

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:** Garcia & Sons Dairy

Physical address of dairy:

15315 17th Avenue

Number and Street

Lemoore

City

Kings

County

93245

Zip Code

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

Date facility was originally placed in operation: 08/01/1954Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X024-X150-X078-XXXX**B. OPERATORS**

Garcia, Melvin

Operator name: Garcia, Melvin

Telephone no.:

(559) 977-6014

Landline

Cellular

15315 17th Avenue

Mailing Address Number and Street

Lemoore

City

CA

State

93245

Zip Code

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

Garcia, Melvin

Legal owner name: Garcia, Melvin

Telephone no.:

(559) 977-6014

Landline

Cellular

15315 17th Avenue

Mailing Address Number and Street

Lemoore

City

CA

State

93245

Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	40	0	70	40	0	0
Number under roof	0	0	0	0	0	0
Maximum number	46	0	78	50	0	0
Average number	40	0	70	40	0	0
Avg live weight (lbs)	1,400	0	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 2,166.72 tons per reporting period

Total nitrogen from manure: 24,161.10 lbs per reporting period

After ammonia losses (30% loss applied): 16,912.77 lbs per reporting period

Total phosphorus from manure: 4,094.14 lbs per reporting period

Total potassium from manure: 7,791.77 lbs per reporting period

Total salt from manure: 18,834.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 6,556,520 gallons

Total nitrogen generated: 12,270.39 lbs

Total phosphorus generated: 1,172.74 lbs

Total potassium generated: 10,713.62 lbs

Total salt generated: 158,100.10 lbs

	6,556,520 gallons applied
+	0 gallons exported
-	0 gallons imported
=	6,556,520 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Ag 14	Ground water
Ag 2	Ground water
Ag 3	Ground water
Ag 5	Ground water
Ag 6	Ground water

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Source Description	Type
Ag 7	Ground water
Dom 1	Ground water
Dom 4	Ground water
Dom 5	Ground water
Lemoore I.D.	Surface 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
1	12	12	1	both	X024-X150-X078-XXXX
12	20	20	1	both	X024-X150-X008-XXXX
2	4	4	1	both	X024-X150-X078-XXXX
4	27	27	1	both	X024-X150-X005-XXXX
5	20	20	2	both	X024-X150-X064-XXXX X024-X150-X075-XXXX X024-X150-X076-XXXX
8	17	17	1	none	X024-X150-X008-XXXX
Totals for areas that were used for application	83	83	6		
Totals for areas that were not used for application	17	17	1		
Land application area totals	100	100	7		

B. CROPS AND HARVESTS

1

Field name: 1

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

Crop: Wheat, silage, soft dough

Acres planted: 12 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	225.00 ton	Dry-weight		57.4	16,100.00	3,700.00	14,900.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.75	257.20	59.11	238.03	1,709.33

12

Field name: 12

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12

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

Crop: Wheat, silage, soft dough Acres planted: 20 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	390.00 ton	Dry-weight		61.3	12,600.00	3,000.00	11,200.00		7.43

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	19.50	190.17	45.28	169.04	1,121.41

2

Field name: 2

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

Crop: Wheat, silage, soft dough Acres planted: 4 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	80.00 ton	Dry-weight		58.1	15,200.00	3,200.00	11,500.00		9.05

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	20.00	254.75	53.63	192.74	1,516.78

4

Field name: 4

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4

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

Crop: Wheat, silage, soft dough

Acres planted: 27 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	548.00 ton	Dry-weight		61.7	13,600.00	3,300.00	12,100.00		8.34

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	20.30	211.44	51.30	188.12	1,296.62

5

Field name: 5

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

Crop: Wheat, silage, soft dough

Acres planted: 20 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	385.00 ton	Dry-weight		59.8	14,000.00	2,900.00	11,300.00		7.02

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	19.25	216.68	44.88	174.89	1,086.49

05/31/2023: Cotton, lint

Crop: Cotton, lint

Acres planted: 20 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/03/2023	2.25 ton	Dry-weight		8.4	24,200.00	5,100.00	9,000.00		4.79

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	105.00	17.10	34.80	300.00
Total actual harvest content	0.11	4.99	1.05	1.85	9.87

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8

Field name: 8

11/25/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 17 Plant date: 11/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2022	296.00 <i>ton</i>	Dry-weight		63.7	14,200.00	3,000.00	15,400.00		11.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	17.41	179.50	37.92	194.67	1,504.27

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/20/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/10/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	105.74	33.25	178.89	2,161.25	60.00 <i>ton</i>
Application event totals		105.74	33.25	178.89	2,161.25	
10/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	52.32	5.86	47.32	1,229.59	479,170.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	38.77	1,858,511.00 <i>gal</i>
Application event totals		52.32	5.86	47.32	1,268.37	
03/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.47	6.57	62.60	704.99	405,505.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	40.70	1,951,095.00 <i>gal</i>
Application event totals		72.47	6.57	62.60	745.69	
04/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	58.23	5.28	50.30	566.48	325,836.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	21.25	1,018,511.00 <i>gal</i>
Application event totals		58.23	5.28	50.30	587.73	

12 - 11/15/2022: Wheat, silage, soft dough

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12 - 11/15/2022: Wheat, silage, soft dough

Field name: 12

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	43.06	3,439,748.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	43.06	
10/23/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	105.74	33.25	178.89	2,161.25	100.00 <i>ton</i>
Application event totals		105.74	33.25	178.89	2,161.25	
03/07/2023	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	64.06	5.81	55.33	623.13	597,366.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	32.13	2,566,830.00 <i>gal</i>
Application event totals		64.06	5.81	55.33	655.26	
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
Lagoon	Process wastewater	46.59	4.22	40.24	453.18	434,448.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	32.04	2,559,748.00 <i>gal</i>
Application event totals		46.59	4.22	40.24	485.23	

