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: 4K Dairy Family Partnership

Physical address of dairy:

7976 84 AVE	Pixley	Tulare	93256
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 01/01/2013

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X313-X110-X006-XXXX

B. OPERATORS

Souza, Leslie

Operator name: Souza, Leslie Telephone no.: (559) 679-2313 (Landline) (Cellular)

P.O. Box 367	Corcoran	CA	93212
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Souza, Leslie

Legal owner name: Souza, Leslie Telephone no.: (559) 679-2313 (Landline) (Cellular)

P.O. Box 367	Corcoran	CA	93212
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	271	925	943	245	955
Number under roof	2,598	0	0	0	0	0
Maximum number	2,645	280	933	955	280	970
Average number	2,598	271	925	943	245	955
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Jersey-Holstein Cross

Average milk production: 72 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 94,129.38 *tons per reporting period*

Total nitrogen from manure: 1,167,341.25 *lbs per reporting period*

After ammonia losses (30% loss applied): 817,138.88 *lbs per reporting period*

Total phosphorus from manure: 189,839.51 *lbs per reporting period*

Total potassium from manure: 500,954.74 *lbs per reporting period*

Total salt from manure: 1,285,584.75 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 95,154,618 *gallons*

Total nitrogen generated: 218,154.52 *lbs*

Total phosphorus generated: 45,552.67 *lbs*

Total potassium generated: 294,800.98 *lbs*

Total salt generated: 2,133,457.77 *lbs*

	95,154,618	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	95,154,618	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Pixley I.D.	Surface water
W1	Ground water
W15	Ground water
W1A	Ground water
W2	Ground water

Source Description	Type
W20	Ground water
W3	Ground water
W4	Ground water
W5	Ground water
W7	Ground water
W8	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 (%)
12/01/2023	Corral solids	5,910.00 *ton*	Dry-weight	8.5		18,500.00	7,400.00	19,200.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	200,083.05	80,033.22	207,653.76	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	200,083.05	80,033.22	207,653.76	0.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	77	77	2	process wastewater	X313-X160-X002-XXXX
2	74	74	2	process wastewater	X313-X160-X002-XXXX
3	47	47	1	process wastewater	X313-X110-X005-XXXX X313-X110-X006-XXXX
4	22	22	0	none	X313-X110-X006-XXXX
5	79	79	2	process wastewater	X313-X110-X005-XXXX X313-X110-X006-XXXX
6	79	79	2	process wastewater	X313-X110-X006-XXXX
7	77	77	2	process wastewater	X313-X110-X003-XXXX X313-X110-X004-XXXX
8	77	77	2	process wastewater	X313-X110-X003-XXXX
Totals for areas that were used for application	510	510	13		
Totals for areas that were not used for application	22	22	0		
Land application area totals	532	532	13		

B. CROPS AND HARVESTS

1

Field name: 1

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

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	1,462.00 *ton*	Dry-weight		69.1	15,800.00	3,500.00	18,900.00		8.40

	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	18.99	185.40	41.07	221.77	985.65

1

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,160.00 *ton*	Dry-weight		67.0	11,800.00	2,300.00	12,900.00		4.99

	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	28.05	218.47	42.58	238.83	923.86

2

Field name: 2

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

Crop: Wheat, silage, soft dough Acres planted: 74 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,366.00 *ton*	Dry-weight		62.2	15,500.00	3,100.00	14,800.00		9.27

	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	18.46	216.31	43.26	206.54	1,293.66

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,080.00 *ton*	Dry-weight		66.0	11,800.00	2,300.00	12,700.00		5.56

	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	28.11	225.54	43.96	242.74	1,062.71

3

Field name: 3

06/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 47 Plant date: 06/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/14/2023	400.00 *ton*	Dry-weight		8.3	32,000.00	2,900.00	22,900.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	8.51	499.47	45.26	357.43	1,685.72

4

Field name: 4

11/10/2016: Pasture

Crop: Pasture Acres planted: 22 Plant date: 11/10/2016

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	240.00	40.00	96.00	800.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

5

Field name: 5

5

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

Crop: Wheat, silage, soft dough Acres planted: 79 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,445.00 *ton*	Dry-weight		70.3	16,900.00	3,700.00	19,100.00		8.53

	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	18.29	183.62	40.20	207.52	926.78

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,250.00 *ton*	Dry-weight		69.3	11,400.00	2,200.00	15,700.00		6.46

	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	28.48	199.36	38.47	274.55	1,129.68

6

Field name: 6

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 79 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,451.00 *ton*	Dry-weight		68.2	16,500.00	3,400.00	19,300.00		9.41

	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	18.37	192.74	39.72	225.45	1,099.23

6

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,240.00 *ton*	Dry-weight		67.6	12,200.00	2,600.00	15,700.00		6.63

	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	28.35	224.16	47.77	288.47	1,218.17

7

Field name: 7

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

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,488.00 *ton*	Dry-weight		68.2	15,800.00	3,700.00	19,900.00		8.46

	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	19.32	194.19	45.47	244.58	1,039.78

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,225.00 *ton*	Dry-weight		69.9	11,900.00	2,200.00	14,900.00		5.93

	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	28.90	207.01	38.27	259.19	1,031.55

8

Field name: 8

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

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/07/2023	1,495.00 *ton*	Dry-weight		68.0	16,500.00	3,800.00	18,900.00		8.41

