

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: VP Legacy Farms

Physical address of dairy:

28349 Los Angeles ST

Number and Street

Shafter

Kern

93263

City

County

Zip Code

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

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

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X088-X130-XX21-XXXX

B. OPERATORS

Vander Poel, John

Operator name: Vander Poel, John

Telephone no.:

(661) 340-9259

Landline

Cellular

28349 Los Angeles ST

Mailing Address Number and Street

Shafter

CA

93263

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Aukeman Investments LP

Legal owner name: Aukeman Investments LP

Telephone no.: (661) 205-2810

Landline

Cellular

28349 Los Angeles ST

Mailing Address Number and Street

Shafter

CA

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City

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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	2,545	260	703	525	533	0
Number under roof	0	0	0	0	0	0
Maximum number	2,610	274	747	540	543	0
Average number	2,545	260	703	525	533	0
Avg live weight (lbs)	1,400	1,450	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: 84,838.33 tons per reporting period

Total nitrogen from manure: 1,064,291.86 lbs per reporting period

After ammonia losses (30% loss applied): 745,004.30 lbs per reporting period

Total phosphorus from manure: 176,000.96 lbs per reporting period

Total potassium from manure: 495,751.31 lbs per reporting period

Total salt from manure: 1,258,100.25 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 56,176,657 gallons

Total nitrogen generated: 152,898.59 lbs

<u>56,176,657 gallons applied</u>
+ <u>0 gallons exported</u>
- <u>0 gallons imported</u>
<u>= 56,176,657 gallons generated</u>

Total phosphorus generated: 21,783.39 lbs

Total potassium generated: 189,127.45 lbs

Total salt generated: 1,673,060.06 lbs

D. FRESH WATER SOURCES

Source Description	Type
DW2	Ground water
DW4	Ground water
Well 1	Ground water
Well 3	Ground water
Well 4	Ground water

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Source Description	Type
Well 5	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**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/03/2023	Corral solids	5,172.00 ton	Dry-weight	26.1		20,400.00	8,100.00	24,500.00		0.00
03/15/2023	Corral solids	172.00 ton	Dry-weight	26.1		20,400.00	8,100.00	24,500.00		0.00
04/17/2023	Corral solids	196.00 ton	Dry-weight	26.1		20,400.00	8,100.00	24,500.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	167,037.65	66,323.77	200,608.94	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	167,037.65	66,323.77	200,608.94	0.00

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	78	78	2	process wastewater	X088-X130-XX21-XXXX
2	78	78	2	process wastewater	X088-X130-XX19-XXXX
3	78	78	2	process wastewater	X088-X130-XX19-XXXX
4	78	78	2	process wastewater	X088-X130-XX21-XXXX
5	38	38	0	none	X088-X130-XX21-XXXX
6	152	152	2	manure	X088-X150-XX18-XXXX
Totals for areas that were used for application	464	464	10		
Totals for areas that were not used for application	38	38	0		
Land application area totals	502	502	10		

B. CROPS AND HARVESTS

1

Field name: 1

11/10/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,524.00 ton	Dry-weight		69.6	17,400.00	3,700.00	14,900.00		9.61
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	19.54	206.70	43.95	177.00	1,141.61				

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1

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,319.00 ton	Dry-weight		71.0	13,000.00	2,700.00	18,900.00		7.36

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.73	224.17	46.56	325.91	1,269.15

2

Field name: 2

11/10/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,542.00 ton	Dry-weight		69.8	17,800.00	3,700.00	13,800.00		9.64

	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	19.77	212.54	44.18	164.78	1,151.08

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,314.00 ton	Dry-weight		70.8	14,700.00	2,800.00	19,200.00		7.35

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.67	254.68	48.51	332.65	1,273.41

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3

Field name: 3

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,522.00 ton	Dry-weight		69.6	18,100.00	3,600.00	13,200.00		9.16

	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	19.51	214.73	42.71	156.60	1,086.72

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	2,322.00 ton	Dry-weight		71.3	15,000.00	2,800.00	20,600.00		7.42

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.77	256.31	47.85	352.00	1,267.90

4

Field name: 4

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

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,514.00 ton	Dry-weight		68.8	17,700.00	3,600.00	12,200.00		10.20

	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	19.41	214.38	43.60	147.77	1,235.42

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4

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	2,325.00 ton	Dry-weight		70.0	14,300.00	2,600.00	18,700.00		6.93

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.81	255.75	46.50	334.44	1,239.40

6

Field name: 6

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

Crop: Wheat, silage, soft dough Acres planted: 152 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	2,796.00 ton	Dry-weight		67.8	18,100.00	3,900.00	14,700.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.39	214.42	46.20	174.14	1,255.70

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 152 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	4,415.00 ton	Dry-weight		68.8	14,500.00	2,600.00	15,600.00		6.24

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.05	262.81	47.12	282.75	1,130.98

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

1 - 11/10/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	118.05	13.08	108.30	1,499.94	2,530,650.00 gal
Well 3	Ground water	2.14	0.00	0.00	272.44	9,094,490.00 gal
Application event totals		120.19	13.08	108.30	1,772.38	
01/15/2023	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	74.26	16.48	115.98	876.42	2,452,640.00 gal
Well 3	Ground water	1.77	0.00	0.00	225.18	7,516,800.00 gal
Application event totals		76.03	16.48	115.98	1,101.60	
02/20/2023	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
Lagoon	Process wastewater	41.23	9.15	64.40	486.65	1,361,890.00 gal
Well 3	Ground water	1.91	0.00	0.00	242.50	8,095,060.00 gal
Application event totals		43.14	9.15	64.40	729.15	

1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	103.85	11.18	118.34	521.99	2,554,450.00 gal
Well 3	Ground water	2.31	0.00	0.00	293.45	9,795,890.00 gal
Application event totals		106.16	11.18	118.34	815.44	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	79.86	11.84	111.94	1,279.76	2,997,952.00 gal
Well 3	Ground water	2.12	0.00	0.00	269.24	8,987,582.00 gal
Application event totals		81.98	11.84	111.94	1,549.00	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	2.88	0.00	0.00	366.90	12,247,850.00 gal
Application event totals		2.88	0.00	0.00	366.90	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	2.80	0.00	0.00	355.84	11,878,450.00 gal
Application event totals		2.80	0.00	0.00	355.84	
08/15/2023	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	59.65	8.84	83.60	955.76	2,238,945.00 gal
Well 3	Ground water	2.29	0.00	0.00	291.81	9,741,040.00 gal
Application event totals		61.94	8.84	83.60	1,247.56	

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1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	2.63	0.00	0.00	335.21	11,190,060.00 gal
Application event totals		2.63	0.00	0.00	335.21	
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
Well 3	Ground water	2.58	0.00	0.00	328.62	10,969,778.00 gal
Application event totals		2.58	0.00	0.00	328.62	

2 - 11/10/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough Plant date: 11/10/2022

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	88.15	9.77	80.87	1,120.07	1,889,740.00 gal
Well 5	Ground water	16.66	0.00	0.00	768.73	9,979,540.00 gal
Application event totals		104.81	9.77	80.87	1,888.80	
01/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.38	16.73	117.74	889.68	2,489,741.00 gal
Well 3	Ground water	2.39	0.00	0.00	303.99	10,147,800.00 gal
Application event totals		77.77	16.73	117.74	1,193.67	

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2 - 11/10/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/20/2023	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	74.88	16.62	116.96	883.79
Well 3	Ground water	2.35	0.00	0.00	299.27
Application event totals		77.24	16.62	116.96	1,183.06

2 - 06/02/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	84.52	9.10	96.31	424.82
Well 5	Ground water	15.85	0.00	0.00	731.60
Application event totals		100.37	9.10	96.31	1,156.42
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	76.99	8.29	87.72	386.95
Well 3	Ground water	2.19	0.00	0.00	278.22
Application event totals		79.17	8.29	87.72	665.17
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Well 3	Ground water	2.04	0.00	0.00	259.05
Application event totals		2.04	0.00	0.00	259.05

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2 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.09	8.76	82.82	946.82	2,218,012.00 gal
Well 5	Ground water	14.65	0.00	0.00	676.25	8,778,964.00 gal
Application event totals		73.74	8.76	82.82	1,623.07	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	2.16	0.00	0.00	274.95	9,178,480.00 gal
Application event totals		2.16	0.00	0.00	274.95	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	49.50	7.34	69.38	793.20	1,858,148.00 gal
Well 3	Ground water	2.15	0.00	0.00	274.04	9,148,100.00 gal
Application event totals		51.65	7.34	69.38	1,067.25	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	15.17	0.00	0.00	700.21	9,090,060.00 gal
Application event totals		15.17	0.00	0.00	700.21	
09/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	1.87	0.00	0.00	238.12	7,948,990.00 gal
Application event totals		1.87	0.00	0.00	238.12	