2 - 11/22/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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2 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	44.47	4.99	40.22	1,045.25	135,778.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	38.75	619,088.00 <i>gal</i>
Application event totals		44.47	4.99	40.22	1,084.00	
10/23/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	105.74	33.25	178.89	2,433.90	20.00 <i>ton</i>
Application event totals		105.74	33.25	178.89	2,433.90	
03/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.41	6.84	65.14	733.53	140,640.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	39.17	625,782.00 <i>gal</i>
Application event totals		75.41	6.84	65.14	772.69	
04/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.16	5.36	51.10	575.46	110,334.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	30.37	485,170.00 <i>gal</i>
Application event totals		59.16	5.36	51.10	605.83	

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

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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4 - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following		
10/23/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation		
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure		Corral solids	105.74	33.25	178.89	2,433.90	135.00 <i>ton</i>
Application event totals			105.74	33.25	178.89	2,433.90	
10/28/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation		
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	42.69	4.79	38.61	1,003.35	879,757.00 <i>gal</i>
Lemoore I.D.		Surface water	0.00	0.00	0.00	36.71	3,958,907.00 <i>gal</i>
Application event totals			42.69	4.79	38.61	1,040.06	
03/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation		
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	64.58	5.86	55.79	628.25	813,070.00 <i>gal</i>
Lemoore I.D.		Surface water	0.00	0.00	0.00	38.75	4,178,847.00 <i>gal</i>
Application event totals			64.58	5.86	55.79	666.99	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation		
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	47.91	4.34	41.38	466.03	603,131.00 <i>gal</i>
Lemoore I.D.		Surface water	0.00	0.00	0.00	38.07	4,105,534.00 <i>gal</i>
Application event totals			47.91	4.34	41.38	504.10	

5 - 11/22/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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5 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/25/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	42.69	4.79	38.61	1,003.35	651,672.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	36.69	2,930,994.00 <i>gal</i>
Application event totals		42.69	4.79	38.61	1,040.04	
10/23/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	105.74	33.25	178.89	2,433.90	100.00 <i>ton</i>
Application event totals		105.74	33.25	178.89	2,433.90	
03/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	58.48	5.30	50.52	568.88	545,365.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	31.82	2,542,382.00 <i>gal</i>
Application event totals		58.48	5.30	50.52	600.71	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	46.59	4.22	40.24	453.18	434,448.00 <i>gal</i>
Lemoore I.D.	Surface water	0.00	0.00	0.00	34.56	2,760,852.00 <i>gal</i>
Application event totals		46.59	4.22	40.24	487.74	

5 - 05/31/2023: Cotton, lint

Field name: 5

Crop: Cotton, lint

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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5 - 05/31/2023: Cotton, lint

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	37.39	2,986,830.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.39	
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
Lemoore I.D.	Surface water	0.00	0.00	0.00	44.43	3,549,748.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	44.43	
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
Lemoore I.D.	Surface water	0.00	0.00	0.00	44.54	3,558,360.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	44.54	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	42.15	3,366,972.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	42.15	
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
Lemoore I.D.	Surface water	0.00	0.00	0.00	38.07	3,041,136.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.07	

8 - 11/25/2022: Alfalfa, hay

Field name: 8

Crop: Alfalfa, hay

Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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8 - 11/25/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	37.67	2,558,005.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.67	
05/15/2023	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
Lemoore I.D.	Surface water	0.00	0.00	0.00	41.19	2,797,289.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	41.19	
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	35.62	2,418,806.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	35.62	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	36.03	2,446,485.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.03	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	37.39	2,538,805.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.39	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lemoore I.D.	Surface water	0.00	0.00	0.00	42.10	2,858,805.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	42.10	

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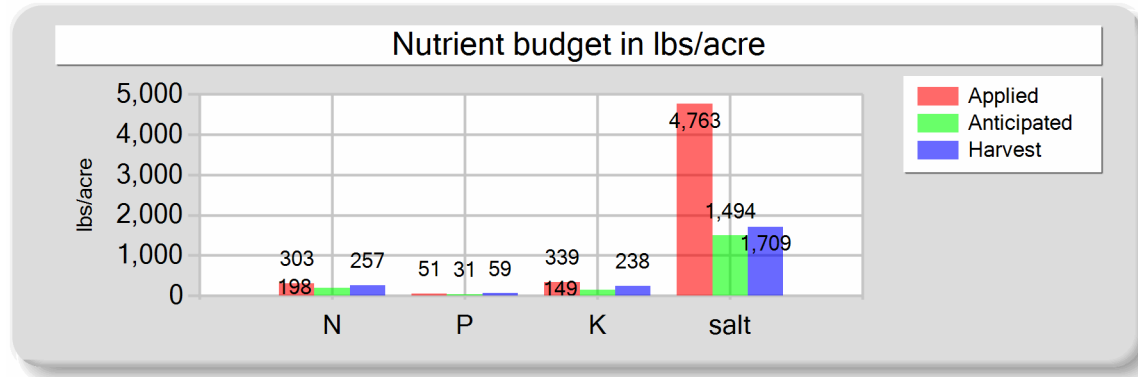
B. NUTRIENT BUDGET

