      Acres planted: 66      Plant date: 01/10/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.01	0.01	0.01		0.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	0.10	0.10	0.01	0.01	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

**2-3**Field name: 2-3

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage      Acres planted: 170      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,195.30 ton	As-is		49.9	7,000.00	2,200.00	8,800.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	5.00	71.00	14.00	95.00	0.00
Total actual harvest content	7.03	98.44	30.94	123.75	556.57

**2-4**Field name: 2-4

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2-4

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage      Acres planted: 143      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,194.91 ton	As-is		47.3	8,000.00	3,100.00	13,500.00		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	198.80	39.20	266.00	0.00
Total actual harvest content	8.36	133.70	51.81	225.61	959.99

06/26/2023: Sorghum

Crop: Sorghum      Acres planted: 143      Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	2,172.00 ton	As-is		71.7	4,200.00	1,700.00	7,000.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	220.80	67.20	345.60	0.00
Total actual harvest content	15.19	127.59	51.64	212.64	928.46

2-5

Field name: 2-5

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage      Acres planted: 33      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	567.14 ton	As-is		54.8	5,400.00	2,100.00	8,800.00		7.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	14.00	198.80	39.20	266.00	0.00
Total actual harvest content	17.19	185.61	72.18	302.47	1,103.07

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2-5

07/01/2023: Sorghum

Crop: Sorghum      Acres planted: 33      Plant date: 07/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	645.28 ton	As-is		74.4	3,600.00	1,300.00	6,400.00		9.90
Anticipated harvest content									
Total actual harvest content									

2-6

Field name: 2-6

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage      Acres planted: 43      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	630.10 ton	As-is		58.8	3,800.00	2,100.00	7,800.00		9.60
Anticipated harvest content									
Total actual harvest content									

06/28/2023: Sorghum

Crop: Sorghum      Acres planted: 43      Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	937.71 ton	As-is		26.8	3,600.00	1,100.00	6,300.00		8.50
Anticipated harvest content									
Total actual harvest content									

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2-7E

Field name: 2-7E

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 33 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	563.18 ton	As-is		55.8	3,300.00	2,100.00	7,300.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	170.40	33.60	228.00	0.00
Total actual harvest content	17.07	112.64	71.68	249.16	905.18

06/23/2023: Sorghum

Crop: Sorghum Acres planted: 33 Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	643.33 ton	As-is		73.7	3,700.00	1,100.00	8,600.00		11.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	55.20	16.80	86.40	0.00
Total actual harvest content	19.49	144.26	42.89	335.31	1,168.99

2-7W

Field name: 2-7W

11/05/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 30 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	518.56 ton	As-is		57.5	3,900.00	1,800.00	6,000.00		5.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	170.40	33.60	228.00	0.00
Total actual harvest content	17.29	134.83	62.23	207.42	764.01

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2-7W

06/26/2023: Sorghum

Crop: Sorghum      Acres planted: 30      Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	527.47 ton	As-is		70.4	4,300.00	1,100.00	7,000.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	55.20	16.80	86.40	0.00
Total actual harvest content	17.58	151.21	38.68	246.15	1,061.69

2-8

Field name: 2-8

01/02/2021: Pistachios

Crop: Pistachios      Acres planted: 60      Plant date: 01/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.01	0.01	0.01		0.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	0.10	0.10	0.01	0.01	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

2-9

Field name: 2-9

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2-9

01/02/2021: Pistachios

Crop: Pistachios      Acres planted: 88      Plant date: 01/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 <i>ton</i>	As-is		0.1	0.01	0.01	0.01		0.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	0.10	0.10	0.01	0.01	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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

2-1 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-1

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/31/2023	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
Urea	Liquid commercial fertilizer	100.00	0.00	0.00	0.00	
Lagoon	Process wastewater	77.32	17.59	11.46	798.05	1,164,917.00 gal
Canal	Surface water	0.00	0.00	0.00	17.02	5,475,111.00 gal
Application event totals		177.32	17.59	11.46	815.07	

2-1 - 06/24/2023: Sorghum

Field name: 2-1

Crop: Sorghum

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	64.09	7.31	78.02	474.76	407,721.00 gal
Canal	Surface water	0.00	0.00	0.00	19.92	6,407,045.00 gal
Application event totals		64.09	7.31	78.02	494.68	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	54.94	6.27	66.87	406.94	349,475.00 gal
Canal	Surface water	0.00	0.00	0.00	20.28	6,523,537.00 gal
Application event totals		54.94	6.27	66.87	427.22	

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**2-1 - 06/24/2023: Sorghum**

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
Lagoon	Process wastewater	24.81	24.76	4.98	251.51	291,229.00 gal
Canal	Surface water	0.00	0.00	0.00	20.64	6,640,029.00 gal
Application event totals		24.81	24.76	4.98	272.15	
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
Lagoon	Process wastewater	34.73	34.66	6.97	352.11	407,721.00 gal
Canal	Surface water	0.00	0.00	0.00	20.46	6,581,783.00 gal
Application event totals		34.73	34.66	6.97	372.57	

**2-10 - 11/05/2022: Wheat, silage, boot stage**

Field name: 2-10

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.87	22.04	14.36	999.88	2,715,425.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	701.76	10,101,381.00 gal
Application event totals		96.87	22.04	14.36	1,701.65	

**2-11 - 11/05/2022: Wheat, silage, boot stage**

Field name: 2-11

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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2-11 - 11/05/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	91.90	20.91	13.62	948.59	1,094,859.00 gal
Canal	Surface water	0.00	0.00	0.00	16.68	4,242,580.00 gal
Application event totals		91.90	20.91	13.62	965.28	

2-11 - 06/27/2023: Sorghum

Field name: 2-11

Crop: Sorghum

Plant date: 06/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	99.76	11.38	121.44	738.99	501,811.00 gal
Canal	Surface water	0.00	0.00	0.00	19.91	5,063,725.00 gal
Application event totals		99.76	11.38	121.44	758.90	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.56	8.28	88.32	537.45	364,953.00 gal
Canal	Surface water	0.00	0.00	0.00	19.73	5,018,105.00 gal
Application event totals		72.56	8.28	88.32	557.18	
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
Canal	Surface water	0.00	0.00	0.00	22.06	5,611,154.00 gal
Application event totals		0.00	0.00	0.00	22.06	

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**2-11 - 06/27/2023: Sorghum**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/20/2023	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
Canal	Surface water	0.00	0.00	0.00	22.06	5,611,154.00 gal
Application event totals		0.00	0.00	0.00	22.06	

**2-12N - 01/01/2023: Alfalfa, hay**

Field name: 2-12N

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.61	5,074,450.00 gal
Application event totals		0.00	0.00	0.00	22.61	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.43	5,033,855.00 gal
Application event totals		0.00	0.00	0.00	22.43	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.61	5,074,450.00 gal
Application event totals		0.00	0.00	0.00	22.61	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.79	5,115,046.00 gal
Application event totals		0.00	0.00	0.00	22.79	

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2-12N - 01/01/2023: 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
Canal	Surface water	0.00	0.00	0.00	22.43	5,033,855.00 gal
Application event totals		0.00	0.00	0.00	22.43	
10/10/2023	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
Canal	Surface water	0.00	0.00	0.00	22.43	5,033,855.00 gal
Application event totals		0.00	0.00	0.00	22.43	

2-12S - 01/01/2023: Alfalfa, hay

Field name: 2-12S

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.72	12,915,240.00 gal
Application event totals		0.00	0.00	0.00	22.72	
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
Canal	Surface water	0.00	0.00	0.00	22.54	12,811,918.00 gal
Application event totals		0.00	0.00	0.00	22.54	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.72	12,915,240.00 gal
Application event totals		0.00	0.00	0.00	22.72	

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2-12S - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.90	13,018,562.00 gal
Application event totals		0.00	0.00	0.00	22.90	
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
Canal	Surface water	0.00	0.00	0.00	22.54	12,811,918.00 gal
Application event totals		0.00	0.00	0.00	22.54	
10/10/2023	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
Canal	Surface water	0.00	0.00	0.00	22.54	12,811,918.00 gal
Application event totals		0.00	0.00	0.00	22.54	

2-13 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-13

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/02/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	48.90	8.09	102.48	536.81	90,967.00 gal
Madera Well	Ground water	0.00	0.00	0.00	1,149.35	836,894.00 gal
Application event totals		48.90	8.09	102.48	1,686.15	

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2-13 - 11/05/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
01/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	37.09	8.44	5.50	382.81
Madera Well	Ground water	0.00	0.00	0.00	1,261.78
Application event totals		37.09	8.44	5.50	1,644.60

2-14 - 01/02/2021: Pistachios

Field name: 2-14

Crop: Pistachios Plant date: 01/02/2021

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)
Canal	Surface water	0.00	0.00	0.00	19.97
Application event totals		0.00	0.00	0.00	19.97
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)
Canal	Surface water	0.00	0.00	0.00	18.15
Application event totals		0.00	0.00	0.00	18.15
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)
Canal	Surface water	0.00	0.00	0.00	19.06
Application event totals		0.00	0.00	0.00	19.06
08/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	19.97
Application event totals		0.00	0.00	0.00	19.97

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2-14 - 01/02/2021: Pistachios

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)
2-14	Ground water	0.24	0.00	0.00	1,284.83
Application event totals		0.24	0.00	0.00	1,284.83

2-2 - 01/10/2021: Pistachios

Field name: 2-2

Crop: Pistachios

Plant date: 01/10/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
2-14	Ground water	0.20	0.00	0.00	1,101.29
Application event totals		0.20	0.00	0.00	1,101.29
04/01/2023	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)
Canal	Surface water	0.00	0.00	0.00	15.43
Application event totals		0.00	0.00	0.00	15.43
06/15/2023	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)
Canal	Surface water	0.00	0.00	0.00	19.06
Application event totals		0.00	0.00	0.00	19.06
08/05/2023	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)
Canal	Surface water	0.00	0.00	0.00	19.97
Application event totals		0.00	0.00	0.00	19.97

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**2-2 - 01/10/2021: Pistachios**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
2-14	Ground water	0.24	0.00	0.00	1,284.83	10,691,986.00 gal
Application event totals		0.24	0.00	0.00	1,284.83	

**2-2A - 01/10/2021: Pistachios**

Field name: 2-2A

Crop: Pistachios

Plant date: 01/10/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/04/2023	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
2-14	Ground water	0.20	0.00	0.00	1,106.29	8,101,470.00 gal
Application event totals		0.20	0.00	0.00	1,106.29	
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
Canal	Surface water	0.00	0.00	0.00	15.50	7,651,389.00 gal
Application event totals		0.00	0.00	0.00	15.50	
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
Canal	Surface water	0.00	0.00	0.00	20.06	9,901,797.00 gal
Application event totals		0.00	0.00	0.00	20.06	
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
Canal	Surface water	0.00	0.00	0.00	18.23	9,001,634.00 gal
Application event totals		0.00	0.00	0.00	18.23	

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**2-2A - 01/10/2021: Pistachios**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/29/2023	Pipeline	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
2-14	Ground water	0.23	0.00	0.00	1,229.21
Application event totals		0.23	0.00	0.00	1,229.21
					9,001,634.00 gal

**2-3 - 11/05/2022: Wheat, silage, boot stage**

Field name: 2-3

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

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)
Urea	Liquid commercial fertilizer	50.00	0.00	0.00	0.00
Lagoon	Process wastewater	69.87	15.89	10.36	721.19
Canal	Surface water	0.00	0.00	0.00	17.09
Application event totals		119.87	15.89	10.36	738.28
					4,161,932.00 gal
					21,734,533.00 gal