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

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/12/2022	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	104.91	11.62	96.24	1,332.99	2,248,981.00 gal
Well 5	Ground water	14.32	0.00	0.00	660.80	8,578,400.00 gal
Application event totals		119.22	11.62	96.24	1,993.79	
01/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	15.15	0.00	0.00	699.30	9,078,200.00 gal
Application event totals		15.15	0.00	0.00	699.30	
02/21/2023	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	105.93	23.51	165.45	1,250.23	3,498,750.00 gal
Well 5	Ground water	15.83	0.00	0.00	730.60	9,484,520.00 gal
Application event totals		121.76	23.51	165.45	1,980.83	

3 - 06/02/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.83	8.44	89.36	394.17	1,928,945.00 gal
Well 3	Ground water	2.14	0.00	0.00	272.31	9,090,060.00 gal
Application event totals		80.97	8.44	89.36	666.48	

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3 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	2.23	0.00	0.00	283.86	9,475,630.00 gal
Application event totals		2.23	0.00	0.00	283.86	
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
Lagoon	Process wastewater	75.55	8.13	86.09	379.76	1,858,410.00 gal
Well 3	Ground water	2.23	0.00	0.00	284.27	9,489,500.00 gal
Application event totals		77.79	8.13	86.09	664.03	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	15.30	0.00	0.00	706.25	9,168,450.00 gal
Application event totals		15.30	0.00	0.00	706.25	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	53.01	7.86	74.30	849.42	1,989,850.00 gal
Well 5	Ground water	15.84	0.00	0.00	730.99	9,489,620.00 gal
Application event totals		68.85	7.86	74.30	1,580.42	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	69.17	10.25	96.94	1,108.31	2,596,320.00 gal
Well 3	Ground water	2.19	0.00	0.00	278.13	9,284,620.00 gal
Application event totals		71.35	10.25	96.94	1,386.45	

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3 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	16.17	0.00	0.00	746.39	9,689,540.00 gal
Application event totals		16.17	0.00	0.00	746.39	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	1.87	0.00	0.00	238.60	7,964,779.00 gal
Application event totals		1.87	0.00	0.00	238.60	

4 - 11/12/2022: Wheat, silage, soft dough

Field name: 4

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	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	86.99	9.64	79.81	1,105.34	1,864,895.00 gal
Well 5	Ground water	15.15	0.00	0.00	699.40	9,079,500.00 gal
Application event totals		102.14	9.64	79.81	1,804.74	
01/10/2023	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	83.25	9.22	76.38	1,057.84	1,784,750.00 gal
Well 5	Ground water	15.45	0.00	0.00	713.18	9,258,403.00 gal
Application event totals		98.70	9.22	76.38	1,771.02	

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4 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	50.27	11.16	78.52	593.34	1,660,460.00 gal
Well 5	Ground water	15.77	0.00	0.00	727.93	9,449,820.00 gal
Application event totals		66.05	11.16	78.52	1,321.27	

4 - 06/02/2023: Corn, silage

Field name: 4

Crop:	Corn, silage	Plant date: 06/02/2023				
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	93.48	10.06	106.52	469.86	2,299,350.00 gal
Well 5	Ground water	15.84	0.00	0.00	730.86	9,487,950.00 gal
Application event totals		109.32	10.06	106.52	1,200.73	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 5	Ground water	15.84	0.00	0.00	731.27	9,493,202.00 gal
Application event totals		15.84	0.00	0.00	731.27	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	85.17	9.17	97.05	428.08	2,094,896.00 gal
Well 5	Ground water	15.85	0.00	0.00	731.67	9,498,450.00 gal
Application event totals		101.02	9.17	97.05	1,159.76	

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4 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	45.73	6.78	64.09	732.75	1,716,520.00 gal
Well 3	Ground water	2.24	0.00	0.00	284.55	9,498,745.00 gal
Application event totals		47.96	6.78	64.09	1,017.29	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	2.18	0.00	0.00	277.52	9,264,020.00 gal
Application event totals		2.18	0.00	0.00	277.52	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	42.53	6.30	59.61	681.52	1,596,520.00 gal
Well 5	Ground water	15.32	0.00	0.00	707.06	9,178,960.00 gal
Application event totals		57.85	6.30	59.61	1,388.58	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	2.73	0.00	0.00	347.18	11,589,620.00 gal
Application event totals		2.73	0.00	0.00	347.18	
09/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	1.85	0.00	0.00	235.67	7,867,114.00 gal
Application event totals		1.85	0.00	0.00	235.67	

6 - 11/12/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

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6 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	220.78	66.23	244.62	0.00	940.00 ton
Application event totals		220.78	66.23	244.62	0.00	
11/13/2022	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
Well 1	Ground water	22.32	0.00	0.00	1,261.60	22,095,620.00 gal
Application event totals		22.32	0.00	0.00	1,261.60	
01/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 1	Ground water	22.30	0.00	0.00	1,260.62	22,078,450.00 gal
Application event totals		22.30	0.00	0.00	1,260.62	
03/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 1	Ground water	21.87	0.00	0.00	1,236.10	21,648,950.00 gal
Application event totals		21.87	0.00	0.00	1,236.10	

6 - 06/03/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/11/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	205.51	61.65	227.70	0.00	875.00 ton
Application event totals		205.51	61.65	227.70	0.00	

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6 - 06/03/2023: Corn, silage

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
Well 1	Ground water	21.69	0.00	0.00	1,226.18	21,475,180.00 gal
Application event totals		21.69	0.00	0.00	1,226.18	
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
Well 1	Ground water	18.78	0.00	0.00	1,061.41	18,589,540.00 gal
Application event totals		18.78	0.00	0.00	1,061.41	
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
Well 1	Ground water	18.98	0.00	0.00	1,072.57	18,784,950.00 gal
Application event totals		18.98	0.00	0.00	1,072.57	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 1	Ground water	19.79	0.00	0.00	1,118.85	19,595,400.00 gal
Application event totals		19.79	0.00	0.00	1,118.85	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 1	Ground water	19.70	0.00	0.00	1,113.32	19,498,540.00 gal
Application event totals		19.70	0.00	0.00	1,113.32	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 1	Ground water	18.47	0.00	0.00	1,044.02	18,284,840.00 gal
Application event totals		18.47	0.00	0.00	1,044.02	

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6 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 1	Ground water	18.48	0.00	0.00	1,044.79	18,298,410.00 gal
Application event totals		18.48	0.00	0.00	1,044.79	

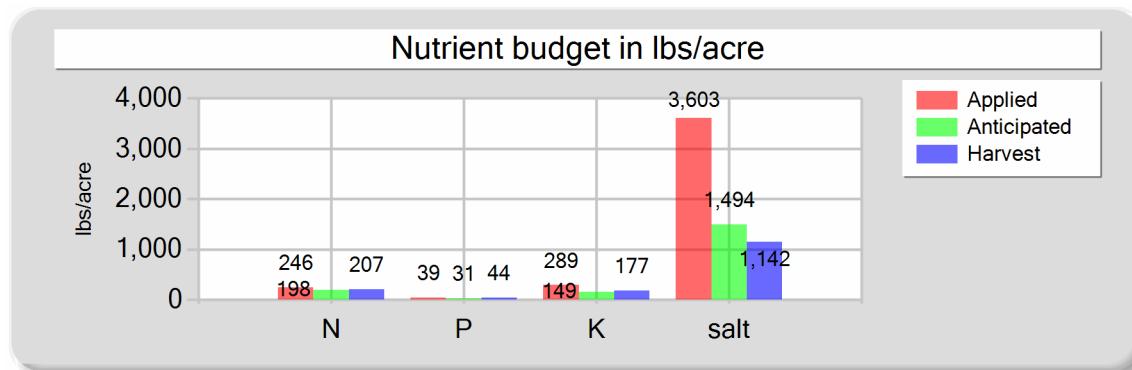
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B. NUTRIENT BUDGET

1 - 11/10/2022: Wheat, silage, soft dough

Field name: 1 Crop: Wheat, silage, soft dough Plant date: 11/10/2022



	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	233.54	38.71	288.68	2,863.01
Fresh water	5.82	0.00	0.00	740.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	246.35	38.71	288.68	3,603.13
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	206.70	43.95	177.00	1,141.61
Nutrient balance	39.65	-5.25	111.68	2,461.52
Applied to removed ratio	1.19	0.88	1.63	3.16