1 - 11/20/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022



	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	4,828,117.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	177.80 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.82 inches/acre
Dry manure	105.74	33.25	178.89	2,161.25	
Process wastewater	183.02	17.71	160.22	2,501.06	
Fresh water	0.00	0.00	0.00	100.73	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	302.76	50.96	339.11	4,763.04	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	257.20	59.11	238.03	1,709.33	
Nutrient balance	45.56	-8.14	101.08	3,053.71	
Applied to removed ratio	1.18	0.86	1.42	2.79	
					Process wastewater applied
					1,210,511.00 gallons
					44.58 acre-inches
					3.71 inches/acre
					Total harvests for the crop
					1 harvests

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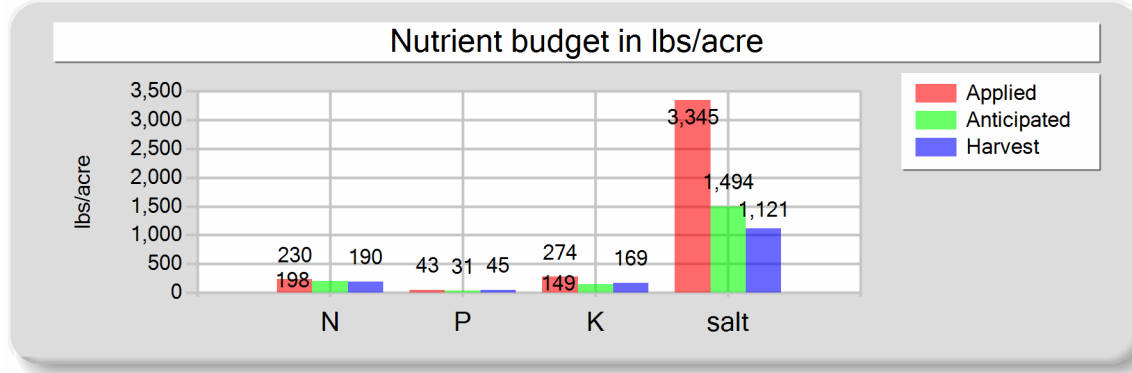
Reporting period 01/01/2023 to 12/31/2023.

12 - 11/15/2022: Wheat, silage, soft dough

Field name: 12

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	105.74	33.25	178.89	2,161.25
Process wastewater	110.64	10.03	95.58	1,076.31
Fresh water	0.00	0.00	0.00	107.23
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	230.38	43.28	274.46	3,344.79
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	190.17	45.28	169.04	1,121.41
Nutrient balance	40.21	-2.00	105.42	2,223.38
Applied to removed ratio	1.21	0.96	1.62	2.98

Fresh water applied
8,566,326.00 <i>gallons</i>
315.47 <i>acre-inches</i>
15.77 <i>inches/acre</i>

Process wastewater applied
1,031,814.00 <i>gallons</i>
38.00 <i>acre-inches</i>
1.90 <i>inches/acre</i>

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

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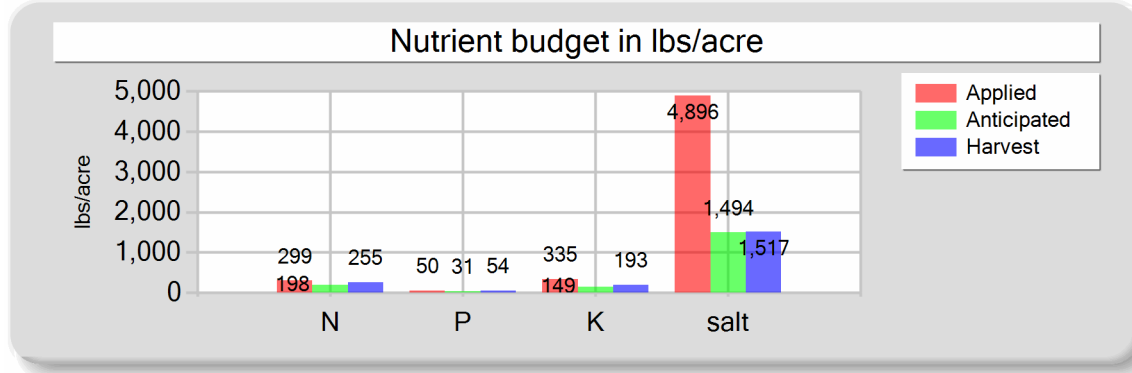
Reporting period 01/01/2023 to 12/31/2023.

2 - 11/22/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	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	105.74	33.25	178.89	2,433.90
Process wastewater	179.04	17.19	156.46	2,354.24
Fresh water	0.00	0.00	0.00	108.28
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	298.77	50.44	335.35	4,896.42
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	254.75	53.63	192.74	1,516.78
Nutrient balance	44.02	-3.20	142.61	3,379.64
Applied to removed ratio	1.17	0.94	1.74	3.23

Fresh water applied
1,730,040.00 <i>gallons</i>
63.71 <i>acre-inches</i>
15.93 <i>inches/acre</i>

Process wastewater applied
386,752.00 <i>gallons</i>
14.24 <i>acre-inches</i>
3.56 <i>inches/acre</i>