	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	19.42	205.03	47.22	234.85	1,045.02

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	2,190.00 *ton*	Dry-weight		70.3	11,800.00	2,200.00	14,100.00		5.88

	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	28.44	199.35	37.17	238.21	993.38

NUTRIENT BUDGET

A. LAND APPLICATIONS

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

Field name: 1

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	63.50	14.23	111.51	1,290.07	2,306,895.00 *gal*
W3	Ground water	5.52	0.00	0.00	265.79	9,432,500.00 *gal*
Application event totals		69.02	14.23	111.51	1,555.86	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/14/2023	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	70.92	14.51	129.27	784.12	1,869,550.00 *gal*
W3	Ground water	5.45	0.00	0.00	262.24	9,306,650.00 *gal*
Application event totals		76.36	14.51	129.27	1,046.36	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	79.30	16.22	144.56	876.86	2,090,650.00 *gal*
W3	Ground water	5.89	0.00	0.00	283.61	10,065,000.00 *gal*
Application event totals		85.19	16.22	144.56	1,160.47	

1 - 06/05/2023: Corn, silage

Field name: 1

Crop: Corn, silage Plant date: 06/05/2023

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

1 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/18/2023	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
Lagoon	Process wastewater	73.05	14.40	135.80	393.64	3,965,200.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	24.77	11,426,500.00 *gal*
Application event totals		73.05	14.40	135.80	418.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	26.45	12,200,700.00 *gal*
Application event totals		0.00	0.00	0.00	26.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	100.50	21.62	59.40	628.53	3,186,520.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	21.03	9,700,000.00 *gal*
Application event totals		100.50	21.62	59.40	649.55	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W3	Ground water	6.43	0.00	0.00	309.58	10,986,520.00 *gal*
Application event totals		6.43	0.00	0.00	309.58	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	93.47	20.11	55.24	584.57	2,963,650.00 *gal*
W3	Ground water	5.33	0.00	0.00	256.44	9,100,650.00 *gal*
Application event totals		98.79	20.11	55.24	841.00	

1 - 06/05/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W3	Ground water	6.29	0.00	0.00	302.81	10,746,250.00 *gal*
Application event totals		6.29	0.00	0.00	302.81	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W3	Ground water	7.24	0.00	0.00	348.42	12,365,000.00 *gal*
Application event totals		7.24	0.00	0.00	348.42	

2 - 11/14/2022: Wheat, silage, soft dough

Field name: 2

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/25/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	76.95	17.24	135.12	1,563.26	2,686,500.00 *gal*
W3	Ground water	5.95	0.00	0.00	286.32	9,765,200.00 *gal*
Application event totals		82.90	17.24	135.12	1,849.58	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	93.77	19.18	170.92	1,036.78	2,375,650.00 *gal*
W3	Ground water	5.58	0.00	0.00	268.73	9,165,200.00 *gal*
Application event totals		99.35	19.18	170.92	1,305.51	

2 - 11/14/2022: Wheat, silage, soft dough

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	88.27	18.06	160.91	976.06	2,236,500.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	19.64	8,706,580.00 *gal*
Application event totals		88.27	18.06	160.91	995.69	

2 - 06/10/2023: Corn, silage

Field name: 2

Crop: Corn, silage Plant date: 06/10/2023

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.91	13.97	131.81	382.08	3,698,800.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	24.26	10,756,200.00 *gal*
Application event totals		70.91	13.97	131.81	406.34	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	26.52	11,759,500.00 *gal*
Application event totals		0.00	0.00	0.00	26.52	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	110.88	23.85	65.54	693.47	3,378,788.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	21.90	9,709,850.00 *gal*
Application event totals		110.88	23.85	65.54	715.37	

2 - 06/10/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	85.62	18.42	50.60	535.47	2,608,950.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	20.54	9,106,580.00 *gal*
Application event totals		85.62	18.42	50.60	556.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W3	Ground water	7.00	0.00	0.00	337.14	11,498,665.00 *gal*
Application event totals		7.00	0.00	0.00	337.14	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W3	Ground water	6.86	0.00	0.00	330.40	11,268,500.00 *gal*
Application event totals		6.86	0.00	0.00	330.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	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
W3	Ground water	6.55	0.00	0.00	315.48	10,759,850.00 *gal*
Application event totals		6.55	0.00	0.00	315.48	

3 - 06/01/2022: Alfalfa, hay

Field name: 3

Crop: Alfalfa, hay Plant date: 06/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/24/2023	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
Pixley I.D.	Surface water	0.00	0.00	0.00	23.10	6,504,560.00 *gal*
Application event totals		0.00	0.00	0.00	23.10	

3 - 06/01/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	24.86	7,000,000.00 *gal*
Application event totals		0.00	0.00	0.00	24.86	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	26.10	7,350,000.00 *gal*
Application event totals		0.00	0.00	0.00	26.10	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W3	Ground water	7.00	0.00	0.00	337.00	7,300,000.00 *gal*
Application event totals		7.00	0.00	0.00	337.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W3	Ground water	7.05	0.00	0.00	339.30	7,350,000.00 *gal*
Application event totals		7.05	0.00	0.00	339.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
W3	Ground water	6.33	0.00	0.00	304.68	6,600,000.00 *gal*
Application event totals		6.33	0.00	0.00	304.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	81.98	12.15	101.15	841.34	1,350,000.00 *gal*
W3	Ground water	5.85	0.00	0.00	281.62	6,100,500.00 *gal*
Application event totals		87.83	12.15	101.15	1,122.96	