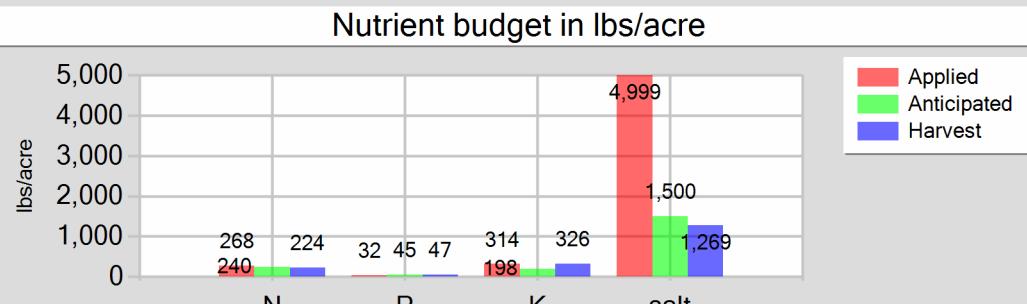
Fresh water applied
24,706,350.00 <i>gallons</i>
909.85 <i>acre-inches</i>
11.66 <i>inches/acre</i>
Process wastewater applied
6,345,180.00 <i>gallons</i>
233.67 <i>acre-inches</i>
3.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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1 - 06/01/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	243.36	31.85	313.87	2,757.51
Fresh water	17.61	0.00	0.00	2,241.06
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	267.97	31.85	313.87	4,998.57
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	224.17	46.56	325.91	1,269.15
Nutrient balance	43.80	-14.71	-12.03	3,729.42
Applied to removed ratio	1.20	0.68	0.96	3.94

Fresh water applied
74,810,650.00 gallons
2,755.02 acre-inches
35.32 inches/acre

Process wastewater applied
7,791,347.00 gallons
286.93 acre-inches
3.68 inches/acre

Total harvests for the crop
1 harvests

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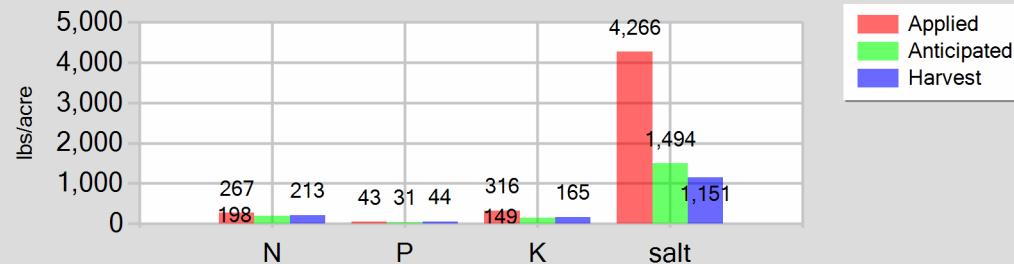
2 - 11/10/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022

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	238.42	43.11	315.56	2,893.54
Fresh water	21.40	0.00	0.00	1,371.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	266.81	43.11	315.56	4,265.53
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	212.54	44.18	164.78	1,151.08
Nutrient balance	54.27	-1.07	150.78	3,114.45
Applied to removed ratio	1.26	0.98	1.92	3.71

Fresh water applied

30,117,400.00 gallons
1,109.12 acre-inches
14.22 inches/acre

Process wastewater applied

6,852,761.00 gallons
252.36 acre-inches
3.24 inches/acre

Total harvests for the crop

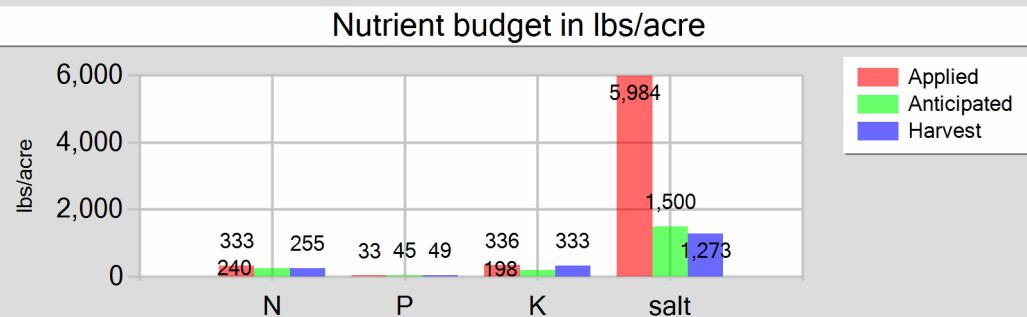
1 harvests

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2 - 06/02/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 06/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	270.09	33.48	336.23	2,551.80
Fresh water	56.08	0.00	0.00	3,432.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	333.17	33.48	336.23	5,984.25
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	254.68	48.51	332.65	1,273.41
Nutrient balance	78.49	-15.04	3.58	4,710.84
Applied to removed ratio	1.31	0.69	1.01	4.70

Fresh water applied

71,576,916.00 gallons
2,635.93 acre-inches
33.79 inches/acre

Process wastewater applied

8,048,722.00 gallons
296.41 acre-inches
3.80 inches/acre

Total harvests for the crop

1 harvests

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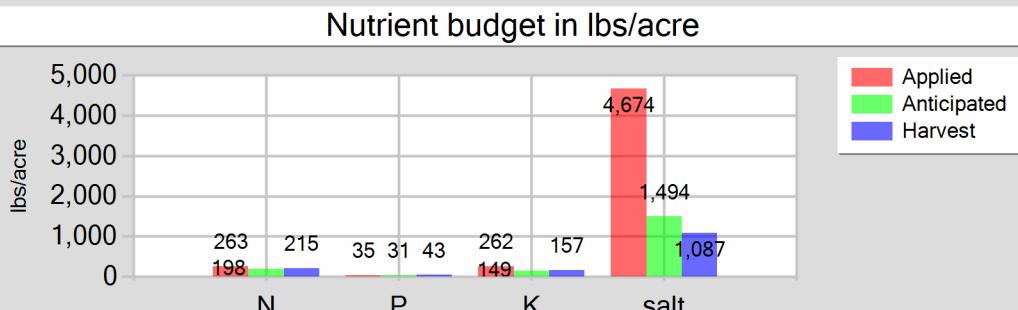
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3 - 11/11/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	210.84	35.13	261.69	2,583.22
Fresh water	45.30	0.00	0.00	2,090.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	263.14	35.13	261.69	4,673.93
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	214.73	42.71	156.60	1,086.72
Nutrient balance	48.40	-7.58	105.09	3,587.20
Applied to removed ratio	1.23	0.82	1.67	4.30

Fresh water applied

27,141,120.00 gallons
999.52 acre-inches
12.81 inches/acre

Process wastewater applied

5,747,731.00 gallons
211.67 acre-inches
2.71 inches/acre

Total harvests for the crop

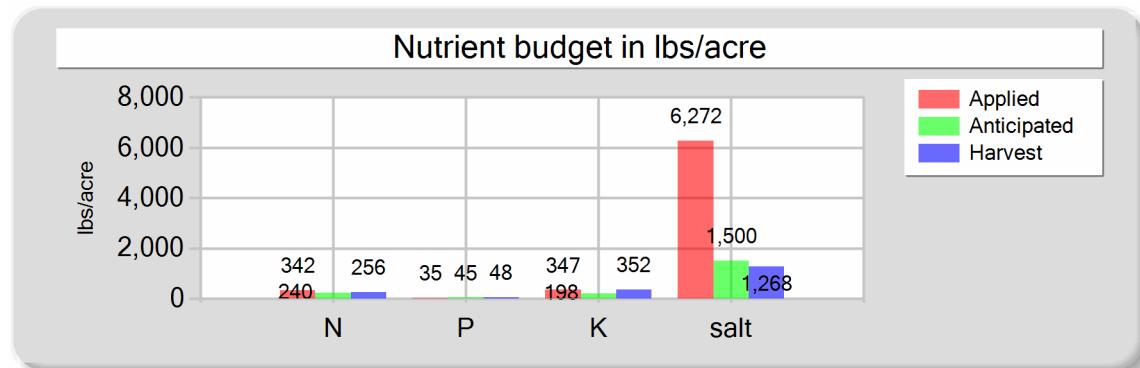
1 harvests

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

3 - 06/02/2023: Corn, silage

Field name: 3 Crop: Corn, silage Plant date: 06/02/2023



	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	276.56	34.68	346.69	2,731.67
Fresh water	57.98	0.00	0.00	3,540.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	341.54	34.68	346.69	6,272.47
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	256.31	47.85	352.00	1,267.90
Nutrient balance	85.23	-13.17	-5.31	5,004.57
Applied to removed ratio	1.33	0.72	0.98	4.95

Fresh water applied
73,652,199.00 gallons
2,712.36 acre-inches
34.77 inches/acre

Process wastewater applied
8,373,525.00 gallons
308.37 acre-inches
3.95 inches/acre