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

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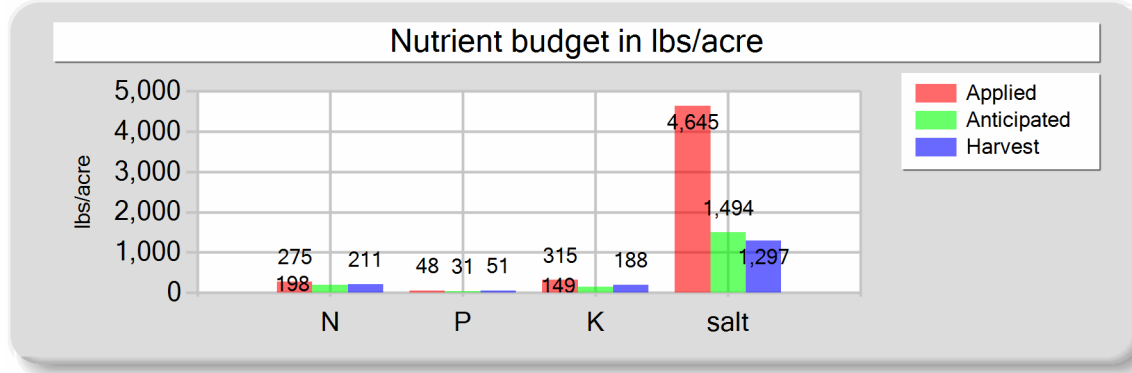
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	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	105.74	33.25	178.89	2,433.90
Process wastewater	155.18	14.98	135.78	2,097.63
Fresh water	0.00	0.00	0.00	113.52
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	274.92	48.23	314.67	4,645.05
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	211.44	51.30	188.12	1,296.62
Nutrient balance	63.48	-3.07	126.55	3,348.43
Applied to removed ratio	1.30	0.94	1.67	3.58

Fresh water applied
12,243,288.00 <i>gallons</i>
450.88 <i>acre-inches</i>
16.70 <i>inches/acre</i>

Process wastewater applied
2,295,958.00 <i>gallons</i>
84.55 <i>acre-inches</i>
3.13 <i>inches/acre</i>

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

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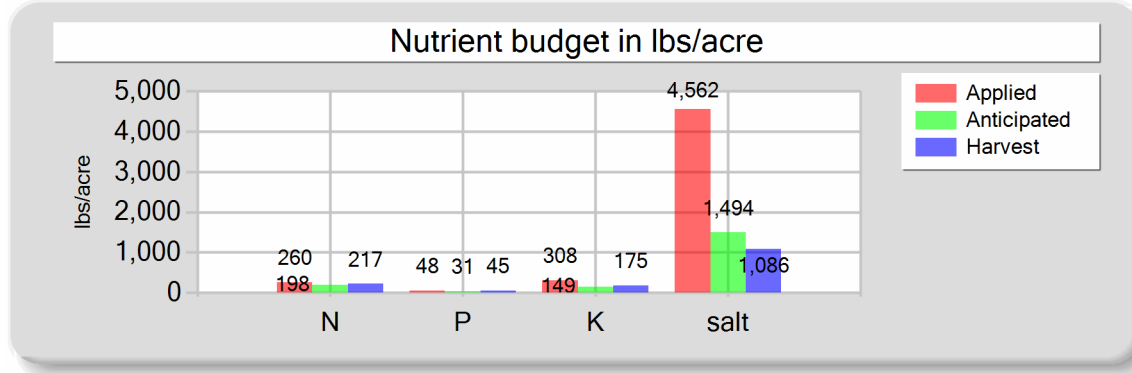
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/22/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	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	105.74	33.25	178.89	2,433.90
Process wastewater	147.76	14.31	129.37	2,025.42
Fresh water	0.00	0.00	0.00	103.07
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	260.49	47.56	308.26	4,562.39
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	216.68	44.88	174.89	1,086.49
Nutrient balance	43.82	2.68	133.37	3,475.90
Applied to removed ratio	1.20	1.06	1.76	4.20

Fresh water applied
8,234,228.00 gallons
303.24 acre-inches
15.16 inches/acre

Process wastewater applied
1,631,485.00 gallons
60.08 acre-inches
3.00 inches/acre

Total harvests for the crop
1 harvests

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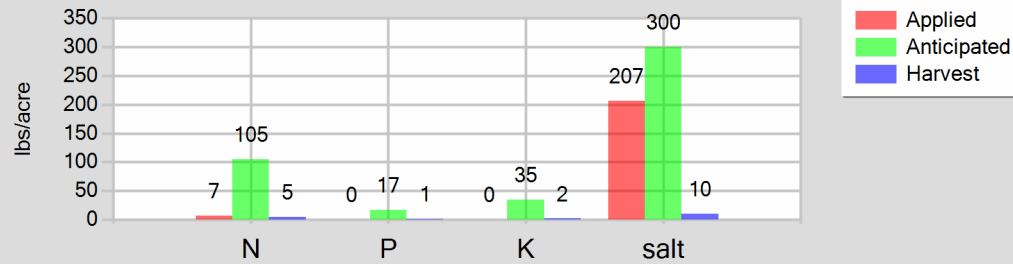
5 - 05/31/2023: Cotton, lint

Field name: 5

Crop: Cotton, lint

Plant date: 05/31/2023

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	206.58
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	7.00	0.00	0.00	206.58
Anticipated crop nutrient removal	105.00	17.10	34.80	300.00
Actual crop nutrient removal	4.99	1.05	1.85	9.87
Nutrient balance	2.01	-1.05	-1.85	196.70
Applied to removed ratio	1.40	0.00	0.00	20.93

Fresh water applied
16,503,046.00 gallons
607.75 acre-inches
30.39 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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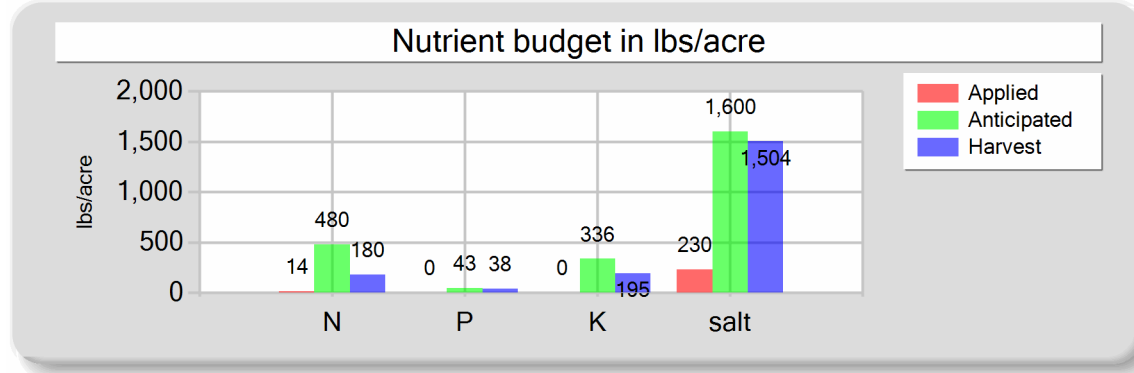
Reporting period 01/01/2023 to 12/31/2023.