4 - 11/10/2016: Pasture

Field name: 4

Crop: Pasture Plant date: 11/10/2016

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/01/2023	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
Pixley I.D.	Surface water	0.00	0.00	0.00	113.80	15,000,000.00 *gal*
Application event totals		0.00	0.00	0.00	113.80	

5 - 11/16/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	53.92	12.08	94.69	1,095.47	2,009,800.00 *gal*
W5	Ground water	13.68	0.00	0.00	581.75	10,198,650.00 *gal*
Application event totals		67.61	12.08	94.69	1,677.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.10	18.23	162.41	985.15	2,409,860.00 *gal*
W5	Ground water	12.99	0.00	0.00	552.22	9,680,900.00 *gal*
Application event totals		102.08	18.23	162.41	1,537.36	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.49	14.42	128.49	779.41	1,906,580.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	20.93	9,906,500.00 *gal*
Application event totals		70.49	14.42	128.49	800.34	

5 - 06/05/2023: Corn, silage

Field name: 5

Crop: Corn, silage Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.28	11.68	110.19	319.40	3,301,000.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	2.32	1,100,000.00 *gal*
Application event totals		59.28	11.68	110.19	321.73	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	24.82	11,750,000.00 *gal*
Application event totals		0.00	0.00	0.00	24.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	86.03	18.51	50.85	538.05	2,798,650.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	24.30	11,500,000.00 *gal*
Application event totals		86.03	18.51	50.85	562.34	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	24.19	11,450,000.00 *gal*
Application event totals		0.00	0.00	0.00	24.19	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.31	16.20	44.51	471.02	2,450,000.00 *gal*
W5	Ground water	13.28	0.00	0.00	564.71	9,900,000.00 *gal*
Application event totals		88.59	16.20	44.51	1,035.73	

5 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	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
W5	Ground water	15.28	0.00	0.00	649.73	11,390,500.00 *gal*
Application event totals		15.28	0.00	0.00	649.73	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W5	Ground water	15.03	0.00	0.00	638.90	11,200,500.00 *gal*
Application event totals		15.03	0.00	0.00	638.90	

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

Field name: 6

Crop: Wheat, silage, soft dough Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/23/2022	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	69.94	15.67	122.80	1,420.76	2,606,580.00 *gal*
W5	Ground water	12.89	0.00	0.00	547.97	9,606,500.00 *gal*
Application event totals		82.82	15.67	122.80	1,968.73	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.90	15.94	141.99	861.30	2,106,895.00 *gal*
W5	Ground water	13.96	0.00	0.00	593.74	10,408,800.00 *gal*
Application event totals		91.86	15.94	141.99	1,455.03	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	69.13	14.14	126.02	764.41	1,869,900.00 *gal*
W5	Ground water	12.49	0.00	0.00	530.86	9,306,500.00 *gal*
Application event totals		81.62	14.14	126.02	1,295.27	

6 - 06/10/2023: Corn, silage

Field name: 6

Crop: Corn, silage Plant date: 06/10/2023

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	68.06	13.41	126.50	366.70	3,789,800.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	23.03	10,899,650.00 *gal*
Application event totals		68.06	13.41	126.50	389.73	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	23.89	11,306,950.00 *gal*
Application event totals		0.00	0.00	0.00	23.89	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	22.83	10,806,500.00 *gal*
Application event totals		0.00	0.00	0.00	22.83	

6 - 06/10/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	97.03	20.87	57.35	606.84	3,156,500.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	23.44	11,095,650.00 *gal*
Application event totals		97.03	20.87	57.35	630.28	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.08	19.16	52.65	557.15	2,898,000.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	23.89	11,306,500.00 *gal*
Application event totals		89.08	19.16	52.65	581.03	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W5	Ground water	15.84	0.00	0.00	673.46	11,806,500.00 *gal*
Application event totals		15.84	0.00	0.00	673.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/06/2023	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
W5	Ground water	15.57	0.00	0.00	662.20	11,608,950.00 *gal*
Application event totals		15.57	0.00	0.00	662.20	

7 - 11/22/2022: Wheat, silage, soft dough

Field name: 7

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

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

7 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	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	67.88	15.21	119.19	1,378.93	2,465,800.00 *gal*
W5	Ground water	13.09	0.00	0.00	556.48	9,508,660.00 *gal*
Application event totals		80.97	15.21	119.19	1,935.41	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/30/2023	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	75.35	15.41	137.36	833.17	1,986,500.00 *gal*
W5	Ground water	12.95	0.00	0.00	550.52	9,406,860.00 *gal*
Application event totals		88.30	15.41	137.36	1,383.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.33	14.80	131.85	799.78	1,906,880.00 *gal*
W5	Ground water	12.53	0.00	0.00	532.94	9,106,500.00 *gal*
Application event totals		84.87	14.80	131.85	1,332.72	

7 - 06/15/2023: Corn, silage

Field name: 7

Crop: Corn, silage Plant date: 06/15/2023

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	60.96	12.01	113.32	328.47	3,308,800.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	21.59	9,961,560.00 *gal*
Application event totals		60.96	12.01	113.32	350.07	