**2-4 - 11/05/2022: Wheat, silage, boot stage**

Field name: 2-4

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Urea	Liquid commercial fertilizer	50.00	0.00	0.00	0.00
Lagoon	Process wastewater	100.96	22.97	14.97	1,042.06
Canal	Surface water	0.00	0.00	0.00	16.73
Application event totals		150.96	22.97	14.97	1,058.79
					5,058,565.00 gal
					17,899,539.00 gal

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2-4 - 06/26/2023: Sorghum

Field name: 2-4

Crop: Sorghum

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	64.38	7.34	78.36	476.86	1,361,921.00 gal
Canal	Surface water	0.00	0.00	0.00	20.01	21,401,622.00 gal
Application event totals		64.38	7.34	78.36	496.87	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	55.18	6.29	67.17	408.74	1,167,361.00 gal
Canal	Surface water	0.00	0.00	0.00	20.37	21,790,743.00 gal
Application event totals		55.18	6.29	67.17	429.11	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	24.92	24.86	5.00	252.62	972,801.00 gal
Canal	Surface water	0.00	0.00	0.00	20.55	21,985,303.00 gal
Application event totals		24.92	24.86	5.00	273.18	
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
Lagoon	Process wastewater	24.92	24.86	5.00	252.62	972,801.00 gal
Canal	Surface water	0.00	0.00	0.00	20.37	21,790,743.00 gal
Application event totals		24.92	24.86	5.00	273.00	

2-5 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-5

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**2-5 - 11/05/2022: Wheat, silage, boot stage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	103.41	17.11	216.73	1,135.28	906,952.00 gal
Canal	Surface water	0.00	0.00	0.00	16.35	4,035,936.00 gal
Application event totals		103.41	17.11	216.73	1,151.63	
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
Lagoon	Process wastewater	58.83	13.38	8.72	607.20	680,214.00 gal
Canal	Surface water	0.00	0.00	0.00	18.74	4,625,455.00 gal
Application event totals		58.83	13.38	8.72	625.94	
03/29/2023	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
Lagoon	Process wastewater	58.83	13.38	8.72	607.20	680,214.00 gal
Canal	Surface water	0.00	0.00	0.00	16.90	4,171,979.00 gal
Application event totals		58.83	13.38	8.72	624.10	

**2-5 - 07/01/2023: Sorghum**

Field name: 2-5

Crop: Sorghum

Plant date: 07/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	46.44	5.30	56.53	344.02	226,738.00 gal
Canal	Surface water	0.00	0.00	0.00	20.58	5,078,931.00 gal
Application event totals		46.44	5.30	56.53	364.60	

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**2-5 - 07/01/2023: Sorghum**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/27/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	55.73	6.36	67.84	412.83	272,086.00 gal
Canal	Surface water	0.00	0.00	0.00	20.39	5,033,583.00 gal
Application event totals		55.73	6.36	67.84	433.22	
08/21/2023	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
Lagoon	Process wastewater	35.23	35.16	7.07	357.21	317,433.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	840.11	4,988,236.00 gal
Application event totals		35.23	35.16	7.07	1,197.32	
09/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	30.20	30.14	6.06	306.18	272,086.00 gal
Canal	Surface water	0.00	0.00	0.00	20.21	4,988,236.00 gal
Application event totals		30.20	30.14	6.06	326.39	

**2-6 - 11/05/2022: Wheat, silage, boot stage**

Field name: 2-6

Crop: Wheat, silage, boot stage Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/08/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	56.07	9.28	117.50	615.49	640,705.00 gal
Dairy Well North	Ground water	0.00	0.00	0.00	771.48	5,300,374.00 gal
Application event totals		56.07	9.28	117.50	1,386.97	

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2-6 - 11/05/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	42.52	9.67	6.30	438.93	640,705.00 gal
Dairy Well North	Ground water	0.00	0.00	0.00	856.26	5,882,832.00 gal
Application event totals		42.52	9.67	6.30	1,295.19	
03/26/2023	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
Lagoon	Process wastewater	42.52	9.67	6.30	438.93	640,705.00 gal
Canal	Surface water	0.00	0.00	0.00	16.84	5,416,866.00 gal
Application event totals		42.52	9.67	6.30	455.77	

2-6 - 06/28/2023: Sorghum

Field name: 2-6

Crop: Sorghum

Plant date: 06/28/2023

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
Lagoon	Process wastewater	73.25	8.36	89.16	542.58	465,967.00 gal
Canal	Surface water	0.00	0.00	0.00	20.28	6,523,537.00 gal
Application event totals		73.25	8.36	89.16	562.86	
07/24/2023	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
Lagoon	Process wastewater	64.09	7.31	78.02	474.76	407,721.00 gal
Canal	Surface water	0.00	0.00	0.00	20.28	6,523,537.00 gal
Application event totals		64.09	7.31	78.02	495.04	

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2-6 - 06/28/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	39.69	39.61	7.97	402.41	465,967.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	835.64	6,465,291.00 gal
Application event totals		39.69	39.61	7.97	1,238.06	
09/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	29.77	29.71	5.98	301.81	349,475.00 gal
Canal	Surface water	0.00	0.00	0.00	19.92	6,407,045.00 gal
Application event totals		29.77	29.71	5.98	321.73	

2-7E - 11/05/2022: Wheat, silage, boot stage

Field name: 2-7E

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	51.24	8.48	107.39	562.54	449,403.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	681.18	4,044,626.00 gal
Application event totals		51.24	8.48	107.39	1,243.73	
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
Lagoon	Process wastewater	38.87	8.84	5.76	401.17	449,403.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	756.87	4,494,028.00 gal
Application event totals		38.87	8.84	5.76	1,158.04	

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2-7E - 11/05/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	38.87	8.84	5.76	401.17
Canal	Surface water	0.00	0.00	0.00	16.75
Application event totals		38.87	8.84	5.76	417.91

2-7E - 06/23/2023: Sorghum

Field name: 2-7E

Crop: Sorghum

Plant date: 06/23/2023

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)
Lagoon	Process wastewater	55.23	6.30	67.23	409.12
Canal	Surface water	0.00	0.00	0.00	20.39
Application event totals		55.23	6.30	67.23	429.51
07/18/2023	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)
Lagoon	Process wastewater	73.64	8.40	89.64	545.49
Canal	Surface water	0.00	0.00	0.00	20.21
Application event totals		73.64	8.40	89.64	565.70
08/13/2023	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)
Lagoon	Process wastewater	34.91	34.84	7.01	354.00
Dairy Well South	Ground water	0.00	0.00	0.00	847.70
Application event totals		34.91	34.84	7.01	1,201.70

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2-7E - 06/23/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	20.03	4,943,431.00 gal
Application event totals		0.00	0.00	0.00	20.03	

2-7W - 11/05/2022: Wheat, silage, boot stage

Field name: 2-7W

Crop: Wheat, silage, boot stage Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	103.20	17.07	216.28	1,132.90	822,774.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	685.92	3,702,482.00 gal
Application event totals		103.20	17.07	216.28	1,818.82	
01/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	39.14	8.90	5.80	403.95	411,387.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	762.13	4,113,869.00 gal
Application event totals		39.14	8.90	5.80	1,166.08	
03/20/2023	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
Lagoon	Process wastewater	39.14	8.90	5.80	403.95	411,387.00 gal
Canal	Surface water	0.00	0.00	0.00	16.87	3,784,759.00 gal
Application event totals		39.14	8.90	5.80	420.82	

2-7W - 06/26/2023: Sorghum

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2-7W - 06/26/2023: Sorghum

Field name: 2-7W

Crop: Sorghum

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	74.15	8.46	90.27	549.28	329,110.00 gal
Canal	Surface water	0.00	0.00	0.00	20.53	4,607,533.00 gal
Application event totals		74.15	8.46	90.27	569.82	
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
Lagoon	Process wastewater	64.88	7.40	78.98	480.62	287,971.00 gal
Canal	Surface water	0.00	0.00	0.00	20.53	4,607,533.00 gal
Application event totals		64.88	7.40	78.98	501.16	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	30.14	30.07	6.05	305.54	246,832.00 gal
Dairy Well South	Ground water	0.00	0.00	0.00	838.34	4,525,256.00 gal
Application event totals		30.14	30.07	6.05	1,143.88	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	25.11	25.06	5.04	254.62	205,693.00 gal
Canal	Surface water	0.00	0.00	0.00	19.98	4,484,117.00 gal
Application event totals		25.11	25.06	5.04	274.60	

2-8 - 01/02/2021: Pistachios

Field name: 2-8

Crop: Pistachios

Plant date: 01/02/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**2-8 - 01/02/2021: Pistachios**

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
Canal	Surface water	0.00	0.00	0.00	19.97	8,960,903.00 gal
Application event totals		0.00	0.00	0.00	19.97	
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
Canal	Surface water	0.00	0.00	0.00	18.15	8,146,275.00 gal
Application event totals		0.00	0.00	0.00	18.15	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.06	8,553,589.00 gal
Application event totals		0.00	0.00	0.00	19.06	
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
Canal	Surface water	0.00	0.00	0.00	19.97	8,960,903.00 gal
Application event totals		0.00	0.00	0.00	19.97	
09/27/2023	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
2-14	Ground water	0.24	0.00	0.00	1,284.83	8,553,589.00 gal
Application event totals		0.24	0.00	0.00	1,284.83	

**2-9 - 01/02/2021: Pistachios**

Field name: 2-9

Crop: Pistachios

Plant date: 01/02/2021

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

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2-9 - 01/02/2021: Pistachios

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	91.46	10.43	111.33	677.49	1,190,714.00 gal
Canal	Surface water	0.00	0.00	0.00	20.80	13,693,209.00 gal
Application event totals		91.46	10.43	111.33	698.29	
08/19/2023	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
Canal	Surface water	0.00	0.00	0.00	18.99	12,502,496.00 gal
Application event totals		0.00	0.00	0.00	18.99	
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
Canal	Surface water	0.00	0.00	0.00	3.62	2,381,428.00 gal
Application event totals		0.00	0.00	0.00	3.62	

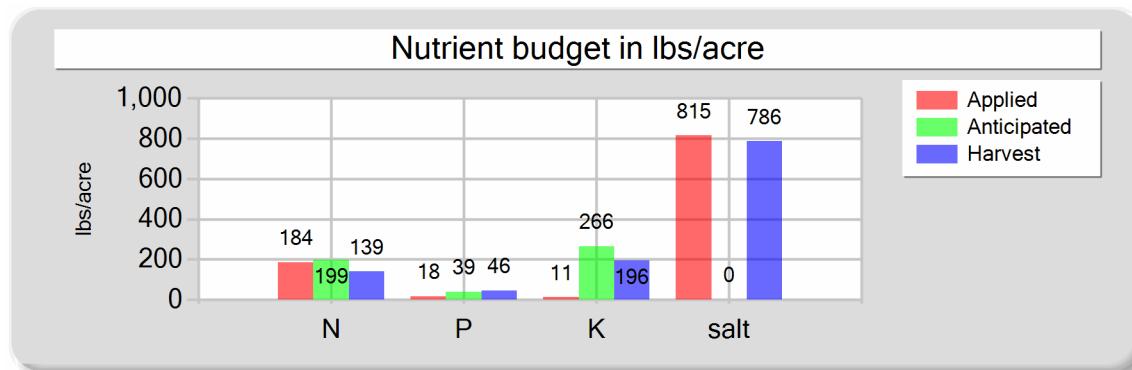
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**B. NUTRIENT BUDGET**