8 - 11/25/2022: Alfalfa, hay

Field name: 8

Crop: Alfalfa, hay

Plant date: 11/25/2022



	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	15,618,195.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	575.17 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	33.83 <i>inches/acre</i>
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	230.00	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.00	0.00	0.00	230.00	
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00	
Actual crop nutrient removal	179.50	37.92	194.67	1,504.27	
Nutrient balance	-165.50	-37.92	-194.67	-1,274.27	
Applied to removed ratio	0.08	0.00	0.00	0.15	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Manure

Sample and source description: Manure

Sample date: 11/15/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 33.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,900.00	5,000.00	26,900.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

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

Moisture: 5.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	4,600.00	20,200.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/12/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,500.00	3,100.00	12,400.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

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

Lagoon

Sample and source description: Lagoon

Sample date: 11/15/2022 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	157.00	80.60	0.00	0.00	17.60	142.00								5,560.00	3,690
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 02/21/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	257.00	63.60	0.00	0.00	23.30	222.00								3,770.00	2,500
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

Dom 1

Domestic Well

Sample description: Domestic Well

Sample date: 12/13/2023 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			16.10								1,340.00	
DL			0.20								1.00	

Dom 4

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

Dom 4**Domestic Well**Sample description: Domestic WellSample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			14.00								1,110.00	
DL			0.20								1.00	

Dom 5**Domestic Well**Sample description: Domestic WellSample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			5.30								490.00	
DL			0.10								1.00	

Lemoore I.D.**Lemoore ID**Sample description: Lemoore IDSample date: 07/18/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00								27.00	30
DL	0.50	0.20	0.20								1.00	20

D. SOIL ANALYSES

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

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 11/20/2022: Wheat, silage, soft dough

WheatSample and source description: WheatSample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 57.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,100.00	3,700.00	14,900.00		10.70
DL	500.00	200.00	200.00		0.05

12 - 11/15/2022: Wheat, silage, soft dough

Field #12Sample and source description: Field #12Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 61.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	3,000.00	11,200.00		7.43
DL	500.00	200.00	200.00		0.05

2 - 11/22/2022: Wheat, silage, soft dough

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2 - 11/22/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

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

Moisture: 58.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,200.00	3,200.00	11,500.00		9.05
DL	500.00	200.00	200.00		0.05

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

4

Sample and source description: 4

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

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,400.00	3,100.00	11,800.00		7.15
DL	500.00	200.00	200.00		0.05

5 - 11/22/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

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

Moisture: 59.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	2,900.00	11,300.00		7.02
DL	500.00	200.00	200.00		0.05

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

5 - 05/31/2023: Cotton, lint

CottonSample and source description: CottonSample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 8.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,200.00	5,100.00	9,000.00		4.79
DL	500.00	200.00	200.00		0.05

8 - 11/25/2022: Alfalfa, hay

WheatSample and source description: WheatSample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 9.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,800.00	3,000.00	13,200.00		11.96
DL	500.00	200.00	200.00		0.05

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

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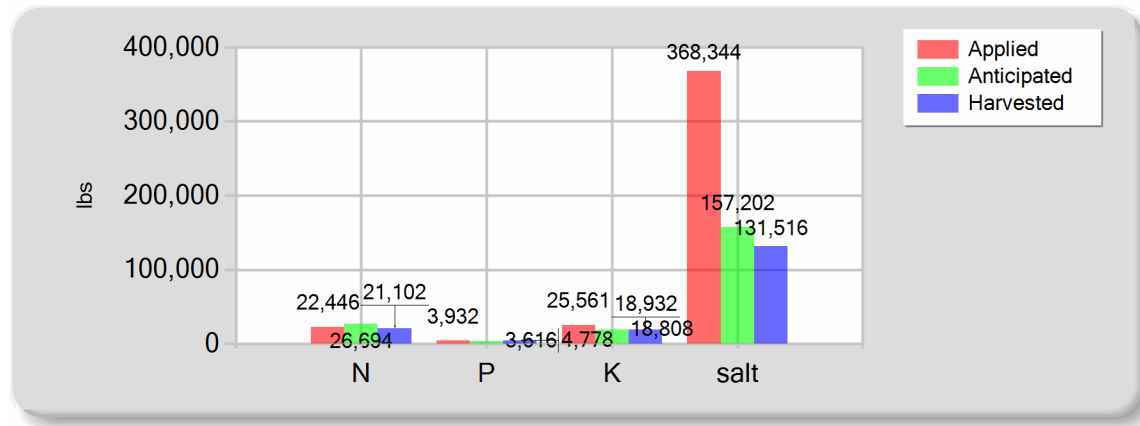
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