7 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	25.50	11,766,000.00 *gal*
Application event totals		0.00	0.00	0.00	25.50	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	24.64	11,369,900.00 *gal*
Application event totals		0.00	0.00	0.00	24.64	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.27	17.70	48.62	514.51	2,608,500.00 *gal*
W5	Ground water	15.15	0.00	0.00	644.17	11,006,995.00 *gal*
Application event totals		97.42	17.70	48.62	1,158.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.56	15.61	42.89	453.82	2,300,800.00 *gal*
W5	Ground water	14.55	0.00	0.00	618.59	10,569,890.00 *gal*
Application event totals		87.11	15.61	42.89	1,072.41	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W5	Ground water	15.70	0.00	0.00	667.66	11,408,510.00 *gal*
Application event totals		15.70	0.00	0.00	667.66	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/12/2023	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
W5	Ground water	15.90	0.00	0.00	676.08	11,552,300.00 *gal*
Application event totals		15.90	0.00	0.00	676.08	

8 - 11/20/2022: Wheat, silage, soft dough

Field name: 8

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/01/2022	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	69.00	15.46	121.15	1,401.69	2,506,500.00 *gal*
W5	Ground water	12.26	0.00	0.00	521.24	8,906,600.00 *gal*
Application event totals		81.26	15.46	121.15	1,922.94	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.33	16.02	142.79	866.12	2,065,060.00 *gal*
W5	Ground water	13.75	0.00	0.00	584.62	9,989,562.00 *gal*
Application event totals		92.08	16.02	142.79	1,450.75	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	74.38	15.22	135.58	822.39	1,960,800.00 *gal*
W5	Ground water	13.50	0.00	0.00	573.91	9,806,500.00 *gal*
Application event totals		87.87	15.22	135.58	1,396.30	

8 - 06/05/2023: Corn, silage

Field name: 8

Crop: Corn, silage Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	60.93	12.01	113.25	328.28	3,306,880.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	21.47	9,906,804.00 *gal*
Application event totals		60.93	12.01	113.25	349.76	

8 - 06/05/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	22.99	10,607,310.00 *gal*
Application event totals		0.00	0.00	0.00	22.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	85.46	18.38	50.51	534.52	2,709,900.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	22.11	10,198,950.00 *gal*
Application event totals		85.46	18.38	50.51	556.62	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley I.D.	Surface water	0.00	0.00	0.00	23.63	10,899,890.00 *gal*
Application event totals		0.00	0.00	0.00	23.63	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.30	13.62	37.41	395.87	2,006,980.00 *gal*
Pixley I.D.	Surface water	0.00	0.00	0.00	22.77	10,506,950.00 *gal*
Application event totals		68.30	13.62	37.41	418.64	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W5	Ground water	14.04	0.00	0.00	596.87	10,198,900.00 *gal*
Application event totals		14.04	0.00	0.00	596.87	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W5	Ground water	12.95	0.00	0.00	550.63	9,408,650.00 *gal*
Application event totals		12.95	0.00	0.00	550.63	

8 - 06/05/2023: Corn, silage

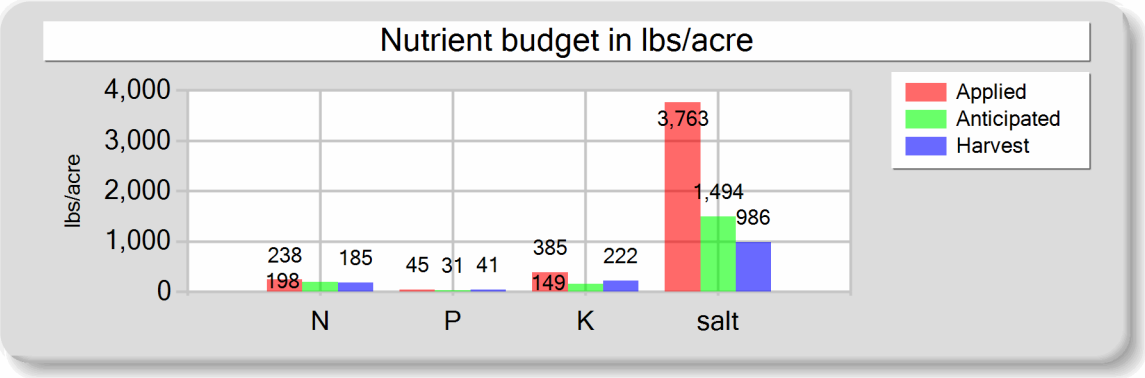
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W5	Ground water	12.67	0.00	0.00	538.91	9,208,500.00 *gal*
Application event totals		12.67	0.00	0.00	538.91	

B. NUTRIENT BUDGET

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

Field name: 1 Crop: Wheat, silage, soft dough Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	213.72	44.96	385.33	2,951.05
Fresh water	16.86	0.00	0.00	811.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	237.58	44.96	385.33	3,762.69
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	185.40	41.07	221.77	985.65
Nutrient balance	52.18	3.89	163.56	2,777.03
Applied to removed ratio	1.28	1.09	1.74	3.82