2-1 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-1      Crop: Wheat, silage, boot stage      Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	100.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	77.32	17.59	11.46	798.05
Fresh water	0.00	0.00	0.00	17.02
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>184.32</b>	<b>17.59</b>	<b>11.46</b>	<b>815.07</b>
Anticipated crop nutrient removal	198.80	39.20	266.00	0.00
Actual crop nutrient removal	139.23	45.90	195.84	786.37
Nutrient balance	45.09	-28.31	-184.38	28.69
Applied to removed ratio	1.32	0.38	0.06	1.04

Fresh water applied
5,475,111.00 gallons
201.63 acre-inches
4.69 inches/acre
Process wastewater applied
1,164,917.00 gallons
42.90 acre-inches
1.00 inches/acre
Total harvests for the crop
1 harvests

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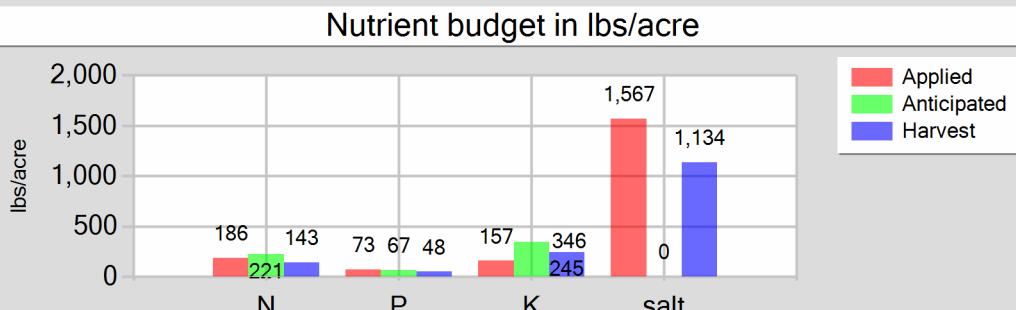
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2-1 - 06/24/2023: Sorghum

Field name: 2-1

Crop: Sorghum

Plant date: 06/24/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	178.56	72.99	156.84	1,485.31
Fresh water	0.00	0.00	0.00	81.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	185.56	72.99	156.84	1,566.62
Anticipated crop nutrient removal	220.80	67.20	345.60	0.00
Actual crop nutrient removal	142.56	48.47	245.20	1,133.84
Nutrient balance	43.00	24.52	-88.36	432.78
Applied to removed ratio	1.30	1.51	0.64	1.38

**Fresh water applied**

26,152,394.00 gallons  
963.10 acre-inches  
22.40 inches/acre

**Process wastewater applied**

1,456,146.00 gallons  
53.62 acre-inches  
1.25 inches/acre

**Total harvests for the crop**

1 harvests

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

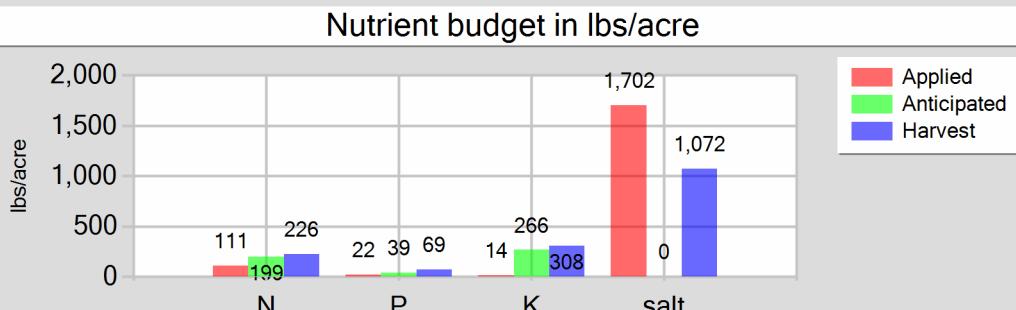
Reporting period 01/01/2023 to 12/31/2023.

2-10 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-10

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	10,101,381.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	372.00 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.65 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	96.87	22.04	14.36	999.88	Process wastewater applied
Fresh water	0.00	0.00	0.00	701.76	2,715,425.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	100.00 acre-inches
Total nutrients applied	110.87	22.04	14.36	1,701.65	1.25 inches/acre
Anticipated crop nutrient removal	198.80	39.20	266.00	0.00	
Actual crop nutrient removal	226.42	68.69	307.83	1,071.54	Total harvests for the crop
Nutrient balance	-115.55	-46.65	-293.47	630.10	1 harvests
Applied to removed ratio	0.49	0.32	0.05	1.59	

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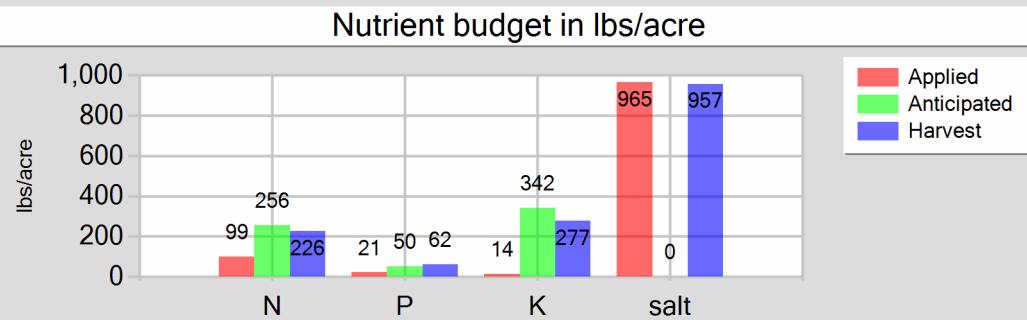
Reporting period 01/01/2023 to 12/31/2023.

2-11 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-11

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	91.90	20.91	13.62	948.59
Fresh water	0.00	0.00	0.00	16.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	98.90	20.91	13.62	965.28
Anticipated crop nutrient removal	255.60	50.40	342.00	0.00
Actual crop nutrient removal	225.88	62.23	276.59	956.78
Nutrient balance	-126.98	-41.33	-262.97	8.49
Applied to removed ratio	0.44	0.34	0.05	1.01

**Fresh water applied**

4,242,580.00 gallons  
156.24 acre-inches  
4.60 inches/acre

**Process wastewater applied**

1,094,859.00 gallons  
40.32 acre-inches  
1.19 inches/acre

**Total harvests for the crop**

1 harvests

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

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

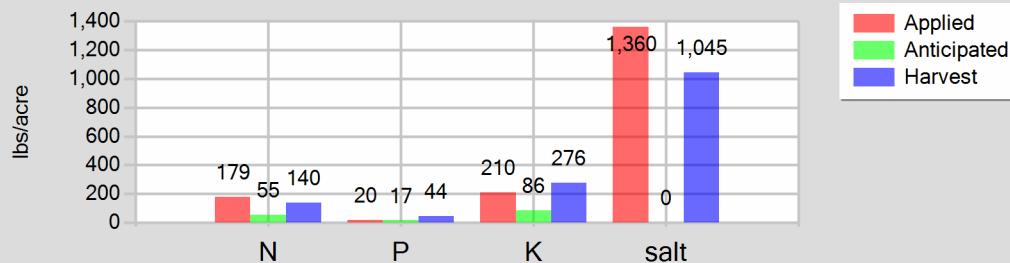
2-11 - 06/27/2023: Sorghum

Field name: 2-11

Crop: Sorghum

Plant date: 06/27/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	172.32	19.66	209.76	1,276.44
Fresh water	0.00	0.00	0.00	83.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	179.32	19.66	209.76	1,360.20
Anticipated crop nutrient removal	55.20	16.80	86.40	0.00
Actual crop nutrient removal	140.07	44.02	276.14	1,045.00
Nutrient balance	39.25	-24.36	-66.38	315.20
Applied to removed ratio	1.28	0.45	0.76	1.30

**Fresh water applied**

21,304,138.00 gallons  
784.56 acre-inches  
23.08 inches/acre

**Process wastewater applied**

866,764.00 gallons  
31.92 acre-inches  
0.94 inches/acre

**Total harvests for the crop**

1 harvests

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

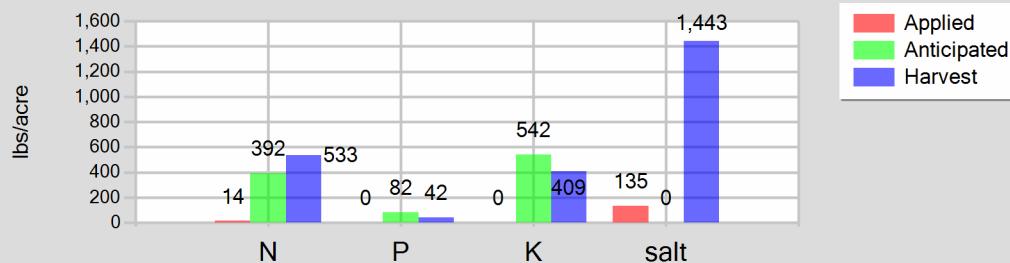
2-12N - 01/01/2023: Alfalfa, hay

Field name: 2-12N

Crop: Alfalfa, hay

Plant date: 01/01/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	30,365,511.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,118.26 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.28 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	135.32	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.00	0.00	0.00	135.32	
Anticipated crop nutrient removal	392.00	81.60	542.40	0.00	
Actual crop nutrient removal	533.42	41.90	409.33	1,443.32	
Nutrient balance	-519.42	-41.90	-409.33	-1,308.01	
Applied to removed ratio	0.03	0.00	0.00	0.09	
Total harvests for the crop					1 harvests

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

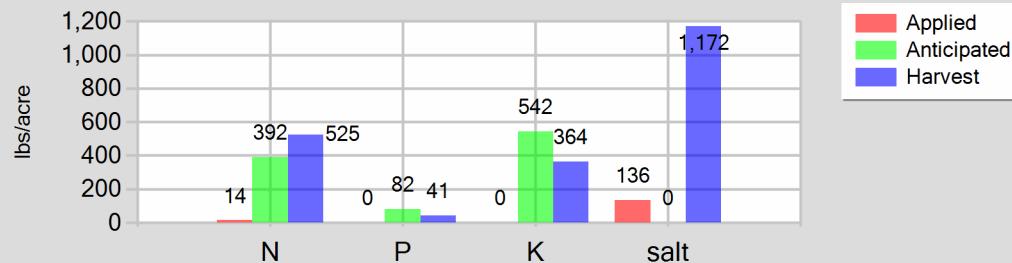
2-12S - 01/01/2023: Alfalfa, hay

Field name: 2-12S

Crop: Alfalfa, hay

Plant date: 01/01/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	135.95
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	135.95
Anticipated crop nutrient removal	392.00	81.60	542.40	0.00
Actual crop nutrient removal	524.76	41.27	364.09	1,171.52
Nutrient balance	-510.76	-41.27	-364.09	-1,035.58
Applied to removed ratio	0.03	0.00	0.00	0.12

**Fresh water applied**

77,284,796.00 gallons  
2,846.14 acre-inches  
37.45 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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