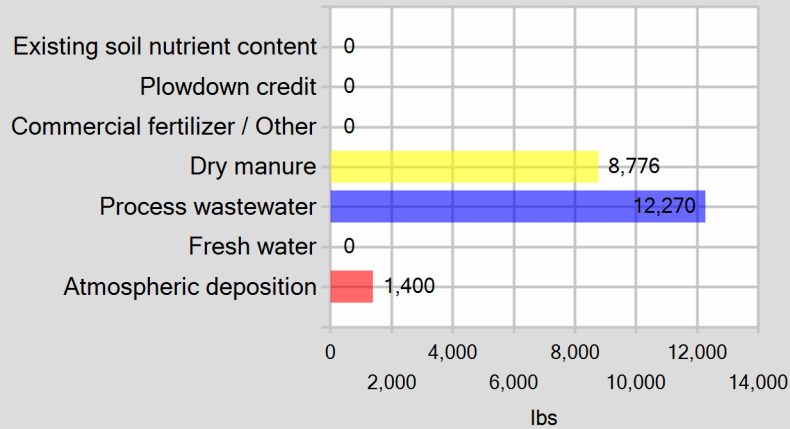
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	8,776.01	2,759.75	14,847.46	193,288.90
Process wastewater	12,270.39	1,172.74	10,713.62	158,100.10
Fresh water	0.00	0.00	0.00	16,954.51
Atmospheric deposition	1,400.00	0.00	0.00	0.00
Total nutrients applied	22,446.39	3,932.49	25,561.08	368,343.52
Anticipated crop nutrient removal	26,694.00	3,616.20	18,808.20	157,202.00
Actual crop nutrient removal	21,102.49	4,778.01	18,931.61	131,515.65
Nutrient balance	1,343.90	-845.51	6,629.46	236,827.87
Applied to removed ratio	1.06	0.82	1.35	2.80

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

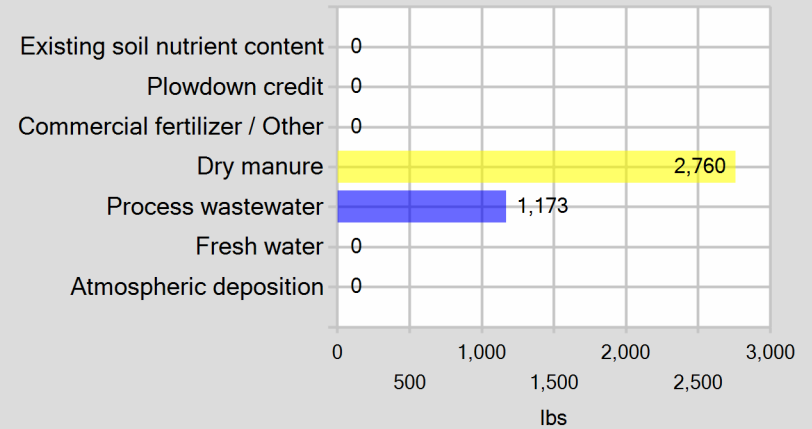


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

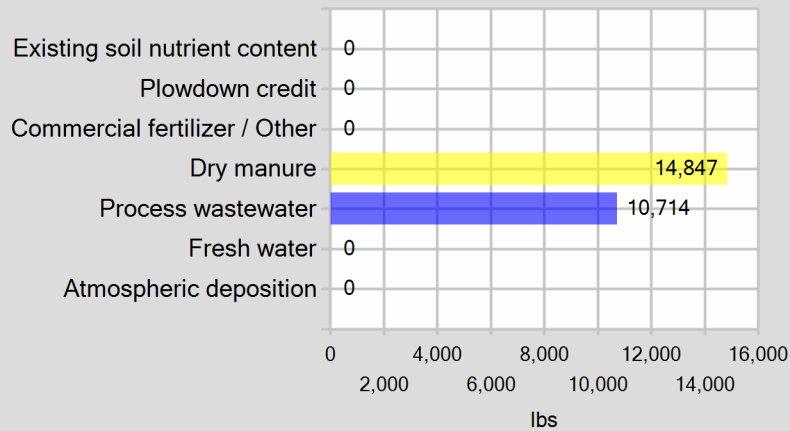
Pounds of nitrogen applied



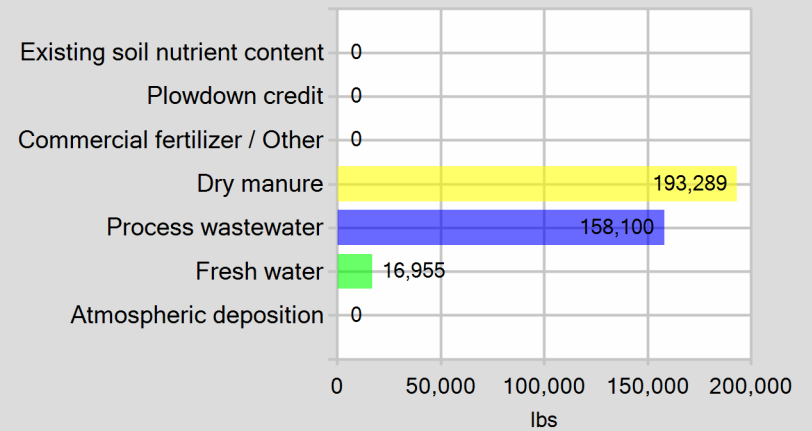
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

Wells Ag2, Ag3, Ag5, Ag6, Ag7, and Ag14 were unable to sample in 2023.

-2nd, 3rd, and 4th qtr. lagoon samples not taken due to no wastewater in lagoons.