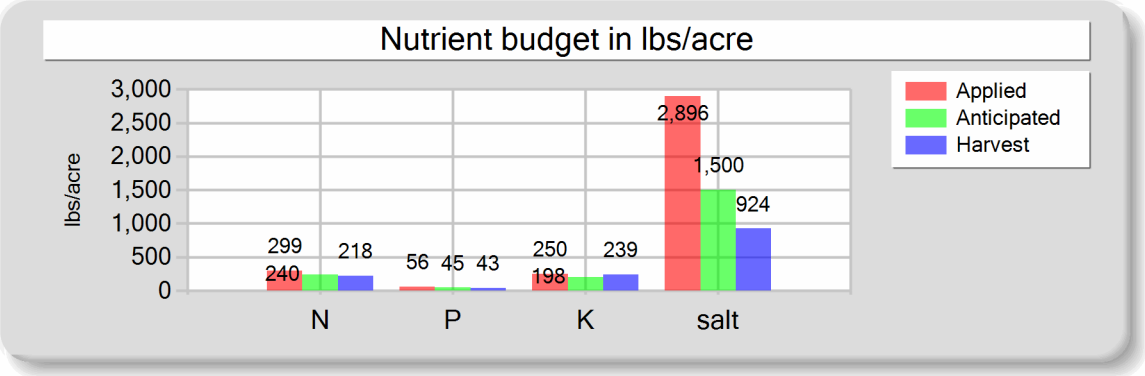
Fresh water applied	
28,804,150.00	*gallons*
1,060.76	*acre-inches*
13.78	*inches/acre*

Process wastewater applied	
6,267,095.00	*gallons*
230.80	*acre-inches*
3.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

1 - 06/05/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	267.02	56.12	250.44	1,606.73
Fresh water	25.28	0.00	0.00	1,289.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	299.30	56.12	250.44	2,896.21
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	218.47	42.58	238.83	923.86
Nutrient balance	80.83	13.54	11.61	1,972.35
Applied to removed ratio	1.37	1.32	1.05	3.13

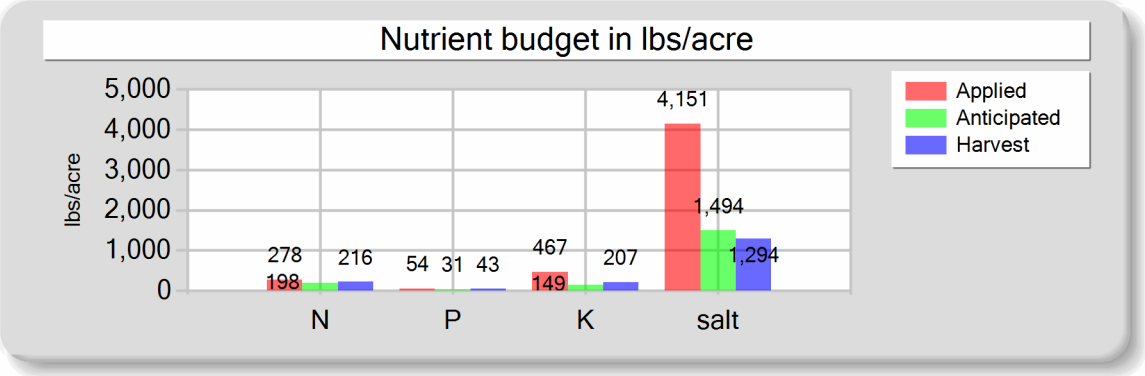
Fresh water applied	
76,525,620.00	*gallons*
2,818.18	*acre-inches*
36.60	*inches/acre*

Process wastewater applied	
10,115,370.00	*gallons*
372.51	*acre-inches*
4.84	*inches/acre*

Total harvests for the crop	
1	*harvests*

2 - 11/14/2022: Wheat, silage, soft dough

Field name: 2 Crop: Wheat, silage, soft dough Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	258.99	54.48	466.95	3,576.10
Fresh water	11.53	0.00	0.00	574.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	277.52	54.48	466.95	4,150.78
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	216.31	43.26	206.54	1,293.66
Nutrient balance	61.21	11.22	260.41	2,857.12
Applied to removed ratio	1.28	1.26	2.26	3.21

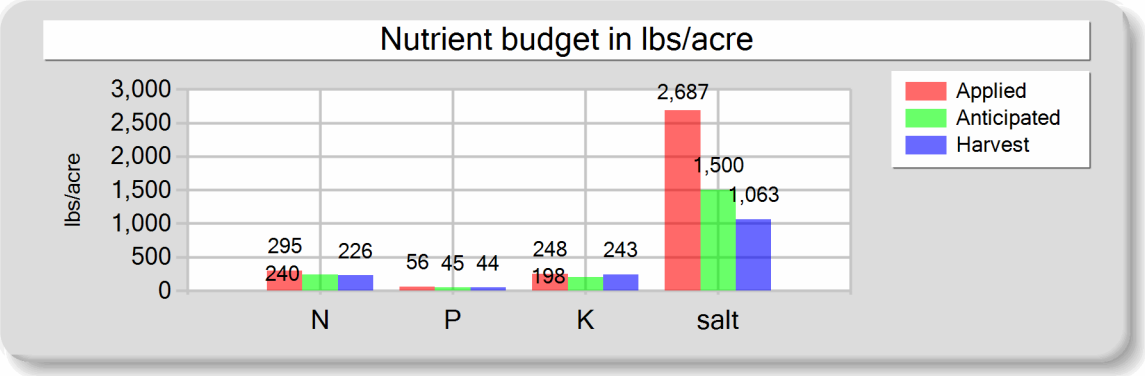
Fresh water applied	
27,636,980.00	*gallons*
1,017.78	*acre-inches*
13.75	*inches/acre*