Total harvests for the crop
1 harvests

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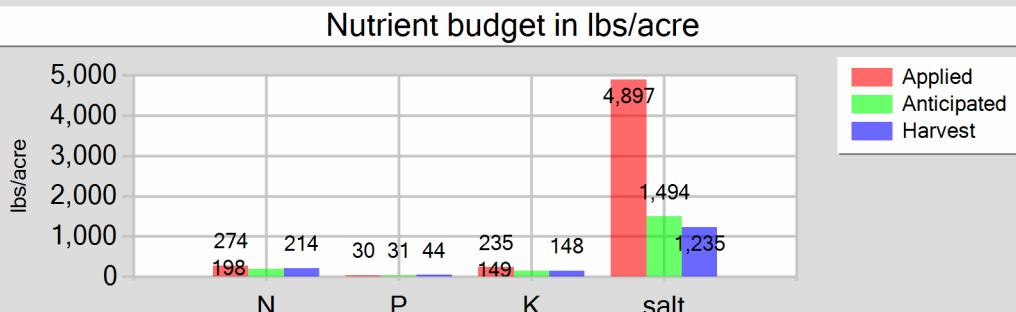
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/12/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	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	220.52	30.02	234.71	2,756.52
Fresh water	46.38	0.00	0.00	2,140.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	273.89	30.02	234.71	4,897.03
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	214.38	43.60	147.77	1,235.42
Nutrient balance	59.51	-13.59	86.94	3,661.61
Applied to removed ratio	1.28	0.69	1.59	3.96

Fresh water applied

27,787,723.00 gallons
1,023.33 acre-inches
13.12 inches/acre

Process wastewater applied

5,310,105.00 gallons
195.55 acre-inches
2.51 inches/acre

Total harvests for the crop

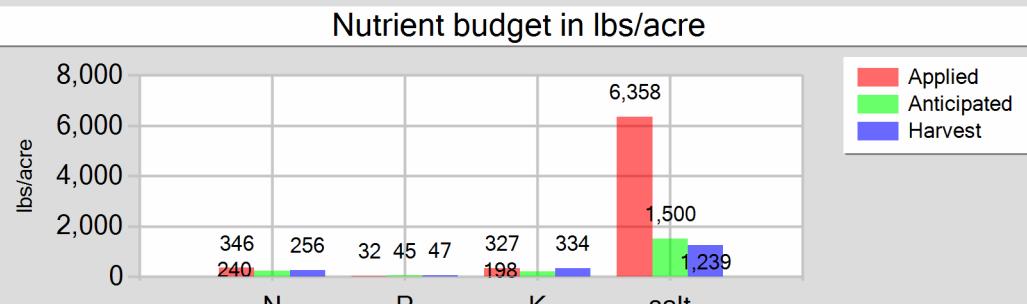
1 harvests

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

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

4 - 06/02/2023: Corn, silage

Field name: 4 Crop: Corn, silage Plant date: 06/02/2023



	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	266.91	32.31	327.27	2,312.21
Fresh water	71.85	0.00	0.00	4,045.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	345.76	32.31	327.27	6,358.00
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	255.75	46.50	334.44	1,239.40
Nutrient balance	90.01	-14.19	-7.17	5,118.59
Applied to removed ratio	1.35	0.69	0.98	5.13

Fresh water applied
75,878,061.00 gallons
2,794.33 acre-inches
35.82 inches/acre

Process wastewater applied
7,707,286.00 gallons
283.83 acre-inches
3.64 inches/acre

Total harvests for the crop
1 harvests

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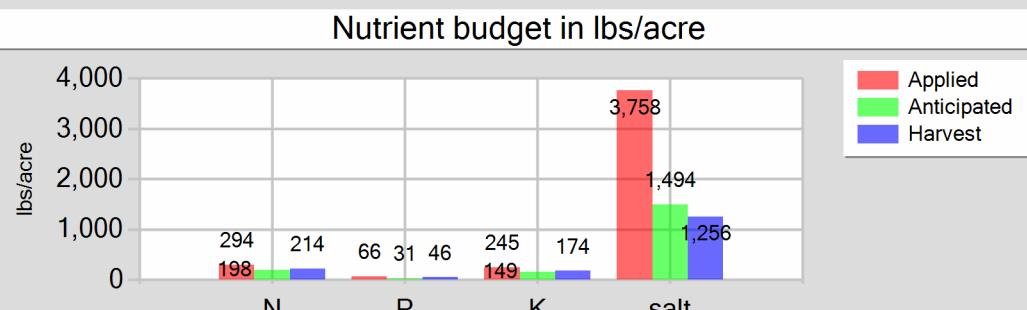
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/12/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	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	220.78	66.23	244.62	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	66.49	0.00	0.00	3,758.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.27	66.23	244.62	3,758.32
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	214.42	46.20	174.14	1,255.70
Nutrient balance	79.85	20.03	70.48	2,502.62
Applied to removed ratio	1.37	1.43	1.40	2.99

Fresh water applied

65,823,020.00 gallons
2,424.04 acre-inches
15.95 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

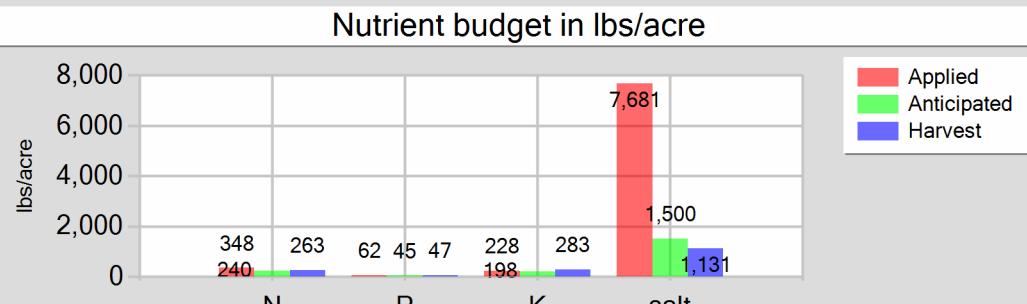
1 harvests

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

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

6 - 06/03/2023: Corn, silage

Field name: 6 Crop: Corn, silage Plant date: 06/03/2023



	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	205.51	61.65	227.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	135.90	0.00	0.00	7,681.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	348.41	61.65	227.70	7,681.13
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	262.81	47.12	282.75	1,130.98
Nutrient balance	85.60	14.53	-55.04	6,550.15
Applied to removed ratio	1.33	1.31	0.81	6.79

Fresh water applied
134,526,860.00 gallons
4,954.17 acre-inches
32.59 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

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

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

Sample and source description: Manure

Sample date: 10/05/2022 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 28.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,000.00	7,500.00	27,700.00							
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: Dry-weight

Moisture: 26.1 %

	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	20,400.00	8,100.00	24,500.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/03/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 26.7 %

	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	25,000.00	5,900.00	31,800.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

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

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

Lagoon

Sample and source description: Lagoon

Sample date: 11/18/2022 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	436.00	319.00			48.30	400.00								8,340.00	5,540
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 03/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.10

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	283.00	184.00	0.00	0.00	62.80	442.00								5,030.00	3,340
DL	10.00	2.00	0.50	0.50	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 05/01/2023 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	380.00	292.00	0.00	0.00	40.90	433.00								2,870.00	1,910
DL	10.00	2.00	0.50	0.50	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	249.00	243.00	0.00	0.00	36.90	349.00								6,010.00	3,990
DL	10.00	2.00	0.50	2.00	0.20	0.50								100.00	10

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

Lagoon

Sample and source description: Lagoon

Sample date: 11/07/2023 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)
Value	372.00	369.00	0.00	0.00	42.50	357.00								5,630.00	3,740
DL	10.00	2.00	0.50	0.50	0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

DW4

Domestic Well

Sample description: Domestic Well

Sample date: 11/30/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	20.00	0.00	20.00	72.00	0.00	119.00	30.00	0.00	46.70	180.00	1,100.00	820
DL	0.40	0.20	0.40	1.00	1.00	1.00	10.00	10.00	0.17	4.00	1.00	20

Well 1

Well 1

Sample description: Well 1

Sample date: 08/31/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	18.40	0.00	18.40	140.00	0.00	179.00	40.00	0.00	93.20	252.00	1,490.00	1,040
DL	0.50	0.50	0.50	1.00	1.00	1.00	10.00	10.00	0.83	5.00	5.00	20

Well 3

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

Well 3**Irrigation Well**Sample description: Irrigation WellSample date: 08/31/2023 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 (μ mhos/cm)	TDS (mg/L)
Value	2.20	0.00	2.20	14.00	0.00	89.00	40.00	0.00	9.00	110.00	523.00	280
DL	0.50	0.20	0.20	1.00	1.00	1.00	10.00	10.00	0.17	2.00	1.00	20