-stopped milking cows in 1st quarter of 2023

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

Melvin Garcia

PRINT OR TYPE NAME

6/18/24

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFa Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

Manure/Process Wastewater Tracking Manifests

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents

Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

August 11, 2023

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

Lab No. : VI 2344652
Customer No. : 4019696
Reference : 3059

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Lemoore I.D.	07/18/2023	07/18/2023	VI 2344652-001	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

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



Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-08-14

August 11, 2023

Sentry Ag Services

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

Description : Lemoore I.D.
 Project : Lemoore I.D.

Lab No. : VI 2344652-001
 Customer No. : 4019696
 Reference : 3059
 Sampled On : July 18, 2023 at 10:15
 Sampled By : Jeremy
 Received On : July 18, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:23	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	15:11	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	Calc.	08/10/2023	17:23	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	15:11	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:23	lcr
Conductivity	27	1	umhos/cm		1		07/31/2023	14:51	amm	SM 4500-H+B	07/31/2023	18:22	amm
Solids, Total Dissolved (TDS)	30	20	mg/L		1		07/20/2023	10:40	ctl	SM 2540 C	07/21/2023	11:10	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

Corporate Offices & Laboratory

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 CA ELAP Certification No. 2810

August 11, 2023
Sentry Ag Service

Lab No. : VI 2344652
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344788-008)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	07/20/2023:207946CTL	Blank	mg/L	993.7	ND	<20	
			LCS	mg/L		98.8%	90-110	
			Dup	mg/L		0.9%	5	
			Dup	mg/L		1.38%	5	
Nitrogen, Total Kjeldahl	351.2	08/08/2023:208707STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		91.3%	73-124	
			MS	mg/L		85.5%	54-136	
			MSD	mg/L		85.3%	54-136	
			MSRPD	mg/L		0.3%	≤27	
			MS	mg/L		82.8%	54-136	
			MSD	mg/L		82.5%	54-136	
			MSRPD	mg/L		0.3%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/19/2023:207926LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.8%	80-120	
			MS	mg/L		91.9%	66-125	
			MSD	mg/L		94.5%	66-125	
			MSRPD	mg/L		1.2%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/19/2023:207926LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.8%	80-120	
			MS	mg/L		91.9%	66-125	
			MSD	mg/L		94.5%	66-125	
			MSRPD	mg/L		1.2%	≤30.4	

Definition

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



2344652

Laboratory Analysis Work Order

3059

SITE NAME: Lemoore F.D.LABORATORY: VF | FGL 4-19696Billing: Sentry AG Services, LLC
P.O. Box 7750, Visalia, CA 93290Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
 W2 EC, NO₃N, TDS, TN (Irr)
 W3 NH₄-N (Ammonium)
 W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
 W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
 W6 NO₃N, NO₂ (Dom ILRP, Annually)
 W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
 P2 TN, P, K (Mid-season - Corn)
 P3 TN, TP, TK, Ash, %M (At Harvest)
 P4 TN, %M
 P5 % Moisture
 P6 NIR
 P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
 L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
 L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
 L4 Other: _____

Manure

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

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
 S2 S1 + CEC, CaCO₃, OM, C:N, TN
 S3 NO₃N, NH₄N
 S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH ₃ N *	pH	Temp
1	Lemoore F.D.	Canal	W2	7/18/23 10:15	Benemj	—		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

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

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

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st		SAS		7/18/23 3:17pm
2 nd	SRO	FGL	7/18/23 1517	
3 rd	SRO	FGL		7/18/23 1730
4 th		GLS	7/18/23 1730	

LABORATORY USE ONLY

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

R01
5.300GLS 7/19/23
MLC 1100

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

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

2. Were samples received in a chilled condition? Temps: 20 / 5.3 / / /
Surface water SWTR bact samples: A sample that has a temperature upon receipt of $>10^{\circ}\text{C}$, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

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

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

Sample Receipt Review completed by (initials): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 3 / / / /

Acceptable is above freezing to 6°C . If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers: 559787246

6815

- | | | | |
|---|------------|----|------------|
| 3. Do the number of bottles received agree with the COC? | <u>Yes</u> | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <u>Yes</u> | No | |
| 5. Were sample custody seals intact? | Yes | No | <u>N/A</u> |

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

Sample Verification, Labeling and Distribution:

- | | | | |
|---|------------|----|------------|
| 1. Were all requested analyses understood and acceptable? | <u>Yes</u> | No | |
| 2. Did bottle labels correspond with the client's ID's? | <u>Yes</u> | No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | <u>Yes</u> | No | N/A FGL |
| 4. VOAs checked for Headspace? | Yes | No | <u>N/A</u> |
| 5. Have rush or project due dates been checked and accepted? | Yes | No | <u>N/A</u> |
| 6. Were all analyses within holding times at time of receipt? | <u>Yes</u> | No | |

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

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

Discrepancy Documentation:

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

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____
Resolution: _____

2. Person Contacted: _____
Initiated By: _____
Problem: _____
Resolution: _____

(4019696)
Sentry Ag Service
VI 2344652

iv 07/19/2023 08:11:44



VI 2344652

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

January 9, 2024

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

Lab No. : VI 2348506
Customer No. : 4019696
Reference : 3489

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(3 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dom 1	12/13/2023	12/13/2023	VI 2348506-001	DW
Dom 4	12/13/2023	12/13/2023	VI 2348506-002	DW
Dom 5	12/13/2023	12/13/2023	VI 2348506-003	DW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: JRD

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



Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2024-01-09

January 9, 2024

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : Dom 1
 Project : Garcia & Sons

Lab No. : VI 2348506-001
 Customer No. : 4019696
 Reference : 3489
 Sampled On : December 13, 2023 at 08:15
 Sampled By : Melvin
 Received On : December 13, 2023 at 15:30
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	16.1	0.4	mg/L	10	1		12/14/2023	13:30	lfs	SM 4500-NO3 F	12/14/2023	16:38	lfs
Conductivity	1340	1	umhos/cm	1600 ²	1		01/05/2024	10:29	krh	SM 4500-H+B	01/05/2024	11:59	krh