Process wastewater applied	
7,298,650.00	*gallons*
268.78	*acre-inches*
3.63	*inches/acre*

Total harvests for the crop	
1	*harvests*

2 - 06/10/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 06/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	267.40	56.24	247.95	1,611.01
Fresh water	20.42	0.00	0.00	1,076.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.82	56.24	247.95	2,687.25
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	225.54	43.96	242.74	1,062.71
Nutrient balance	69.28	12.28	5.21	1,624.54
Applied to removed ratio	1.31	1.28	1.02	2.53

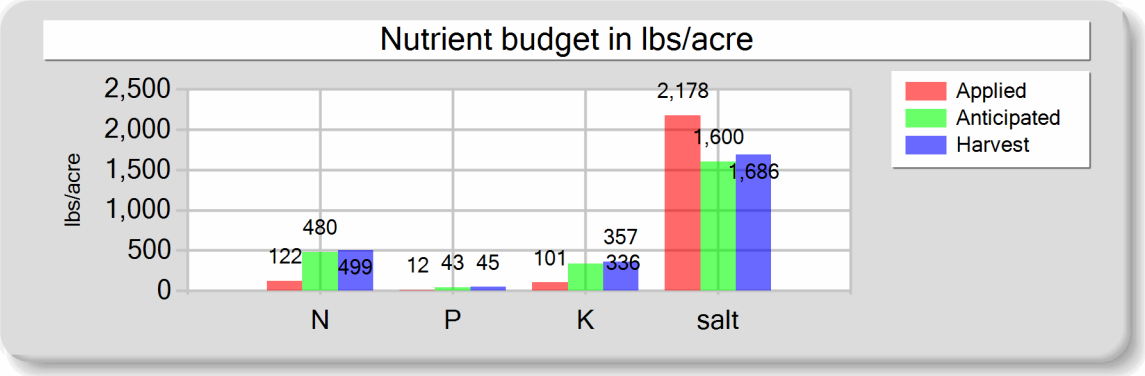
Fresh water applied	
74,859,145.00	*gallons*
2,756.81	*acre-inches*
37.25	*inches/acre*

Process wastewater applied	
9,686,538.00	*gallons*
356.72	*acre-inches*
4.82	*inches/acre*

Total harvests for the crop	
1	*harvests*

3 - 06/01/2022: Alfalfa, hay

Field name: 3 Crop: Alfalfa, hay Plant date: 06/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	81.98	12.15	101.15	841.34
Fresh water	26.22	0.00	0.00	1,336.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	122.20	12.15	101.15	2,178.00
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00
Actual crop nutrient removal	499.47	45.26	357.43	1,685.72
Nutrient balance	-377.27	-33.11	-256.28	492.28
Applied to removed ratio	0.24	0.27	0.28	1.29

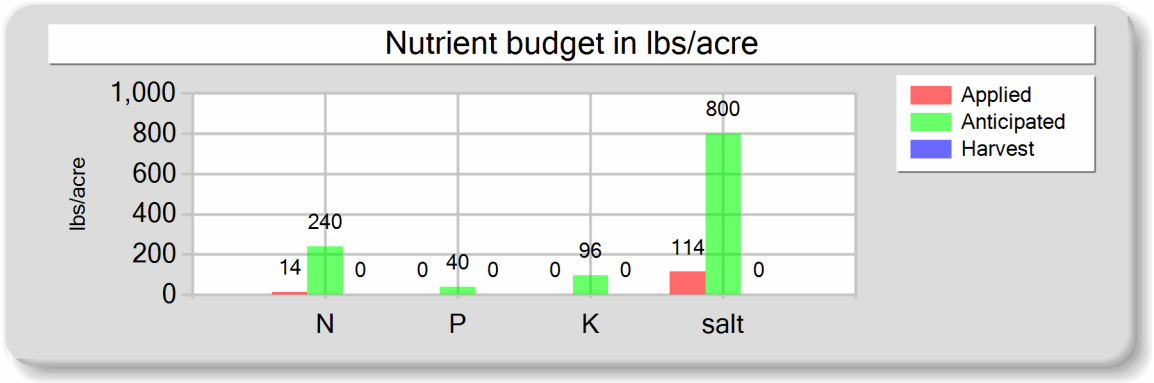
Fresh water applied	
48,205,060.00	*gallons*
1,775.23	*acre-inches*
37.77	*inches/acre*

Process wastewater applied	
1,350,000.00	*gallons*
49.72	*acre-inches*
1.06	*inches/acre*

Total harvests for the crop	
1	*harvests*

4 - 11/10/2016: Pasture

Field name: 4 Crop: Pasture Plant date: 11/10/2016



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	113.80
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	113.80
Anticipated crop nutrient removal	240.00	40.00	96.00	800.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	14.00	0.00	0.00	113.80
Applied to removed ratio	0.00	0.00	0.00	0.00