Well 5**Irrigation Well**Sample description: Irrigation WellSample 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 (μ mhos/cm)	TDS (mg/L)
Value	15.60	0.00	15.60	61.00	0.00	163.00	20.00	0.00	35.90	221.00	1,190.00	720
DL	0.50	0.50	0.20	1.00	1.00	1.00	10.00	10.00	0.17	5.00	1.00	20

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 11/10/2022: Wheat, silage, soft dough

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

1 - 11/10/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,400.00	3,700.00	14,900.00		9.61
DL	500.00	200.00	200.00		0.05

1 - 06/01/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,000.00	2,700.00	18,900.00		7.36
DL	500.00	200.00	200.00		0.05

2 - 11/10/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,800.00	3,700.00	13,800.00		9.64
DL	500.00	200.00	200.00		0.05

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

2 - 06/02/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	2,800.00	19,200.00		7.35
DL	500.00	200.00	200.00		0.05

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

Wheat

Sample and source description: Wheat

Sample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	3,600.00	13,200.00		9.16
DL	500.00	200.00	200.00		0.05

3 - 06/02/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,000.00	2,800.00	20,600.00		7.42
DL	500.00	200.00	200.00		0.05

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

4 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	3,600.00	12,200.00		10.20
DL	500.00	200.00	200.00		0.05

4 - 06/02/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,300.00	2,600.00	18,700.00		6.93
DL	500.00	200.00	200.00		0.05

6 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	3,900.00	14,700.00		10.60
DL	500.00	200.00	200.00		0.05

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

6 - 06/03/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	2,600.00	15,600.00		6.24
DL	500.00	200.00	200.00		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

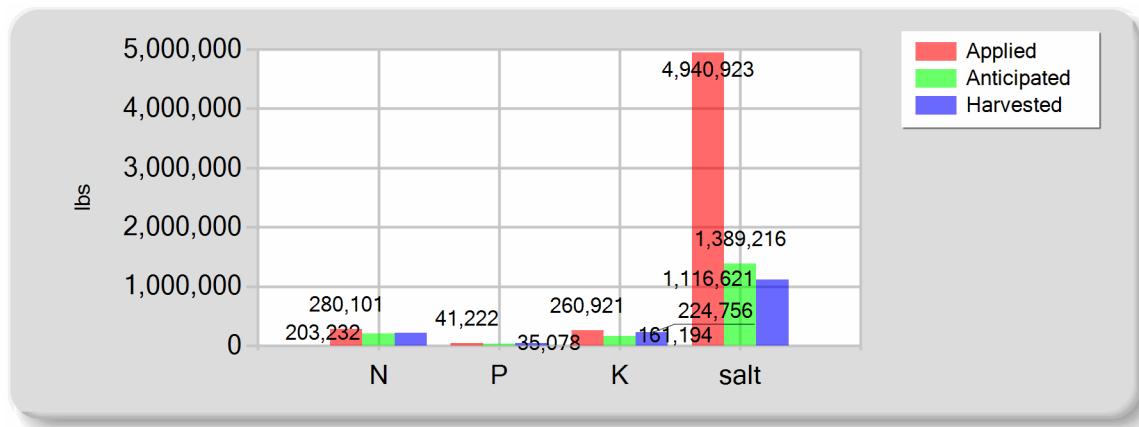
No subsurface (tile) drainage analyses entered.

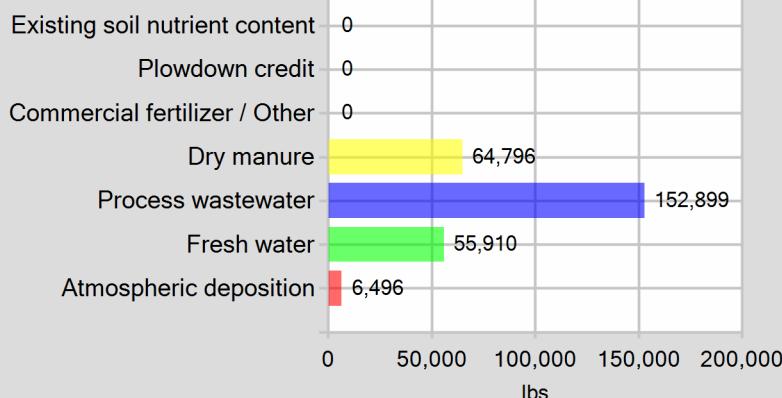
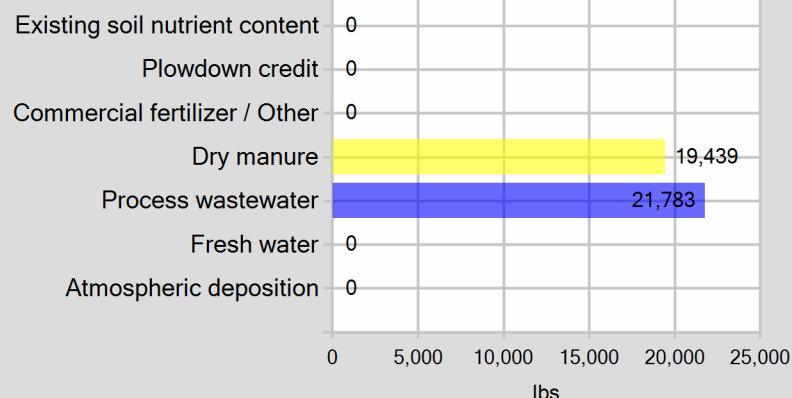
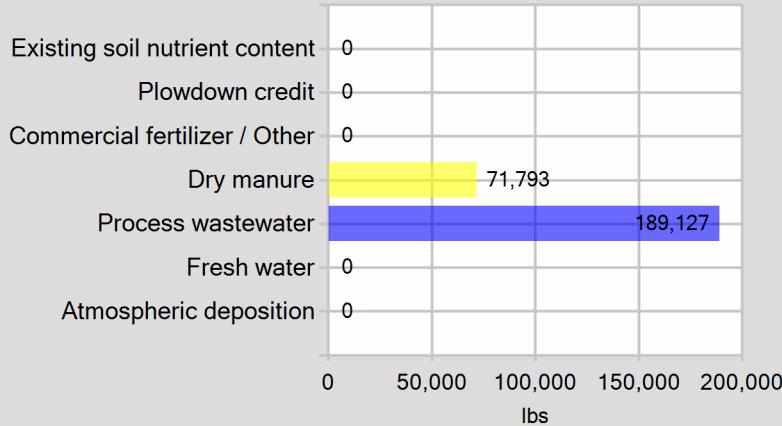
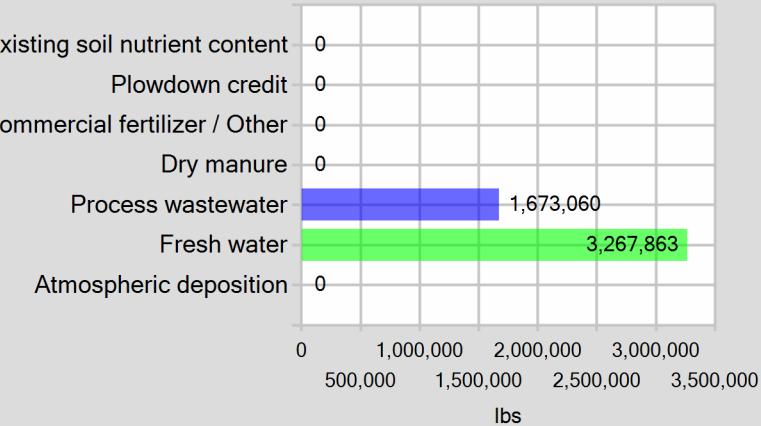
Annual Report - General Order No. R5-2007-0035

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	64,795.50	19,438.65	71,793.41	0.00
Process wastewater	152,898.59	21,783.39	189,127.45	1,673,060.06
Fresh water	55,910.49	0.00	0.00	3,267,862.51
Atmospheric deposition	6,496.00	0.00	0.00	0.00
Total nutrients applied	280,100.58	41,222.04	260,920.87	4,940,922.57
Anticipated crop nutrient removal	203,232.00	35,078.40	161,193.60	1,389,216.00
Actual crop nutrient removal	216,001.81	42,566.51	224,756.44	1,116,621.47
Nutrient balance	64,098.78	-1,344.47	36,164.42	3,824,301.10
Applied to removed ratio	1.30	0.97	1.16	4.42

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

Well DW2 and Well 4 were Out of Service in 2023.

Field 5 was fallow in 2023.

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

Aukeman Investments LP

PRINT OR TYPE NAME



DATE



SIGNATURE OF OPERATOR OF FACILITY

John Vander Poel

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.