DQF Flags Definition:

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

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

Corporate Offices & Laboratory

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CA ELAP Certification No. 2775

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TEL: (559)734-9473

FAX: (559)734-8435

CA ELAP Certification No. 2810

January 9, 2024

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : Dom 4
 Project : Garcia & Sons

Lab No. : VI 2348506-002
 Customer No. : 4019696
 Reference : 3489
 Sampled On : December 13, 2023 at 08:27
 Sampled By : Melvin
 Received On : December 13, 2023 at 15:30
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	14.0	0.4	mg/L	10	1		12/14/2023	13:30	lfs	SM 4500-NO3 F	12/14/2023	15:31	lfs
Conductivity	1110	1	umhos/cm	1600 ²	1		12/15/2023	08:07	krh	SM 4500-H+B	12/15/2023	11:39	krh

DQF Flags Definition:

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

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

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

Office & Laboratory

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

January 9, 2024

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : Dom 5
 Project : Garcia & Sons

Lab No. : VI 2348506-003
 Customer No. : 4019696
 Reference : 3489
 Sampled On : December 13, 2023 at 08:45
 Sampled By : Melvin
 Received On : December 13, 2023 at 15:30
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	5.3	0.4	mg/L	10	1		12/14/2023	13:30	lfs	SM 4500-NO3 F	12/14/2023	15:33	lfs
Conductivity	490	1	umhos/cm	1600 ²	1		12/15/2023	08:07	krh	SM 4500-H+B	12/15/2023	11:56	krh

DQF Flags Definition:

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

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

Corporate Offices & Laboratory

853 Corporation Street

Santa Paula, CA 93060

TEL: (805)392-2000

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

CA ELAP Certification No. 1573

Office & Laboratory

2500 Stagecoach Road

Stockton, CA 95215

TEL: (209)942-0182

FAX: (209)942-0423

CA ELAP Certification No. 1563

Office & Laboratory

563 E. Lindo Avenue

Chico, CA 95926

TEL: (530)343-5818

FAX: (530)343-3807

CA ELAP Certification No. 2670

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Sentry Ag Service

Lab No. : VI 2348506
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Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348463-002)	Dup	umhos/cm		0%	5	
	2320B	(VI 2440088-001)	Dup	umhos/cm		0%	5	
Nitrate Nitrogen	4500NO3F	12/14/2023:214096LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	96.3%	80-120	
			MS	mg/L	5.609	93.2%	66-125	
			MSD	mg/L	5.609	98.8%	66-125	
			MSRPD	mg/L		3.1%	≤30.4	
		(VI 2348475-001)	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.7%	80-120	
			MS	mg/L	5.609	98.9%	66-125	
			MSD	mg/L	5.609	101%	66-125	
			MSRPD	mg/L		2.2%	≤30.4	
		(VI 2348512-001)						

Definition

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

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.



Laboratory Analysis Work Order

3489

SITE NAME: Garcia & Sons 2348506

LABORATORY: VF | FGL 4-19696

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

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1** EC, NO₃N (Dom)
W2 EC, NO₃N, TDS, TN (Irr)
W3 NH₄-N (Ammonium)
W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
W6 NO₃N, NO₂ (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
W8 Other: _____

Plant Tissue

- P1** TN, NO₃N, PO₄P, K (Mid Season - Wheat)
P2 TN, P, K (Mid-season - Corn)
P3 TN, TP, TK, Ash, %M (At Harvest)
P4 TN, %M
P5 % Moisture
P6 NIR
P7 Other: _____

Process Waste Water (lagoon)

- L1** EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
L4 Other: _____

Manure

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

Soil

- S1** SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
S2 S1 + CEC, CaCO₃, OM, C:N, TN
S3 NO₃N, NH₄N
S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH ₃ N*	pH	Temp
1	Dom 1	DW	W1	12/13/23 8:15	Melvin	0		
2	Dom 4	DW	W1	12/13/23 8:27		0		
3	Dom 5	DW	W1	12/13/23 8:45		0		
4								
5								
6								
7								
8								
9								
10								
11								
12								

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

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

NOTES: 13.6°C ID# TH407 801

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>[Signature]</u>	<u>SAS</u>		<u>12/13/23 15:20</u>
2 nd	<u>[Signature]</u>	<u>FGL</u>	<u>12/13/23 1530</u>	
3 rd	<u>[Signature]</u>	<u>FGL</u>		<u>12/13/23 1730</u>
4 th	<u>[Signature]</u>	<u>FGL</u>	<u>12/13/23 1730</u>	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No.: [Signature] 12/14/23 12/14

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at:

CC

CH

STK

VI

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

2. Temp IR Gun ID #: TH407

3. Were samples received on ice? ☒ Yes ☐ No Temps: 13.0°C / / /

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

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

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

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

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

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

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

Sample Receipt Review completed by (initials): MM

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): SL00030710, SL00030705

2. Temp IR Gun ID #: 266

3. Were samples received on ice? ☒ Yes ☐ No Temps: 1 / 1 / 1 / /

Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

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

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

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

Sample Verification, Labeling and Distribution:

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

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

3. Were all bottles requiring sample preservation properly preserved? ☒ Yes ☐ No ☐ N/A FGL

[Exception: Oil & Grease, VOA and CrVI verified in lab]

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

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

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

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

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

Discrepancy Documentation:

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

1. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem: _____

Resolution: _____

2. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem: _____

Resolution: _____