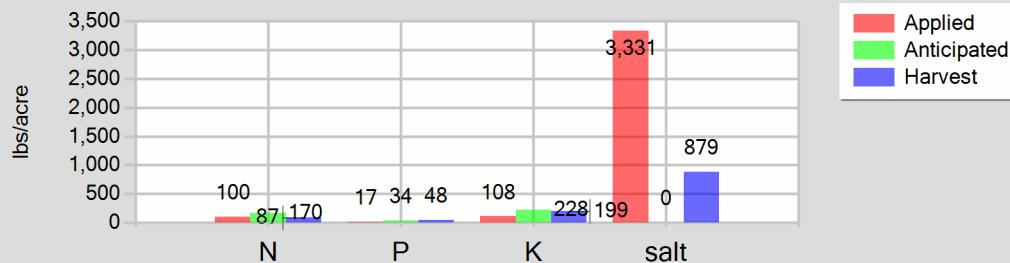
2-13 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-13

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	85.99	16.53	107.98	919.62
Fresh water	0.00	0.00	0.00	2,411.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	99.99	16.53	107.98	3,330.75
Anticipated crop nutrient removal	170.40	33.60	228.00	0.00
Actual crop nutrient removal	86.68	47.53	198.52	879.06
Nutrient balance	13.31	-31.00	-90.54	2,451.69
Applied to removed ratio	1.15	0.35	0.54	3.79

**Fresh water applied**

1,755,658.00 gallons  
64.65 acre-inches  
9.24 inches/acre

**Process wastewater applied**

181,934.00 gallons  
6.70 acre-inches  
0.96 inches/acre

**Total harvests for the crop**

1 harvests

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

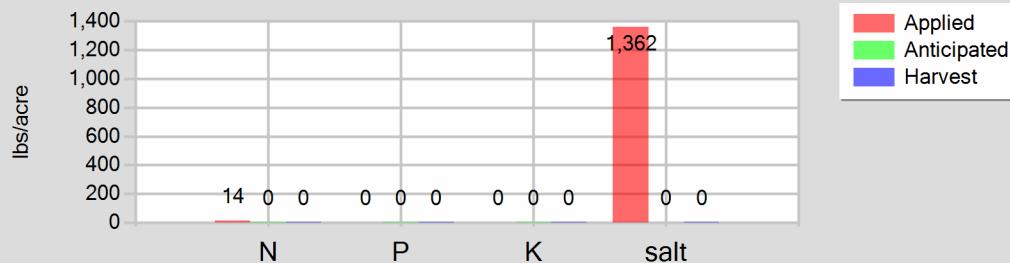
2-14 - 01/02/2021: Pistachios

Field name: 2-14

Crop: Pistachios

Plant date: 01/02/2021

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.24	0.00	0.00	1,361.98
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.24	0.00	0.00	1,361.98
Anticipated crop nutrient removal	0.10	0.01	0.01	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	14.24	0.00	0.00	1,361.98
Applied to removed ratio	4,983,276,315.52	0.00	0.00	47,716,864.33

**Fresh water applied**

50,371,134.00 *gallons*  
1,855.00 *acre-inches*  
26.50 *inches/acre*

**Process wastewater applied**

0.00 *gallons*  
0.00 *acre-inches*  
0.00 *inches/acre*

**Total harvests for the crop**

1 *harvests*

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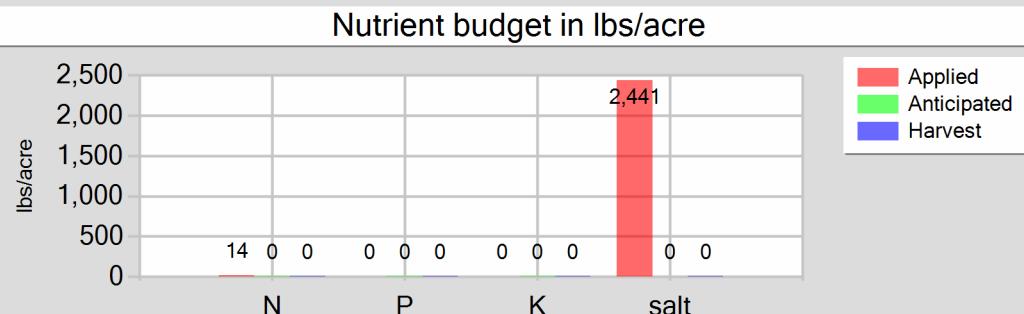
Reporting period 01/01/2023 to 12/31/2023.

2-2 - 01/10/2021: Pistachios

Field name: 2-2

Crop: Pistachios

Plant date: 01/10/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.44	0.00	0.00	2,440.57
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.44	0.00	0.00	2,440.57
Anticipated crop nutrient removal	0.10	0.01	0.01	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	14.44	0.00	0.00	2,440.57
Applied to removed ratio	5,415,702,868.03	0.00	0.00	91,613,131.07

**Fresh water applied**

50,405,076.00 gallons  
1,856.25 acre-inches  
24.75 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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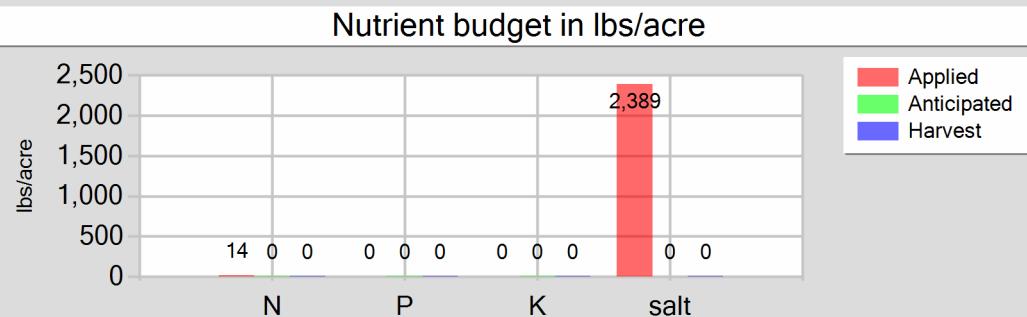
Reporting period 01/01/2023 to 12/31/2023.

2-2A - 01/10/2021: Pistachios

Field name: 2-2A

Crop: Pistachios

Plant date: 01/10/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.43	0.00	0.00	2,389.29
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.43	0.00	0.00	2,389.29
Anticipated crop nutrient removal	0.10	0.01	0.01	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	14.43	0.00	0.00	2,389.29
Applied to removed ratio	4,762,725,402.88	0.00	0.00	78,925,659.00

**Fresh water applied**

43,657,924.00 *gallons*  
1,607.77 *acre-inches*  
24.36 *inches/acre*

**Process wastewater applied**

0.00 *gallons*  
0.00 *acre-inches*  
0.00 *inches/acre*

**Total harvests for the crop**

1 *harvests*

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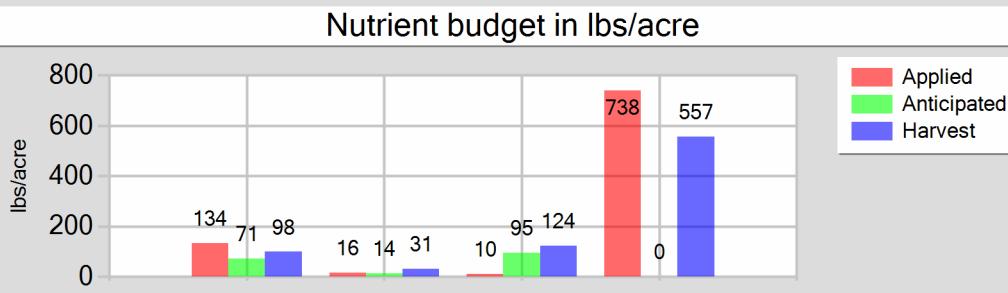
Reporting period 01/01/2023 to 12/31/2023.

2-3 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-3

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,734,533.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	800.41 acre-inches
Commercial fertilizer / Other	50.00	0.00	0.00	0.00	4.71 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	69.87	15.89	10.36	721.19	4,161,932.00 gallons
Fresh water	0.00	0.00	0.00	17.09	153.27 acre-inches
Atmospheric deposition	14.00	0.00	0.00	0.00	0.90 inches/acre
Total nutrients applied	133.87	15.89	10.36	738.28	
Anticipated crop nutrient removal	71.00	14.00	95.00	0.00	
Actual crop nutrient removal	98.44	30.94	123.75	556.57	
Nutrient balance	35.43	-15.04	-113.39	181.70	
Applied to removed ratio	1.36	0.51	0.08	1.33	
Total harvests for the crop					1 harvests

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

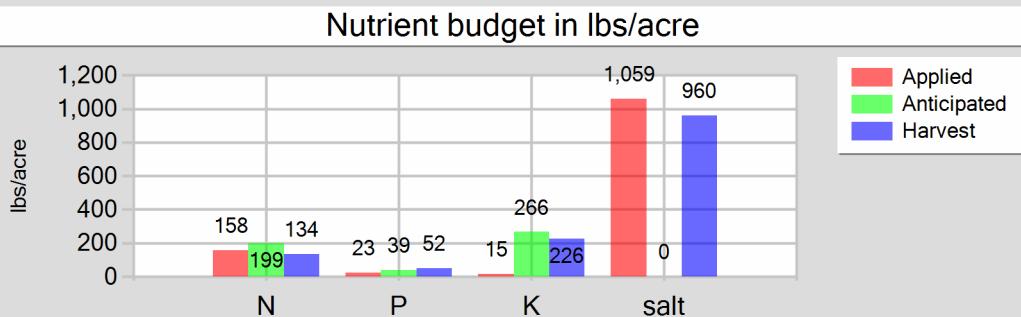
Reporting period 01/01/2023 to 12/31/2023.

2-4 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-4

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	50.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	100.96	22.97	14.97	1,042.06
Fresh water	0.00	0.00	0.00	16.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	157.96	22.97	14.97	1,058.79
Anticipated crop nutrient removal	198.80	39.20	266.00	0.00
Actual crop nutrient removal	133.70	51.81	225.61	959.99
Nutrient balance	24.26	-28.84	-210.65	98.80
Applied to removed ratio	1.18	0.44	0.07	1.10

**Fresh water applied**

17,899,539.00 gallons  
659.18 acre-inches  
4.61 inches/acre

**Process wastewater applied**

5,058,565.00 gallons  
186.29 acre-inches  
1.30 inches/acre

**Total harvests for the crop**

1 harvests

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

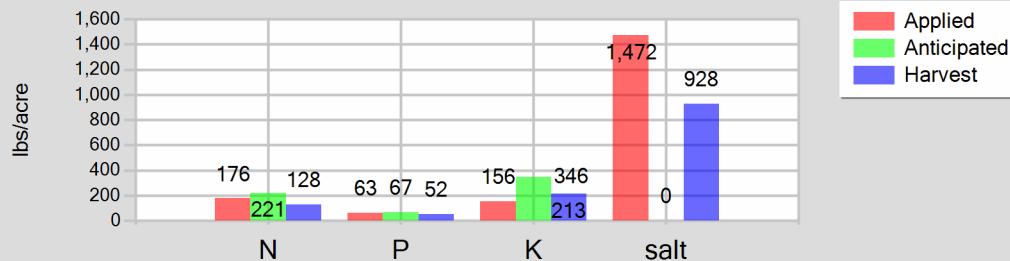
2-4 - 06/26/2023: Sorghum

Field name: 2-4

Crop: Sorghum

Plant date: 06/26/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	169.39	63.37	155.54	1,390.85
Fresh water	0.00	0.00	0.00	81.30
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	176.39	63.37	155.54	1,472.15
Anticipated crop nutrient removal	220.80	67.20	345.60	0.00
Actual crop nutrient removal	127.59	51.64	212.64	928.46
Nutrient balance	48.80	11.73	-57.11	543.69
Applied to removed ratio	1.38	1.23	0.73	1.59