July 28, 2023

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

Lab No. : VI 2344659
Customer No. : 4019696
Reference : 3056

Laboratory Report

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

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : Results for each sample submitted. |
| Quality Control | (2 pages) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Well 5	07/18/2023	07/18/2023	VI 2344659-001	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 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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: 2023-07-31

Section: Case Narrative

Page 1 of 4

Page 1 of 4

Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	Office & Laboratory 3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810
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July 28, 2023

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

Description : Well 5
 Project : Aukeman

Lab No. : VI 2344659-001
 Customer No. : 4019696
 Reference : 3056
 Sampled On : July 18, 2023 at 08:40
 Sampled By : Klay
 Received On : July 18, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Alkalinity (as CaCO ₃)	20	10	mg/L		1		07/25/2023	14:54	amm	SM 4500-H+B	07/25/2023	19:21	amm	
Bicarbonate	20	10	mg/L		1		07/25/2023	14:54	amm	SM 4500-H+B	07/25/2023	19:21	amm	
Carbonate	ND	10	mg/L		1	U	07/25/2023	14:54	amm	SM 4500-H+B	07/25/2023	19:21	amm	
Hydroxide	ND	10	mg/L		1	U	07/25/2023	14:54	amm	SM 4500-H+B	07/25/2023	19:21	amm	
Chloride	221	5*	mg/L		5	b	07/19/2023	10:28	ldm	EPA 300.0	07/20/2023	05:48	ldm	
Nitrate Nitrogen	15.6	0.1	mg/L		1		07/19/2023	10:28	ldm	EPA 300.0	07/20/2023	00:56	ldm	
Conductivity	1190	1	umhos/cm		1		07/25/2023	14:54	amm	SM 4500-H+B	07/25/2023	19:21	amm	
Sulfate Sulfur	35.9	0.17	mg/L		1		07/19/2023	10:28	ldm	EPA 300.0	07/20/2023	00:56	ldm	
Solids, Total Dissolved (TDS)	720	20	mg/L		1		07/20/2023	10:40	ctl	SM 2540 C	07/21/2023	11:10	ctl	
Calcium	61	1	mg/L		1		07/21/2023	05:57	ejc	EPA 200.7	07/21/2023	16:27	ac	
Magnesium	ND	1	mg/L		1	U	07/21/2023	05:57	ejc	EPA 200.7	07/21/2023	16:27	ac	
Potassium	1	1	mg/L		1		07/21/2023	05:57	ejc	EPA 200.7	07/21/2023	16:27	ac	
Sodium	163	1	mg/L		1		07/21/2023	05:57	ejc	EPA 200.7	07/21/2023	16:27	ac	

DQF Flags Definition:

U Constituent results were non-detect.

b The Blank was positive for constituent but less than the PQL

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

July 28, 2023

Sentry Ag Service

Lab No. : VI 2344659

Customer No. : 4019696

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	07/21/2023:207977EJC (SP 2312251-002)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 0.1% 12.00 12.00 12.00	ND 101% 73.3% 71.3% 0.1% 73.7% 50.1% 2.8%	<1 85-115 <¼ <1/4 ≤20.0 <¼ <1/4 ≤20.0	406
Magnesium	200.7	07/21/2023:207977EJC (SP 2312251-002)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 1.4% 12.00 12.00 12.00	ND 98.7% 66.9% 79.0% 1.4% 76.9% 78.0% 0.2%	<1 85-115 <¼ 75-125 ≤20 75-125 75-125 ≤20	406
Potassium	200.7	07/21/2023:207977EJC (SP 2312251-002)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 1.5% 12.00 12.00 12.00	ND 97.9% 102% 105% 1.5% 101% 99.8% 0.7%	<1 85-115 75-125 75-125 ≤20.0 75-125 75-125 ≤20.0	
Sodium	200.7	07/21/2023:207977EJC (SP 2312251-002)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 0.0% 12.00 12.00 12.00	ND 99.6% 88.2% 88.2% 0.0% 76.7% 52.8% 2.7%	<1 85-115 75-125 75-125 ≤20.0 75-125 <1/4 ≤20.0	

Definition

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

Explanation

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

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	07/25/2023:208164AMM	ND	mg/L		1.78%	10	406
Bicarbonate	2320B	(STK2339847-001)	Dup	mg/L		1.73%	10	
E. C.	2320B	(STK2339847-001)	Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2540CE	07/20/2023:207946CTL (SP 2312188-006) (SP 2312188-006)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	993.7	ND 98.8% 0.9% 1.38%	<20 90-110 5 5	
Chloride	300.0	07/19/2023:207954LDM (SP 2311728-004) (SP 2311728-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	25.00 50.00 50.00 50.00 10.00 50.00 50.00 10.00	1 101 % 98.1 % 96.8 % 1.0% 90.6 % 86.7 % 2.1%	<1 90-110 85-121 85-121 ≤19 85-121 85-121 ≤19	
Nitrate Nitrogen	300.0	07/19/2023:207954LDM (SP 2311728-004) (SP 2311728-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	20.00 40.00 40.00 10.00 40.00 40.00 40.00 10.00	ND 100 % 102 % 100 % 1.6% 97.2 % 93.1 % 2.8%	<0.4 90-110 85-119 85-119 ≤19 85-119 85-119 ≤19	
Sulfate Sulfur	300.0	07/19/2023:207954LDM (SP 2311728-004) (SP 2311728-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	50.00 100.0 100.0 100.0 10.00 100.0 100.0 10.00	ND 102 % 96.0 % 94.7 % 0.9% 99.1 % 94.9 % 3.1%	<0.5 90-110 82-124 82-124 ≤23 82-124 82-124 ≤23	

Definition

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

Explanation

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



2344659

Laboratory Analysis Work Order

3056

SITE NAME: AukermanBilling: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290LABORATORY: VT | FGL 4-19696Authorized 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 Well 5	Irr. Well	W4	7/18/23 8:40	Klay	—		
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	Klay	SAS		7/18/23 15:17
2 nd	SRQ	FGL	7/18/23 1517	
3 rd	SRQ	FGL		7/18/23 1730
4 th		GLS	7/18/23 1730	

LABORATORY USE ONLY

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

R01
5.3°CGLS
MC
11007/19/23
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°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.

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

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 34 / / / / /
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:
59787246
6815

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

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

Sample Verification, Labeling and Distribution:

- | | | | |
|---|---|----|---------|
| 1. Were all requested analyses understood and acceptable? | <input checked="" type="checkbox"/> Yes | No | |
| 2. Did bottle labels correspond with the client's ID's? | <input checked="" type="checkbox"/> Yes | No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | <input checked="" type="checkbox"/> Yes | No | N/A FGL |
| 4. VOAs checked for Headspace? | 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? | <input checked="" type="checkbox"/> Yes | No | |

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

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

Discrepancy Documentation:

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

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

(4019696)
Sentry Ag Service
VI 2344659

cda 07/19/2023 11:50:21

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



September 29, 2023

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

Lab No. : VI 2345834
Customer No. : 4019696
Reference : 3144

Laboratory Report

Introduction: This report package contains a total of 6 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (2 pages) | : Results for each sample submitted. |
| Quality Control | (3 pages) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Well 1	08/31/2023	08/31/2023	VI 2345834-001	AGW
Well 3	08/31/2023	08/31/2023	VI 2345834-002	AGW

Sampling and Receipt Information:

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

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

Test Summary

EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
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)

Discussion of Analytical Results:

VI 2345834-2 The nitrite-N result used to calculate nitrate-N was performed past holding time.