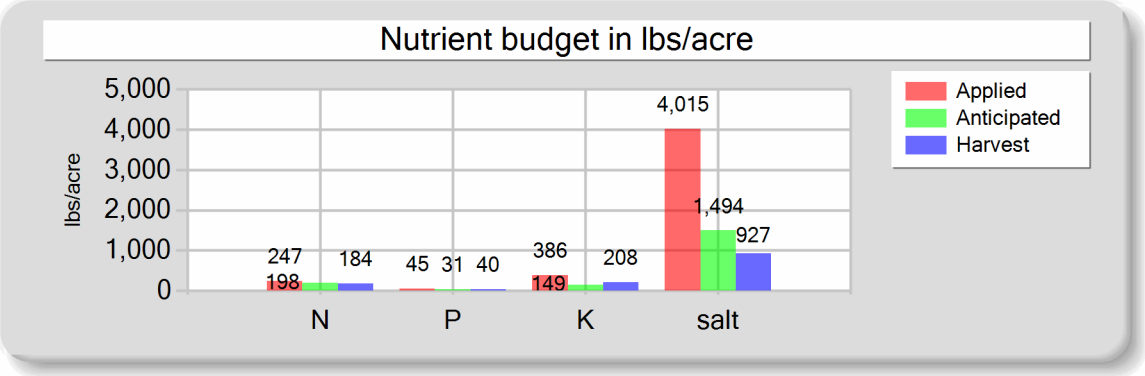
Fresh water applied	
15,000,000.00	*gallons*
552.40	*acre-inches*
25.11	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

5 - 11/16/2022: Wheat, silage, soft dough

Field name: 5 Crop: Wheat, silage, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	213.51	44.73	385.59	2,860.03
Fresh water	26.67	0.00	0.00	1,154.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	247.18	44.73	385.59	4,014.93
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	183.62	40.20	207.52	926.78
Nutrient balance	63.56	4.53	178.07	3,088.15
Applied to removed ratio	1.35	1.11	1.86	4.33

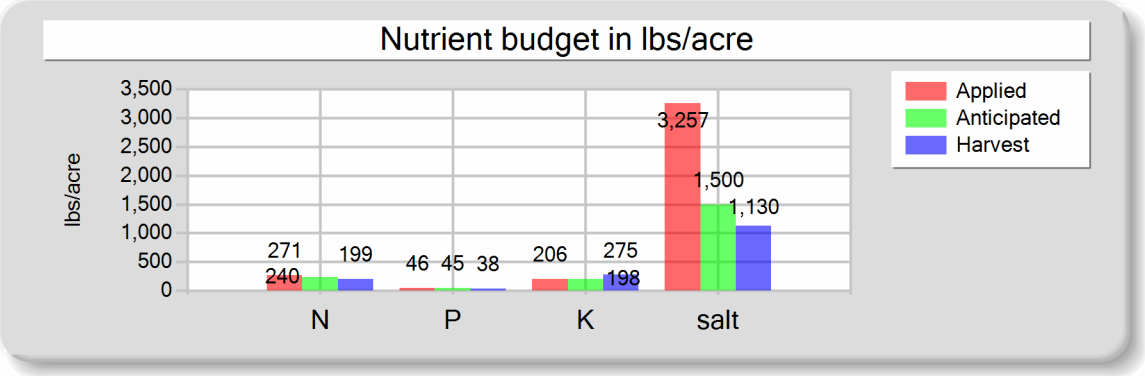
Fresh water applied	
29,786,050.00	*gallons*
1,096.92	*acre-inches*
13.89	*inches/acre*

Process wastewater applied	
6,326,240.00	*gallons*
232.97	*acre-inches*
2.95	*inches/acre*

Total harvests for the crop	
1	*harvests*

5 - 06/05/2023: Corn, silage

Field name: 5 Crop: Corn, silage Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	220.62	46.39	205.55	1,328.47
Fresh water	43.59	0.00	0.00	1,928.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	271.21	46.39	205.55	3,257.44
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	199.36	38.47	274.55	1,129.68
Nutrient balance	71.85	7.92	-69.00	2,127.76
Applied to removed ratio	1.36	1.21	0.75	2.88

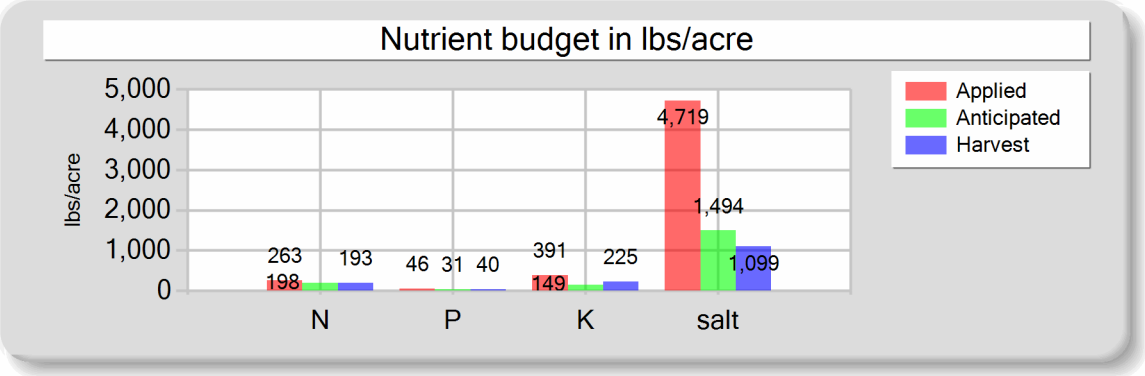
Fresh water applied	
68,291,000.00	*gallons*
2,514.93	*acre-inches*
31.83	*inches/acre*