**Fresh water applied**

86,968,411.00 gallons  
3,202.75 acre-inches  
22.40 inches/acre

**Process wastewater applied**

4,474,884.00 gallons  
164.79 acre-inches  
1.15 inches/acre

**Total harvests for the crop**

1 harvests

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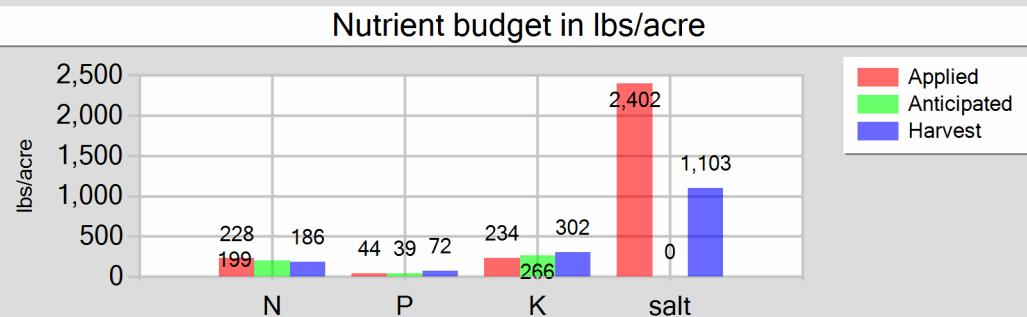
Reporting period 01/01/2023 to 12/31/2023.

2-5 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-5

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	221.07	43.87	234.18	2,349.68
Fresh water	0.00	0.00	0.00	51.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	228.07	43.87	234.18	2,401.67
Anticipated crop nutrient removal	198.80	39.20	266.00	0.00
Actual crop nutrient removal	185.61	72.18	302.47	1,103.07
Nutrient balance	42.46	-28.31	-68.30	1,298.60
Applied to removed ratio	1.23	0.61	0.77	2.18

**Fresh water applied**

12,833,370.00 gallons  
472.61 acre-inches  
14.32 inches/acre

**Process wastewater applied**

2,267,380.00 gallons  
83.50 acre-inches  
2.53 inches/acre

**Total harvests for the crop**

1 harvests

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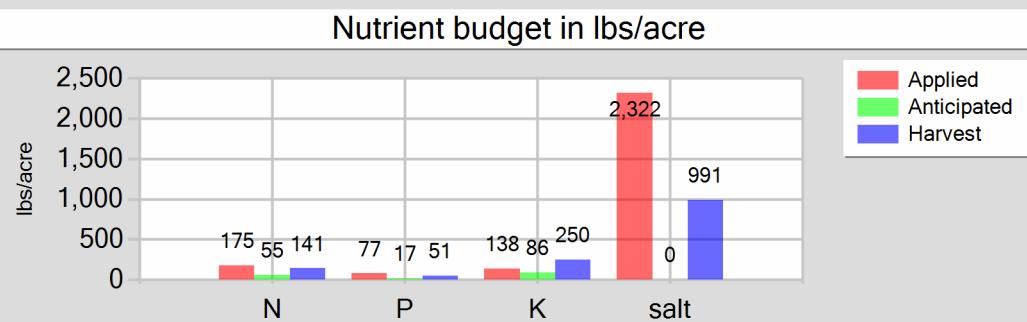
Reporting period 01/01/2023 to 12/31/2023.

2-5 - 07/01/2023: Sorghum

Field name: 2-5

Crop: Sorghum

Plant date: 07/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	167.60	76.95	137.51	1,420.24
Fresh water	0.00	0.00	0.00	901.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	174.60	76.95	137.51	2,321.52
Anticipated crop nutrient removal	55.20	16.80	86.40	0.00
Actual crop nutrient removal	140.79	50.84	250.29	991.15
Nutrient balance	33.82	26.11	-112.78	1,330.37
Applied to removed ratio	1.24	1.51	0.55	2.34

**Fresh water applied**

20,088,986.00 gallons  
739.81 acre-inches  
22.42 inches/acre

**Process wastewater applied**

1,088,343.00 gallons  
40.08 acre-inches  
1.21 inches/acre

**Total harvests for the crop**

1 harvests

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

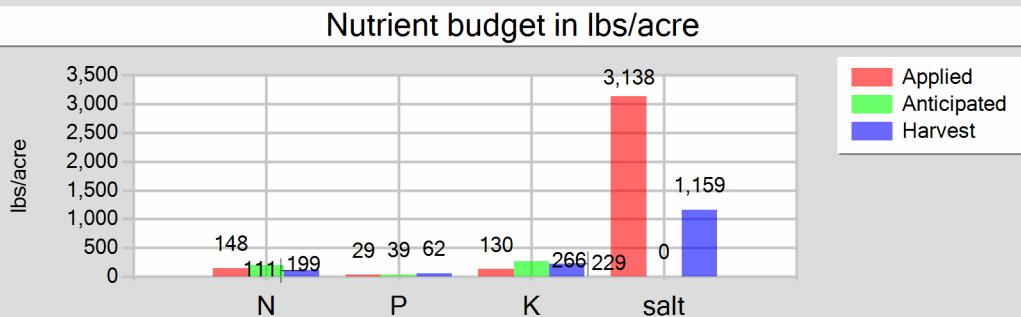
Reporting period 01/01/2023 to 12/31/2023.

2-6 - 11/05/2022: Wheat, silage, boot stage

Field name: 2-6

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	141.12	28.62	130.11	1,493.34
Fresh water	0.00	0.00	0.00	1,644.58
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	148.12	28.62	130.11	3,137.92
Anticipated crop nutrient removal	198.80	39.20	266.00	0.00
Actual crop nutrient removal	111.37	61.54	228.59	1,159.15
Nutrient balance	36.75	-32.92	-98.48	1,978.77
Applied to removed ratio	1.33	0.47	0.57	2.71

**Fresh water applied**

16,600,072.00 gallons  
611.32 acre-inches  
14.22 inches/acre

**Process wastewater applied**

1,922,115.00 gallons  
70.78 acre-inches  
1.65 inches/acre

**Total harvests for the crop**

1 harvests

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

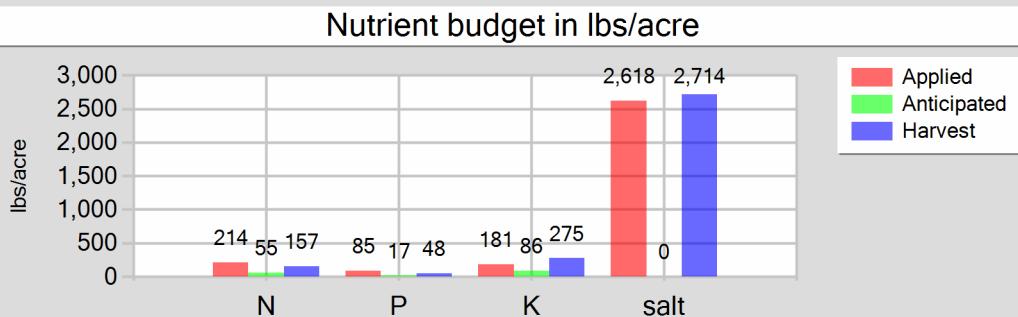
Reporting period 01/01/2023 to 12/31/2023.

2-6 - 06/28/2023: Sorghum

Field name: 2-6

Crop: Sorghum

Plant date: 06/28/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	206.80	84.98	181.12	1,721.56
Fresh water	0.00	0.00	0.00	896.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	213.80	84.98	181.12	2,617.69
Anticipated crop nutrient removal	55.20	16.80	86.40	0.00
Actual crop nutrient removal	157.01	47.98	274.77	2,713.69
Nutrient balance	56.79	37.01	-93.65	-96.00
Applied to removed ratio	1.36	1.77	0.66	0.96

**Fresh water applied**

25,919,410.00 gallons  
954.52 acre-inches  
22.20 inches/acre

**Process wastewater applied**

1,689,130.00 gallons  
62.20 acre-inches  
1.45 inches/acre

**Total harvests for the crop**

1 harvests

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

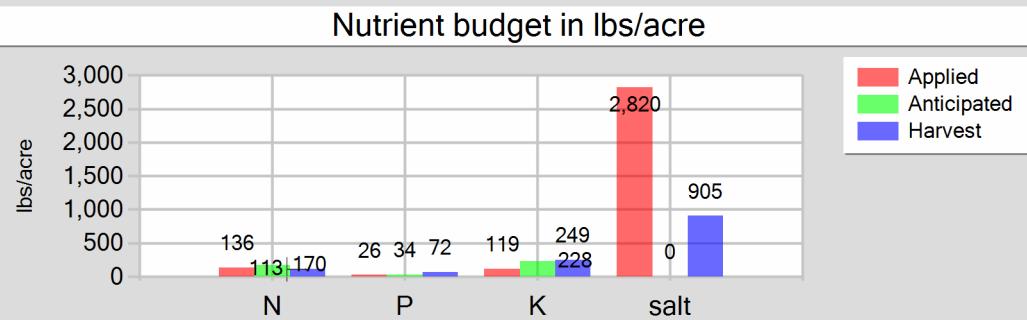
Reporting period 01/01/2023 to 12/31/2023.

2-7E - 11/05/2022: Wheat, silage, boot stage

Field name: 2-7E

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	12,673,160.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	466.71 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.14 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	128.98	26.16	118.92	1,364.87	Process wastewater applied
Fresh water	0.00	0.00	0.00	1,454.81	1,348,209.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	49.65 acre-inches
Total nutrients applied	135.98	26.16	118.92	2,819.68	1.50 inches/acre
Anticipated crop nutrient removal	170.40	33.60	228.00	0.00	
Actual crop nutrient removal	112.64	71.68	249.16	905.18	Total harvests for the crop
Nutrient balance	23.34	-45.52	-130.25	1,914.49	1 harvests
Applied to removed ratio	1.21	0.36	0.48	3.12	

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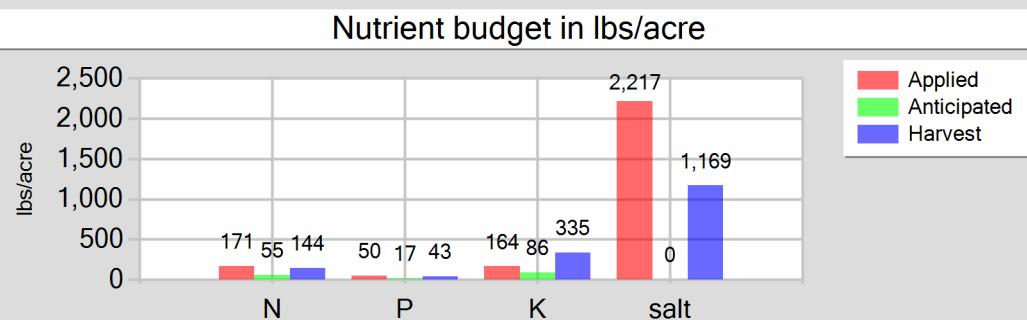
Reporting period 01/01/2023 to 12/31/2023.