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: 2023-09-29

Section: Case Narrative

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Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	Office & Laboratory 3442 Empresia Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810
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September 29, 2023

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

Description : Well 1
 Project : Aukeman

Lab No. : VI 2345834-001
 Customer No. : 4019696
 Reference : 3144
 Sampled On : August 31, 2023 at 09:20
 Sampled By : Klay
 Received On : August 31, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Alkalinity (as CaCO ₃)	30	10	mg/L		1		09/05/2023	15:53	amm	SM 4500-H+B	09/05/2023	20:14	amm
Bicarbonate	40	10	mg/L		1		09/05/2023	15:53	amm	SM 4500-H+B	09/05/2023	20:14	amm
Carbonate	ND	10	mg/L		1	U	09/05/2023	15:53	amm	SM 4500-H+B	09/05/2023	20:14	amm
Hydroxide	ND	10	mg/L		1	U	09/05/2023	15:53	amm	SM 4500-H+B	09/05/2023	20:14	amm
Chloride	252	5*	mg/L		5		09/01/2023	14:36	ldm	EPA 300.0	09/02/2023	06:44	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:42	lcr
Nitrate Nitrogen	18.4	0.5*	mg/L		5		09/01/2023	14:36	ldm	EPA 300.0	09/02/2023	06:44	ldm
Nitrogen, Total as Nitrogen	18.4	0.5	mg/L		1	1	09/12/2023	09:41	sta	Calc.	09/13/2023	16:42	lcr
Nitrate + Nitrite as N	18.4	0.5*	mg/L		5		09/01/2023	14:36	ldm	EPA 300.0	09/02/2023	06:44	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:42	lcr
Conductivity	1490	1	umhos/cm		1		09/05/2023	15:53	amm	SM 4500-H+B	09/05/2023	20:14	amm
Sulfate Sulfur	93.2	0.83*	mg/L		5		09/01/2023	14:36	ldm	EPA 300.0	09/02/2023	06:44	ldm
Solids, Total Dissolved (TDS)	1040	20	mg/L		1		09/05/2023	15:20	ctl	SM 2540 C	09/06/2023	11:00	ctl
Calcium	140	1	mg/L		1		09/08/2023	06:55	ejc	EPA 200.7	09/08/2023	19:44	ac
Magnesium	ND	1	mg/L		1	U	09/08/2023	06:55	ejc	EPA 200.7	09/08/2023	19:44	ac
Sodium	179	1	mg/L		1		09/08/2023	06:55	ejc	EPA 200.7	09/08/2023	19:44	ac

DQF Flags Definition:

U Constituent results were non-detect.
 I The MS/MSD did not meet QC criteria.

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

September 29, 2023

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

Description : Well 3
 Project : Aukeman

Lab No. : VI 2345834-002
 Customer No. : 4019696
 Reference : 3144
 Sampled On : August 31, 2023 at 09:00
 Sampled By : Klay
 Received On : August 31, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Alkalinity (as CaCO ₃)	30	10	mg/L		1		09/09/2023	20:06	amm	SM 4500-H+B	09/10/2023	05:47	amm
Bicarbonate	40	10	mg/L		1		09/09/2023	20:06	amm	SM 4500-H+B	09/10/2023	05:47	amm
Carbonate	ND	10	mg/L		1	UI	09/09/2023	20:06	amm	SM 4500-H+B	09/10/2023	05:47	amm
Hydroxide	ND	10	mg/L		1	UI	09/09/2023	20:06	amm	SM 4500-H+B	09/10/2023	05:47	amm
Chloride	110	2*	mg/L		2	1	09/27/2023	13:00	lfs	EPA 300.0	09/27/2023	21:54	lfs
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:44	lcr
Nitrate Nitrogen	2.2	0.4	mg/L		1		09/13/2023	12:15	lfs	SM 4500-NO3 F	09/13/2023	12:56	lfs
Nitrogen, Total as Nitrogen	2.2	0.5	mg/L		1	1	09/12/2023	09:41	sta	Calc.	09/13/2023	16:44	lcr
Nitrate + Nitrite as N	2.2	0.4	mg/L		1		09/13/2023	12:15	lfs	SM 4500-NO3 F	09/13/2023	12:56	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:44	lcr
Conductivity	523	1	umhos/cm		1		09/09/2023	20:06	amm	SM 4500-H+B	09/10/2023	05:47	amm
Sulfate Sulfur	9.00	0.17	mg/L		1		09/27/2023	13:00	lfs	EPA 300.0	09/27/2023	17:02	lfs
Solids, Total Dissolved (TDS)	280	20	mg/L		1		09/06/2023	13:00	ctl	SM 2540 C	09/07/2023	11:00	ctl
Calcium	14	1	mg/L		1		09/08/2023	06:55	ejc	EPA 200.7	09/08/2023	21:02	ac
Magnesium	ND	1	mg/L		1	U	09/08/2023	06:55	ejc	EPA 200.7	09/08/2023	21:02	ac
Sodium	89	1	mg/L		1		09/08/2023	06:55	ejc	EPA 200.7	09/08/2023	21:02	ac

DQF Flags Definition:

U Constituent results were non-detect.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

l The MS/MSD did not meet QC criteria.

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

September 29, 2023
Sentry Ag Service

Lab No. : VI 2345834
Customer No. : 4019696

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	09/08/2023:210050EJC	Blank	mg/L		ND	<1	
		(SP 2314960-001)	LCS	mg/L	12.00	107%	85-115	
			MS	mg/L	12.00	-102%	<¼	
			MSD	mg/L	12.00	279%	<¼	
			MSRPD	mg/L		5.9%	≤20.0	
		(SP 2315154-001)	MS	mg/L	12.00	159%	<¼	406
			MSD	mg/L	12.00	308%	<¼	
			MSRPD	mg/L		1.6%	≤20.0	
Magnesium	200.7	09/08/2023:210050EJC	Blank	mg/L		ND	<1	
		(SP 2314960-001)	LCS	mg/L	12.00	107%	85-115	
			MS	mg/L	12.00	25.8%	<¼	
			MSD	mg/L	12.00	56.9%	<¼	
			MSRPD	mg/L		2.2%	≤20	
		(SP 2315154-001)	MS	mg/L	12.00	124%	75-125	
			MSD	mg/L	12.00	701%	<¼	
			MSRPD	mg/L		24.6%	≤20	435
Sodium	200.7	09/08/2023:210050EJC	Blank	mg/L		ND	<1	
		(SP 2314960-001)	LCS	mg/L	12.00	108%	85-115	
			MS	mg/L	12.00	-83.3%	<¼	
			MSD	mg/L	12.00	668%	<¼	
			MSRPD	mg/L		3.3%	≤20.0	
		(SP 2315154-001)	MS	mg/L	12.00	318%	<¼	
			MSD	mg/L	12.00	665%	<¼	406
			MSRPD	mg/L		1.0%	≤20.0	

Definition

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

Explanation

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

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	09/05/2023:209945AMM	ND	mg/L		1.43%	10	435
	2320B	(VI 2345834-002)	Dup	mg/L		0.4%	10	
Bicarbonate	2320B	(SP 2314674-018)	Dup	mg/L		1.43%	10	
	2320B	(VI 2345834-002)	Dup	mg/L		3.06%	10	
Carbonate	2320B	(SP 2314674-018)	Dup	mg/L			10	
	2320B	(VI 2345834-002)	Dup	mg/L		54.5%	10	440
E. C.	2320B	(SP 2314674-018)	Dup	umhos/cm		0.2%	5	
	2320B	(VI 2345834-002)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	09/05/2023:209936CTL	Blank	mg/L		ND	<20	
		(CH 2377296-005)	LCS	mg/L	991.5	102%	90-110	
		(CH 2377296-005)	Dup	mg/L		0.5%	5	
		(CH 2377296-005)	Dup	mg/L		0.3%	5	
	2540CE	09/06/2023:209976CTL	Blank	mg/L		ND	<20	
		(SP 2314886-001)	LCS	mg/L	991.5	101%	90-110	
		(SP 2314886-001)	Dup	mg/L		2.19%	5	
		(SP 2314886-001)	Dup	mg/L		1.42%	5	
Chloride	300.0	09/01/2023:209915LDM	Blank	mg/L		ND	<1	
		(STK2351807-001)	LCS	mg/L	25.00	106 %	90-110	
		(CH 2377359-008)	MS	mg/L	50.00	67.0 %	67-117	
		(CH 2377359-008)	MSD	mg/L	50.00	71.1 %	67-117	
		(CH 2377359-008)	MSRPD	mg/L	10.00	1.6%	≤7	
		(CH 2377359-008)	MS	mg/L	50.00	101 %	67-117	
		(CH 2377359-008)	MSD	mg/L	50.00	101 %	67-117	
		(CH 2377359-008)	MSRPD	mg/L	10.00	0.2%	≤7	
	300.0	09/27/2023:210902LFS	Blank	mg/L		ND	<1	
		(VI 2345834-002)	LCS	mg/L	25.00	101%	90-110	
		(VI 2345834-002)	MS	mg/L	50.00	67.5%	67-117	
		(VI 2345834-002)	MSD	mg/L	50.00	66.5%	67-117	
		(VI 2345834-002)	MSRPD	mg/L		0.3%	≤7	435
Nitrate + Nitrite as N	300.0	09/01/2023:209915LDM	Blank	mg/L		ND	<0.4	
		(STK2351807-001)	LCS	mg/L	20.00	105 %	90-110	
		(CH 2377359-008)	MS	mg/L	40.00	96.5 %	86-112	
		(CH 2377359-008)	MSD	mg/L	40.00	96.2 %	86-112	
		(CH 2377359-008)	MSRPD	mg/L	10.00	0.2%	≤7	
		(CH 2377359-008)	MS	mg/L	40.00	89.6 %	86-112	
		(CH 2377359-008)	MSD	mg/L	40.00	89.7 %	86-112	
		(CH 2377359-008)	MSRPD	mg/L	10.00	0.02%	≤7	
Nitrate Nitrogen	300.0	09/01/2023:209915LDM	Blank	mg/L		ND	<0.4	
		(STK2351807-001)	LCS	mg/L	20.00	105 %	90-110	
		(CH 2377359-008)	MS	mg/L	40.00	96.5 %	86-112	
		(CH 2377359-008)	MSD	mg/L	40.00	96.2 %	86-112	
		(CH 2377359-008)	MSRPD	mg/L	10.00	0.2%	≤7	
		(CH 2377359-008)	MS	mg/L	40.00	89.6 %	86-112	
		(CH 2377359-008)	MSD	mg/L	40.00	89.7 %	86-112	
		(CH 2377359-008)	MSRPD	mg/L	10.00	0.02%	≤7	
Sulfate Sulfur	300.0	09/01/2023:209915LDM	Blank	mg/L		ND	<0.5	
		(STK2351807-001)	LCS	mg/L	50.00	108 %	90-110	
		(STK2351807-001)	MS	mg/L	100.0	102 %	18-165	
		(STK2351807-001)	MSD	mg/L	100.0	103 %	18-165	
		(STK2351807-001)	MSRPD	mg/L	10.00	0.1%	≤7	