2-7E - 06/23/2023: Sorghum

Field name: 2-7E

Crop: Sorghum

Plant date: 06/23/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	163.79	49.54	163.88	1,308.62
Fresh water	0.00	0.00	0.00	908.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	170.79	49.54	163.88	2,216.94
Anticipated crop nutrient removal	55.20	16.80	86.40	0.00
Actual crop nutrient removal	144.26	42.89	335.31	1,168.99
Nutrient balance	26.53	6.66	-171.43	1,047.95
Applied to removed ratio	1.18	1.16	0.49	1.90

**Fresh water applied**

19,998,426.00 gallons  
736.47 acre-inches  
22.32 inches/acre

**Process wastewater applied**

943,746.00 gallons  
34.75 acre-inches  
1.05 inches/acre

**Total harvests for the crop**

1 harvests

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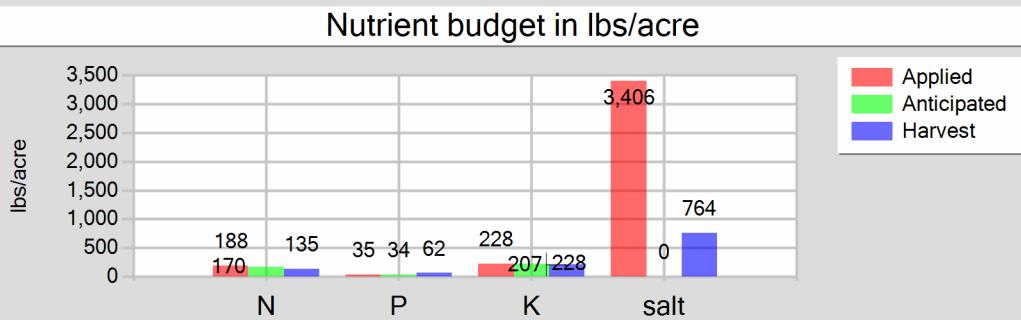
Reporting period 01/01/2023 to 12/31/2023.

2-7W - 11/05/2022: Wheat, silage, boot stage

Field name: 2-7W

Crop: Wheat, silage, boot stage

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	11,601,110.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	427.23 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.24 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	181.47	34.88	227.88	1,940.80	Process wastewater applied
Fresh water	0.00	0.00	0.00	1,464.92	1,645,548.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	60.60 acre-inches
Total nutrients applied	188.47	34.88	227.88	3,405.72	2.02 inches/acre
Anticipated crop nutrient removal	170.40	33.60	228.00	0.00	Total harvests for the crop
Actual crop nutrient removal	134.83	62.23	207.42	764.01	1 harvests
Nutrient balance	53.64	-27.35	20.46	2,641.71	
Applied to removed ratio	1.40	0.56	1.10	4.46	

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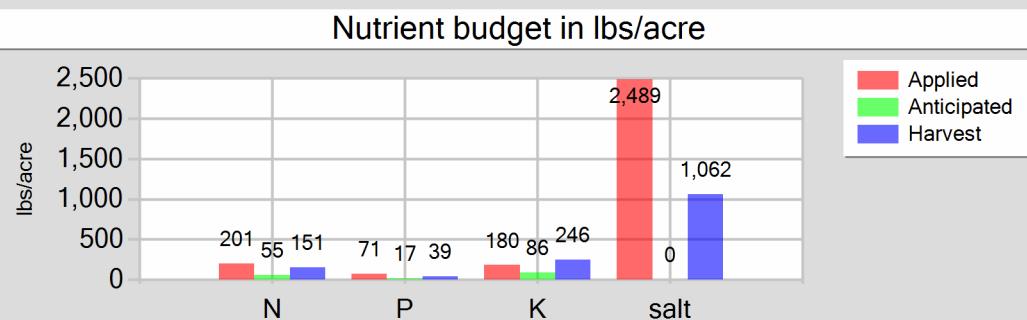
Reporting period 01/01/2023 to 12/31/2023.

2-7W - 06/26/2023: Sorghum

Field name: 2-7W

Crop: Sorghum

Plant date: 06/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	194.29	70.99	180.34	1,590.06
Fresh water	0.00	0.00	0.00	899.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	201.29	70.99	180.34	2,489.45
Anticipated crop nutrient removal	55.20	16.80	86.40	0.00
Actual crop nutrient removal	151.21	38.68	246.15	1,061.69
Nutrient balance	50.08	32.31	-65.81	1,427.76
Applied to removed ratio	1.33	1.84	0.73	2.34

**Fresh water applied**

18,224,439.00 gallons  
671.14 acre-inches  
22.37 inches/acre

**Process wastewater applied**

1,069,606.00 gallons  
39.39 acre-inches  
1.31 inches/acre

**Total harvests for the crop**

1 harvests

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

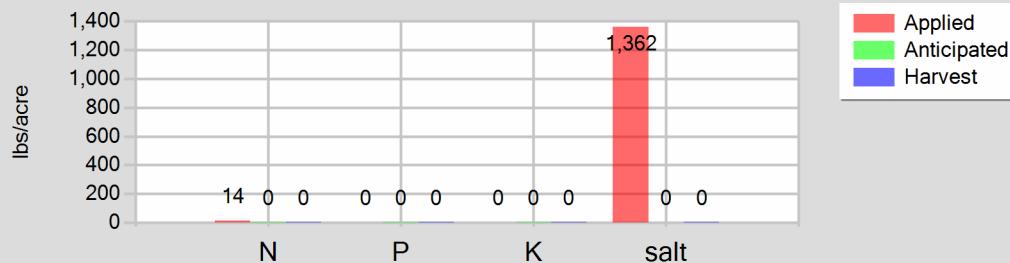
2-8 - 01/02/2021: Pistachios

Field name: 2-8

Crop: Pistachios

Plant date: 01/02/2021

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.24	0.00	0.00	1,361.98
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.24	0.00	0.00	1,361.98
Anticipated crop nutrient removal	0.10	0.01	0.01	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	14.24	0.00	0.00	1,361.98
Applied to removed ratio	4,271,379,700.21	0.00	0.00	40,900,170.15

**Fresh water applied**

43,175,259.00 *gallons*  
1,590.00 *acre-inches*  
26.50 *inches/acre*

**Process wastewater applied**

0.00 *gallons*  
0.00 *acre-inches*  
0.00 *inches/acre*

**Total harvests for the crop**

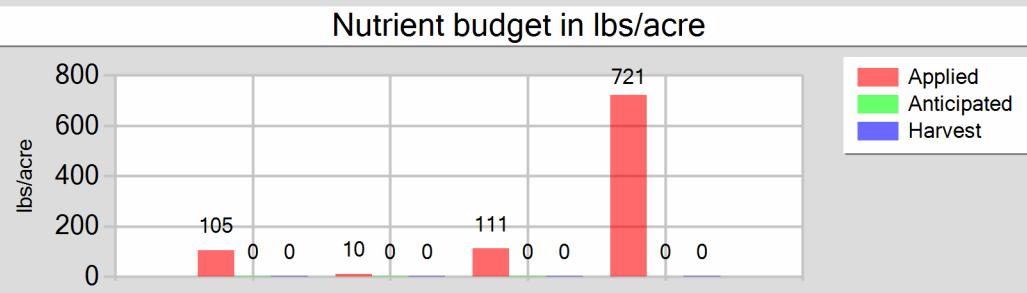
1 *harvests*

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

2-9 - 01/02/2021: Pistachios

Field name: 2-9      Crop: Pistachios      Plant date: 01/02/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	91.46	10.43	111.33	677.49
Fresh water	0.00	0.00	0.00	43.41
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	105.46	10.43	111.33	720.90
Anticipated crop nutrient removal	0.10	0.01	0.01	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	105.46	10.43	111.33	720.90
Applied to removed ratio	46,402,858,736.50	4,590,666,848.46	48,986,986,066.90	31,751,470.62

**Fresh water applied**  
 28,577,133.00 gallons  
 1,052.40 acre-inches  
 11.96 inches/acre

**Process wastewater applied**  
 1,190,714.00 gallons  
 43.85 acre-inches  
 0.50 inches/acre

**Total harvests for the crop**  
 1 harvests

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

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

**NUTRIENT ANALYSES****A. MANURE ANALYSES**

22J1670

Sample and source description: 22J1670

Sample date: 10/27/2022 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 76.2 %

	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	6,600.00	1,300.00	3,300.00	4,500.00	1,800.00	1,900.00	1,200.00	2,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23F0877

Sample and source description: 23F0877

Sample date: 06/07/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 54.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,400.00	1,800.00	3,500.00	8,100.00	4,100.00	1,600.00	2,300.00	1,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23I1785

Sample and source description: 23I1785

Sample date: 09/27/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 59.1 %

	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	10,800.00	2,500.00	3,600.00	8,900.00	4,300.00	1,500.00	2,100.00	1,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

**B. PROCESS WASTEWATER ANALYSES**

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

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

**22J1665**

Sample and source description: 22J1665

Sample date: 10/26/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	449.00	396.00	0.00	1.90	74.60	945.00	212.00	183.00	676.00	4,150.00	0.00	12.60	754.00		4,950
<b>DL</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

**23A0680**

Sample and source description: 23A0680

Sample date: 01/25/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	341.00	278.00	0.00	1.00	77.80	50.70									3,530
<b>DL</b>	0.01	0.01	0.01	0.01	0.01	0.01									10

**23F0878**

Sample and source description: 23F0878

Sample date: 06/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	809.00	448.00	0.00	1.00	92.40	986.00									6,000
<b>DL</b>	0.01	0.01	0.01	0.01	0.01	0.01									10

**23I1790**

Sample and source description: 23I1790

Sample date: 09/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	438.00	335.00	0.00	0.90	438.00	88.10	173.00	132.00	469.00	2,900.00	0.00	35.80	607.00		4,450
<b>DL</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

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

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

23K0061

Sample and source description: 23K0061

Sample date: 11/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	574.00	372.00	0.00	1.20	90.30	635.00	207.00	147.00	518.00	3,310.00	0.00	4.60	410.00		5,520
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

**C. FRESH WATER ANALYSES**

2-14

23L0785

Sample description: 23L0785

Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.20			132.00	18.40	296.00	327.00	0.00	518.00	89.40	1,800.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

Canal

23J0306

Sample description: 23J0306

Sample date: 10/03/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										26.70	
DL	0.01										10.00	

Dairy Well North

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

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

Dairy Well North

23L0785

Sample description: 23L0785

Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00			16.60	0.60	252.00	232.00	0.00	98.30	169.00	1,250.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

Dairy Well South

23L0785

Sample description: 23L0785

Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00			33.80	3.70	209.00	362.00	0.00	77.00	82.40	1,110.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

H3

23L0784

Sample description: 23L0784

Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										1,540.00	
DL	0.01										10.00	

Madera Trees

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

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

**Madera Trees**

23L0784

Sample description: 23L0784Sample date: 12/12/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00										2,010.00	
DL	0.01										10.00	

**Madera Well**

23L0784

Sample description: 23L0784Sample date: 12/12/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00										1,920.00	
DL	0.01										10.00	

**D. SOIL ANALYSES**

No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

2-1 - 11/05/2022: Wheat, silage, boot stage

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

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

2-1 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 50.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,100.00	3,000.00	12,800.00		10.30
<b>DL</b>	0.01	0.01	0.01		0.01

2-1 - 06/24/2023: Sorghum

23K0064

Sample and source description: 23K0064

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	5,000.00	1,700.00	8,600.00		13.30
<b>DL</b>	0.01	0.01	0.01		0.01

2-10 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 41.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	8,900.00	2,700.00	12,100.00		7.20
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

2-11 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 40.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,800.00	2,700.00	12,000.00		7.00
<b>DL</b>	0.01	0.01	0.01		0.01

2-11 - 06/27/2023: Sorghum

23K0064

Sample and source description: 23K0064

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,500.00	1,100.00	6,900.00		9.60
<b>DL</b>	0.01	0.01	0.01		0.01

2-12N - 01/01/2023: Alfalfa, hay

2-401-946

Sample and source description: 2-401-946

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

Moisture: 6.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	33,100.00	2,600.00	25,400.00		9.62
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

2-12S - 01/01/2023: Alfalfa, hay

2-399-664

Sample and source description: 2-399-664

Sample date: 07/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 7.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	35,600.00	2,800.00	24,700.00		8.62
<b>DL</b>	0.01	0.01	0.01		0.01

2-13 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,100.00	1,700.00	7,100.00		8.00
<b>DL</b>	0.01	0.01	0.01		0.01

2-14 - 01/02/2021: Pistachios

00000

Sample and source description: 00000

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 0.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	0.01	0.01	0.01		0.01
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

2-2 - 01/10/2021: Pistachios

00000

Sample and source description: 00000

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 0.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	0.01	0.01	0.01		0.01
<b>DL</b>	0.01	0.01	0.01		0.01

2-2A - 01/10/2021: Pistachios

00000

Sample and source description: 00000

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 0.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	0.01	0.01	0.01		0.01
<b>DL</b>	0.01	0.01	0.01		0.01

2-3 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 49.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	7,000.00	2,200.00	8,800.00		7.90
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

2-4 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 47.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	8,000.00	3,100.00	13,500.00		10.90
<b>DL</b>	0.01	0.01	0.01		0.01

2-4 - 06/26/2023: Sorghum

23K0064

Sample and source description: 23K0064

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,200.00	1,700.00	7,000.00		10.80
<b>DL</b>	0.01	0.01	0.01		0.01

2-5 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 54.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	5,400.00	2,100.00	8,800.00		7.10
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

2-5 - 07/01/2023: Sorghum

23K0064

Sample and source description: 23K0064

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 74.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,600.00	1,300.00	6,400.00		9.90
<b>DL</b>	0.01	0.01	0.01		0.01

2-6 - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 58.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,800.00	2,100.00	7,800.00		9.60
<b>DL</b>	0.01	0.01	0.01		0.01

2-6 - 06/28/2023: Sorghum

23K0064

Sample and source description: 23K0064

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 26.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,600.00	1,100.00	6,300.00		8.50
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

2-7E - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 55.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,300.00	2,100.00	7,300.00		6.00
<b>DL</b>	0.01	0.01	0.01		0.01

2-7E - 06/23/2023: Sorghum

23K0064

Sample and source description: 23K0064

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 73.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,700.00	1,100.00	8,600.00		11.40
<b>DL</b>	0.01	0.01	0.01		0.01

2-7W - 11/05/2022: Wheat, silage, boot stage

23F0884

Sample and source description: 23F0884

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 57.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,900.00	1,800.00	6,000.00		5.20
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

2-7W - 06/26/2023: Sorghum

23K0064

Sample and source description: 23K0064

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,300.00	1,100.00	7,000.00		10.20
<b>DL</b>	0.01	0.01	0.01		0.01

2-8 - 01/02/2021: Pistachios

00000

Sample and source description: 00000

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 0.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	0.01	0.01	0.01		0.01
<b>DL</b>	0.01	0.01	0.01		0.01

2-9 - 01/02/2021: Pistachios

00000

Sample and source description: 00000

Sample date: 12/31/2023 Source of analysis: Other/estimated Method of reporting: As-is

Moisture: 0.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	0.01	0.01	0.01		0.01
<b>DL</b>	0.01	0.01	0.01		0.01

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

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

**F. SUBSURFACE (TILE) DRAINAGE ANALYSES**

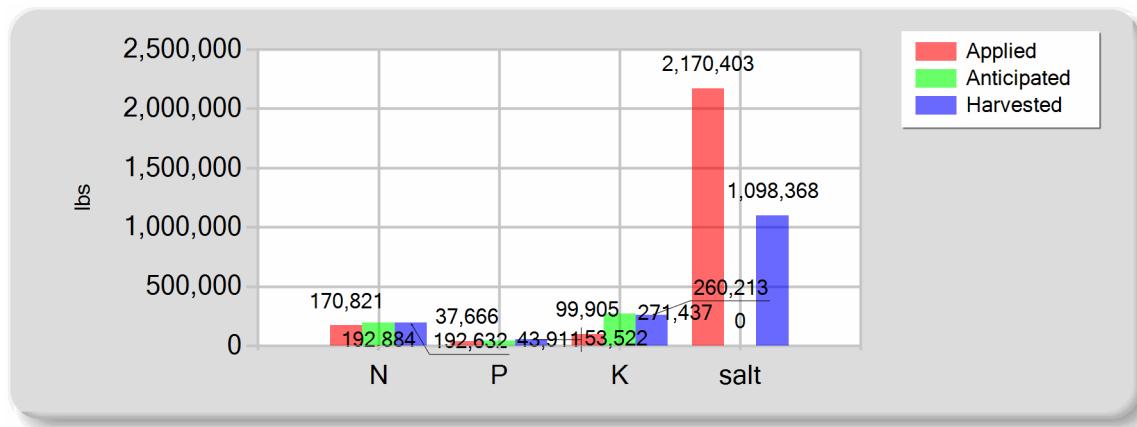
*No subsurface (tile) drainage analyses entered.*

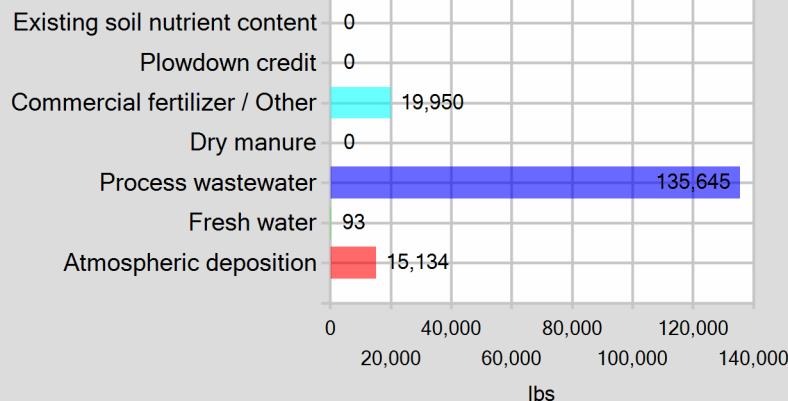
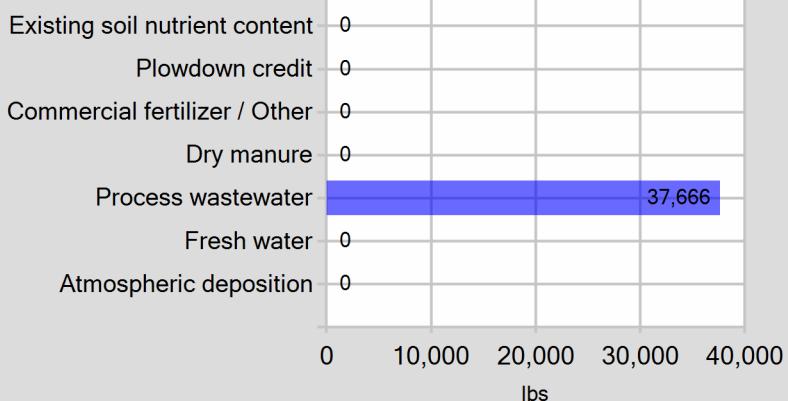
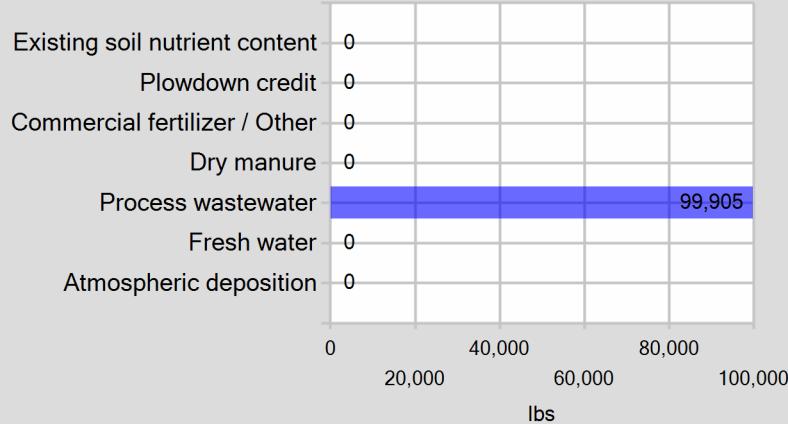
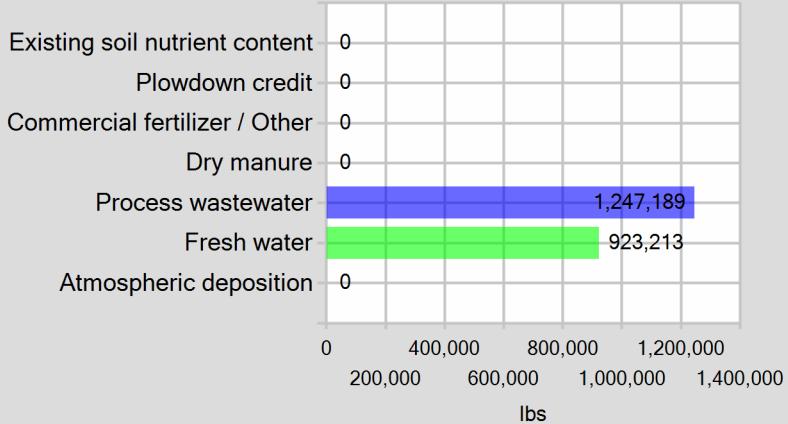
**Annual Report - General Order No. R5-2007-0035**

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	19,950.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	135,644.81	37,665.63	99,905.05	1,247,189.42
Fresh water	92.62	0.00	0.00	923,213.50
Atmospheric deposition	15,134.00	0.00	0.00	0.00
Total nutrients applied	170,821.43	37,665.63	99,905.05	2,170,402.91
Anticipated crop nutrient removal	192,884.30	43,910.79	271,436.79	0.00
Actual crop nutrient removal	192,631.72	53,521.81	260,213.13	1,098,368.47
Nutrient balance	-21,810.29	-15,856.18	-160,308.08	1,072,034.44
Applied to removed ratio	0.89	0.70	0.38	1.98

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

**C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE****Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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

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

**EXCEPTION REPORTING**

**A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES**

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

*No manure or process wastewater discharges occurred during the reporting period.*

**B. STORM WATER DISCHARGES**

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility's Nutrient Management Plan.

*No stormwater discharges occurred during the reporting period.*

**C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES**

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

*No land application area to surface water discharges occurred during the reporting period.*

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

Was the facility's NMP updated in the reporting period? Yes \_\_\_\_\_

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes \_\_\_\_\_

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes \_\_\_\_\_

**B. EXPORT AGREEMENT STATEMENT**

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No \_\_\_\_\_

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

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

**ADDITIONAL NOTES**

**A. NOTES**

Pistachios are too young to harvest.