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
		(CH 2377359-008)	MS	mg/L	100.0	104 %	18-165	
			MSD	mg/L	100.0	104 %	18-165	
			MSRPD	mg/L	10.00	0.2%	≤7	
Nitrogen, Total Kjeldahl	300.0	09/27/2023:210902LFS (VI 2345834-002)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	101%	90-110	
			MS	mg/L	100.0	98.1%	18-165	
			MSD	mg/L	100.0	98.3%	18-165	
			MSRPD	mg/L	0.2%	0.2%	≤7	
		09/12/2023:210201STA (CH 2377291-005)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	87.6%	73-124	
Nitrate + Nitrite as N	4500NO3F	09/13/2023:210275LFS (SP 2315466-001)	MS	mg/L	12.00	91.3%	90-110	435
			MSD	mg/L	12.00	83.2%	90-110	
			MSRPD	mg/L		8.9%	≤20	
			MS	mg/L	12.00	81.1%	<1/4	406
		(CH 2377291-006)	MSD	mg/L	12.00	79.6%	<1/4	
			MSRPD	mg/L	1.8%	1.8%	≤20	
			MSRPD	mg/L				

Definition

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

Explanation

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



Laboratory Analysis Work Order

3144

SITE NAME: AukemanBilling: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290

2345834

LABORATORY: VT

FGL 4-19696

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: _____

Process Waste Water (lagoon)

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

Manure

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

Soil

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

Plant Tissue

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

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	Well 1	↓	W5	8/31/23 9:20	Klay	—	
2	Well 3	↓		9:00		—	
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	<u>S. DeRosa</u>	SAS		8/31/23 15:17
2 nd	SRQ	FGL	8-31-23 1517	
3 rd	SRQ	FGL		8-31-23 1730
4 th		GLS	8-31-23 1730	

LABORATORY USE ONLY

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

R01
5-7°C
ID#444407OTS 9/1/23
CPA 1235

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI
1. Number of ice chests/packages received: _____ | Shipping tracking # OTC _____

2. Were samples received in a chilled condition? Temps: 1201 / 5.7 °F / _____ / _____
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.

- IP# TH407
- | | | | |
|---|--------------------------------------|----|-------|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="radio"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> Yes | No | |
| 5. VOAs checked for Headspace? | Yes | No | (N/A) |
| 6. Were sample custody seals intact? | Yes | No | (N/A) |
| 7. If required, was sample split for pH analysis? | Yes | No | (N/A) |
| 8. Were all analyses within holding times at time of receipt? | <input checked="" type="radio"/> Yes | No | |
| 9. Verify sample date, time and sampler name | <input checked="" type="radio"/> 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): SRG

Sample Receipt at SP:

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

560050773 / 66

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

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

Sample Verification, Labeling and Distribution:

- | | | | |
|---|--------------------------------------|----|---------|
| 1. Were all requested analyses understood and acceptable? | <input checked="" type="radio"/> Yes | No | |
| 2. Did bottle labels correspond with the client's ID's? | <input checked="" type="radio"/> Yes | No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | <input checked="" type="radio"/> Yes | No | N/A FGL |
| 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? | <input checked="" type="radio"/> 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): CDA

Discrepancy Documentation:

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

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem:
Resolution:
2. Person Contacted: _____ (4019696)
Initiated By: _____
Problem:
Resolution:

Sentry Ag Service
VI 2345834
cda 09/01/2023 08:11:31

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

here

2345834

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:			
Name of Operator:	John Vander Poel		
Name of Dairy Facility:	VLP Legacy Farms		
Facility Address:	28349 Los Angeles St.	Shafter CA	93263
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	John Vander Poel	661-340-9259	
	Name	Phone Number	
Manure/Process Wastewater Hauler Information:			
Name of Hauling Company/Person:	Hargis & Sons		
Address of Hauling Company /Person:	34378	7 th Standard Blk Fl.	93314
	Number and Street	City	Zip Code
Contact Person:	Ben Hargis	661-619-1471	
	Name	Phone Number	
Destination Information:			
Composting Facility / Broker / Farmer / Other (identify)	(please circle one)		
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):			
Wilson Ag	Shafter	93263	661-809-9375
Name	Number and Street	City	Zip Code
			Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:			
Tulare St / Fresno St.	Shafter	93263	
Number and Street	City	Zip Code	Assessor's Parcel Number
Dates Hauled:	4/15-17/23		
Amount Hauled:			
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:			
Manure:	196	Tons or Cubic Yards (indicate which units used)	
Manure Solids Content (if amount reported in tons): _____			
Manure Density (if amount reported in cubic yards): _____			

Method used to determine amount of manure: Moisture Probe

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes

No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.
(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Amy T. in Date: 6/19/23

Hauler's Signature: Burk Haas Date: 5/30/23

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:				
Name of Operator: <u>John Vander Poel</u>				
Name of Dairy Facility: <u>VP Legacy Farms</u>				
Facility Address: <u>28349 Los Angeles St. Shafter CA</u>		Number and Street	City	Zip Code <u>93263</u>
Contact Person Name and Phone Number: <u>John Vander Poel</u>		Name	Phone Number <u>661-340-9259</u>	
Manure/Process Wastewater Hauler Information:				
Name of Hauling Company/Person: <u>Hargis & Sons</u>				
Address of Hauling Company /Person: <u>34378 7th Standard Blk&Fl. 93314</u>		Number and Street	City	Zip Code
Contact Person: <u>Ben Hargis</u>		Name	Phone Number <u>661-619-1471</u>	
Destination Information:				
Composting Facility / Broker <u>Farmer</u> / Other (identify) _____ (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
<u>Eric @ Unigen Farms</u>	<u>Shafter CA</u>	Number and Street	City	Zip Code <u>831-673-1233</u>
Phone Number				
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				
<u>Palm / Tulare Ave.</u>	Number and Street	City	Zip Code	Assessor's Parcel Number
Dates Hauled: <u>3/15/23</u>				
Amount Hauled:				
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:				
Manure: <u>172</u>	Tons or Cubic Yards (indicate which units used)			
Manure Solids Content (if amount reported in tons): _____				
Manure Density (if amount reported in cubic yards): _____				

Method used to determine amount of manure: Moisture Probe

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes

No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.
(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: W. Amy T. Jig

Date: 6/19/23

Hauler's Signature: Burk Haug

Date: 5/30/23

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator:	John Vander Poel		
Name of Dairy Facility:	Vf Legacy Farms		
Facility Address:	28349 Los Angeles St.	Shafter CA	93263
Number and Street	City	Zip Code	
Contact Person Name and Phone Number:	John Vander Poel	661-340-9259	
Name	Phone Number		

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person:	Hargis & Sons		
Address of Hauling Company /Person:	34378	7th Standard Blksflz.	93314
Number and Street	City	Zip Code	
Contact Person:	Ben Hargis	661-619-1471	
Name	Phone Number		

Destination Information:

Composting Facility / Broker / Farmer / Other (identify)	(please circle one)			
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
Hill	Arun CA	93203	661-557-1933	
Name	Number and Street	City	Zip Code	
Number and Street		City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Edison / Arun			
Number and Street	City	Zip Code	Assessor's Parcel Number

Dates Hauled: 2-15-23 → 3/3/23

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 5172.0 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: Nostrue Probe

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes

No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.
(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: W. Amy T. Hig

Date: 6/19/23

Hauler's Signature: Burk Haug

Date: 5/30/23