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

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

**CERTIFICATION**

**A. OWNER AND/OR OPERATOR CERTIFICATION**

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

---

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

---

Ed Anker

---

SAME AS OWNER

---

PRINT OR TYPE NAME

---

PRINT OR TYPE NAME

---

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.

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

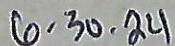
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



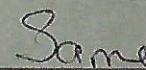
SIGNATURE OF OWNER OF FACILITY

Ed Anker

PRINT OR TYPE NAME



DATE



SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME



DATE

# Report of Dairy Well Water Analysis

Shady Acres Dairy #2  
PO Box 153  
Helm CA 93627  
00-0017538 08

Lab No.: 23L0785  
Sampled By: Marty  
Requested By: Marty Verhoeven  
Submitted Date: 12/13/23  
Reported Date: 12/27/23  
Project:  
Crop ID:

E-mail: martyverhoeven@gmail.com

Copy To:

	Date Sampled	Time Sampled	EC <small>μmhos/cm</small>	EC <small>mmhos/cm</small>	NO <sub>3</sub> -N <small>mg/L</small>	NH <sub>4</sub> -N <small>mg/L</small>	Field NH <sub>4</sub> -N <small>mg/L</small>	Total NH <sub>4</sub> -N <small>mg/L</small>	TDS <small>mg/L</small>	CO <sub>3</sub> as CaCO <sub>3</sub> <small>mg/L</small>		HCO <sub>3</sub> as CaCO <sub>3</sub> <small>mg/L</small>		Cl <small>mg/L</small>	SO <sub>4</sub> <small>mg/L</small>	Ca <small>mg/L</small>	Mg <small>mg/L</small>	Na <small>mg/L</small>	pH at 25°C
										Field	Total	CaCO <sub>3</sub>	CaCO <sub>3</sub>						
1	2-14	12/12/23	14:42	1800	1.80	0.2	*		1280	ND	327	89.4	518	132	18.4	296	7.8		
2	Dairy Well South	12/12/23	14:50	1110	1.11	ND	*		720	ND	362	82.4	77.0	33.8	3.7	209	8.0		
3	Dairy Well North	12/12/23	14:40	1250	1.25	ND	*		680	ND	232	169	98.3	16.6	0.6	252	8.3		

\* = Field NH<sub>4</sub>-N not Taken.

ND = None Detected

Approved By:

*Scott M. Friedland*

Laboratory Director\Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



12/13/23 07:00

23L0785

JG

**WATER WORK REQUEST**

Bill To:	Acct No: 17538	Cons: 08
----------	----------------	----------

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

Client **Shady Acres Dairy #2**  
 Address **PO Box 153**  
 City, State, Zip **Helm, CA 93627**  
 Email: **0**

Copy to: **martyverhoeven@gmail.com**Requested by/Cell: **Marty Verhoeven/ 559-410-2420**Facility: **0**Date sampled **12/12/23**Sampled by **Marty**
 QA/QC Document     Copy of Chain     RWQCB
**DESCRIPTION OF SAMPLES**

1. **Z-14** Sampled From: \_\_\_\_\_
2. **Dairy Well South** Sampled From: \_\_\_\_\_
3. **Dairy Well North** Sampled From: \_\_\_\_\_
4. \_\_\_\_\_ Sampled From: \_\_\_\_\_
5. \_\_\_\_\_ Sampled From: \_\_\_\_\_
6. \_\_\_\_\_ Sampled From: \_\_\_\_\_
7. \_\_\_\_\_ Sampled From: \_\_\_\_\_
8. \_\_\_\_\_ Sampled From: \_\_\_\_\_
9. \_\_\_\_\_ Sampled From: \_\_\_\_\_
10. \_\_\_\_\_ Sampled From: \_\_\_\_\_

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>Marty</i>	DLI	12-12-23	12/12/23 4:00
Second	<i>ET</i>	DLI	12/12/23 4:00	12/12/23 4:00
Third				
Fourth	<i>AC</i>	DLI	12/12/23 4:00	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated 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 attorney's fees of DellaValle Laboratory.

**Invoicing Information:****Invoicing**

Sampling Hrs \_\_\_\_\_ Miles \_\_\_\_\_ Consulting \_\_\_\_\_

**Shipping**\$ \_\_\_\_\_ In  
\$ \_\_\_\_\_ Out

Amt Paid \_\_\_\_\_ Rec By \_\_\_\_\_ Check No. \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

last update 2020

**DELLAVALLE LABORATORY, INC.**

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 800 228-9896 • Fax 559 268-8174

No. of Samples <b>3</b>	No. Bottles <b>6</b>
<b>Water Type:</b>	<input type="checkbox"/> Drinking <input type="checkbox"/> Wastewater
<input type="checkbox"/> Ag Water <input type="checkbox"/> Ground Water	<input type="checkbox"/> Mon. Well
<input type="checkbox"/> Supply Water <input type="checkbox"/> Other	

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

- DWW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N Field Test)  
 (1) 1 L plastic, unpreserved (white)
- DWW2: (DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)  
 (1) 1 L plastic, unpreserved (white)
- DCW1: (EC, NO<sub>3</sub>-N, TDS)  
 (1) 1 L plastic, unpreserved (white)
- DPW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK )  
 (1) 1 L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl)  
 (1) 1 L plastic, unpreserved (white)

 Other

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
12/12	2:42	9.5	13.1
	2:50	8.5	10.1
	2:40	13.8	13.6

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 03/06/2024

Location: Laboratory

IR Thermometer SN: 221511276

Correction Factor: 0°C

Calibration Due: 03/06/2024

Location: Hanford

HF /3.1

10.1

13.6

13.1

10.1

**Report of Dairy Well Water Analysis**

Shady Acres Dairy #2  
PO Box 153  
Helm CA 93627  
00-0017538 08

Lab No.: 23L0784  
Sampled By: Marty  
Requested By: Marty Verhoeven  
Submitted Date: 12/13/23  
Reported Date: 12/21/23  
Project:  
Crop ID:

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

	Date Sampled	Time Sampled	EC μmhos/cm	EC mmhos/cm	NO <sub>3</sub> -N mg/L	Field NH <sub>4</sub> -N mg/L	Total NH <sub>4</sub> -N mg/L	pH at 25°C
								unit
1	H3	12/12/23	14:35	1540	1.54	ND	*	8.0
2	Madera Trees	12/12/23	14:46	2010	2.01	ND	*	7.8
3	Madera Well	12/12/23	14:45	1920	1.92	ND	*	7.8

\* = Field NH<sub>4</sub>-N not Taken.

ND = None Detected

Approved By:



Laboratory Director\Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



12/13/23 07:00

23L0784

JG

## WATER WORK REQUEST

Bill To:	Acct No: 17538	Cons: 08
----------	----------------	----------

Purchase Order No \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client Shady Acres Dairy #2  
 Address PO Box 153  
 City, State, Zip Helm, CA 93627  
 Email: 0

Copy to: martyverhoeven@gmail.comRequested by/Cell: Marty Verhoeven/ 559-410-2420Facility: 0Date sampled 12/12/23Sampled by Marty
 QA/QC Document     Copy of Chain     RWQCB

## DESCRIPTION OF SAMPLES

1. H3 Sampled From \_\_\_\_\_
2. Madera Trees Sampled From \_\_\_\_\_
3. Madera Well Sampled From \_\_\_\_\_
4. \_\_\_\_\_ Sampled From \_\_\_\_\_
5. \_\_\_\_\_ Sampled From \_\_\_\_\_
6. \_\_\_\_\_ Sampled From \_\_\_\_\_
7. \_\_\_\_\_ Sampled From \_\_\_\_\_
8. \_\_\_\_\_ Sampled From \_\_\_\_\_
9. \_\_\_\_\_ Sampled From \_\_\_\_\_
10. \_\_\_\_\_ Sampled From \_\_\_\_\_

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Marty</u>	<u>DCI</u>	<u>12/12/23</u>	<u>12/12/23 4:00</u>
Second	<u>CTT</u>	<u>DCI</u>	<u>12/12/23 4:00</u>	<u>12/12/23 4:00</u>
Third				
Fourth	<u>CTT</u>	<u>DCI</u>	<u>12/13 04:00</u>	

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## Invoicing Information:

## Invoicing

Sampling Hrs	Miles	Consulting	Shipping
\$			In
\$			Out
Amt Paid	Rec By	Check No.	Date

Signature \_\_\_\_\_

Sample received in cooler with ice?

 Yes     No

ctt update 2020

## Report of Dairy Canal Water Analysis

Shady Acres Dairy #2  
PO Box 153  
Helm CA 93627  
00-0017538 08

Lab No.: 23J0306  
Sampled By: Marty Verhoeven  
Requested By: Marty Verhoeven  
Submitted Date: 10/04/23  
Reported Date: 10/10/23  
Project:  
Crop ID:

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

	Date Sampled	Time Sampled	EC <small>µmhos/cm</small>	EC <small>mmhos/cm</small>	NO <sub>3</sub> -N <small>mg/L</small>	TDS <small>mg/L</small>
1	Canal (Canal)	10/3/23	11:30	26.7	0.03	ND

ND = None Detected

Approved By: Marty Verhoeven  
Laboratory Director\Technical Manager  
ELAP Certification #1595  
A2LA Certification #6440.02



10/04/23 07:19

23J0306

**WATER WORK REQUEST**

Bill To:  Acct No.  Cons.

Purchase Order No. \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client **Shady Acres Dairy #2**  
 Address PO Box 153  
 City, State, Zip Helm, CA 93627  
 Email: \_\_\_\_\_

Copy to:

Requested by/Cell:

Facility: \_\_\_\_\_

Date sampled

Sampled by

QA/QC Document  Copy of Chain  RWQCB

**DESCRIPTION OF SAMPLES**

1.	<input type="text" value="Count"/>	Sampled From: <input type="text" value="Count"/>	Date Sampled <input type="text" value="10/3/23"/>	Time Sampled <input type="text" value="12:30"/>	Field NH4-N (mg/L) <input type="text" value="19.2"/>	Received Temp °C <input type="text" value="0.8"/>
2.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.	<input type="text"/>	Sampled From: <input type="text"/>	IR Thermometer SN: 200560723 Correction Factor: 0°C Calibration Due: 12/22/2023 Location: Laboratory	<input type="text"/>	IR Thermometer SN: 221511276 Correction Factor: 0°C Calibration Due: 12/22/2023 Location: Hanford	<input type="text"/>
10.	<input type="text"/>	Sampled From: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<input type="text" value="marty"/>	<input type="text" value="DLI"/>	<input type="text" value="10/2/23 12:00"/>	<input type="text" value="10/3/23 12:30 pm"/>
Second	<input type="text" value="marty"/>	<input type="text" value="DLI"/>	<input type="text" value="10/3/23 12:56 pm"/>	<input type="text"/>
Third	<input type="text" value="MM"/>	<input type="text" value="DLI"/>	<input type="text" value="10/4 7:19"/>	<input type="text"/>
Fourth	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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Invoicing Information:  
**Price List 2022-2023 MG 10/03/23**

Shipping			
Sampling Hrs	Miles	Consulting	\$ <input type="text"/> In
			\$ <input type="text"/> Out
Amt Paid	Rec By	Check No.	Date <input type="text"/>

Signature   
 Sample received in cooler with ice?  
 [ ] Yes [ ] No

etempdate 2020