Process wastewater applied	
8,549,650.00	*gallons*
314.85	*acre-inches*
3.99	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field name: 6 Crop: Wheat, silage, soft dough Plant date: 11/13/2022



	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	216.96	45.74	390.81	3,046.47
Fresh water	39.34	0.00	0.00	1,672.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	263.30	45.74	390.81	4,719.04
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	192.74	39.72	225.45	1,099.23
Nutrient balance	70.56	6.03	165.36	3,619.81
Applied to removed ratio	1.37	1.15	1.73	4.29

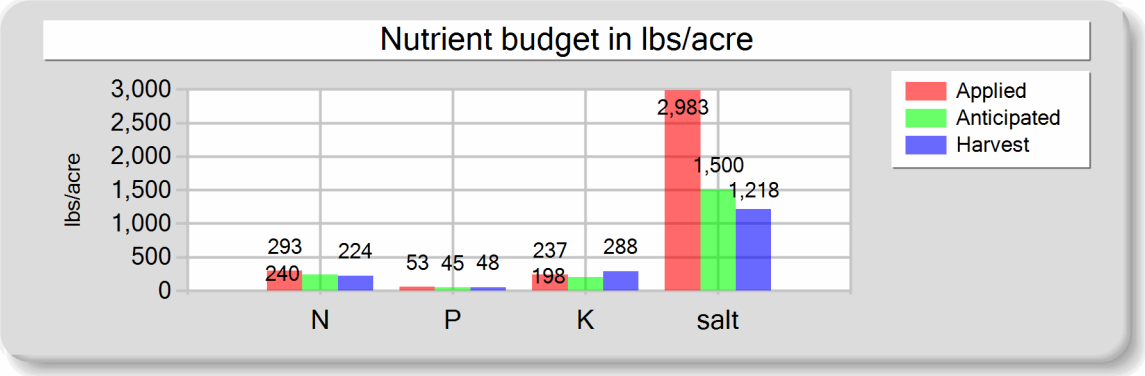
Fresh water applied	
29,321,800.00	*gallons*
1,079.82	*acre-inches*
13.67	*inches/acre*

Process wastewater applied	
6,583,375.00	*gallons*
242.44	*acre-inches*
3.07	*inches/acre*

Total harvests for the crop	
1	*harvests*

6 - 06/10/2023: Corn, silage

Field name: 6 Crop: Corn, silage Plant date: 06/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	254.17	53.45	236.51	1,530.69
Fresh water	31.41	0.00	0.00	1,452.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.58	53.45	236.51	2,983.42
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	224.16	47.77	288.47	1,218.17
Nutrient balance	68.42	5.68	-51.96	1,765.25
Applied to removed ratio	1.31	1.12	0.82	2.45

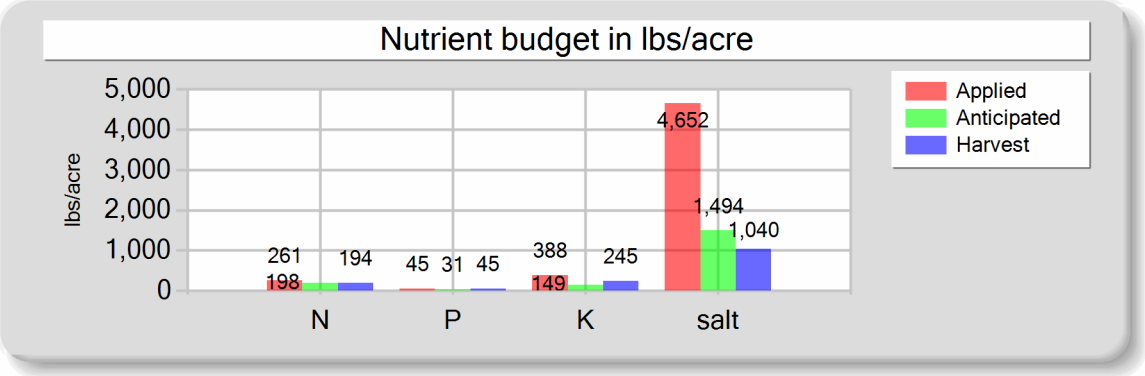
Fresh water applied	
78,830,700.00	*gallons*
2,903.07	*acre-inches*
36.75	*inches/acre*

Process wastewater applied	
9,844,300.00	*gallons*
362.53	*acre-inches*
4.59	*inches/acre*

Total harvests for the crop	
1	*harvests*

7 - 11/22/2022: Wheat, silage, soft dough

Field name: 7 Crop: Wheat, silage, soft dough Plant date: 11/22/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	215.56	45.42	388.39	3,011.88
Fresh water	38.57	0.00	0.00	1,639.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	261.13	45.42	388.39	4,651.83
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	194.19	45.47	244.58	1,039.78
Nutrient balance	66.94	-0.06	143.81	3,612.05
Applied to removed ratio	1.34	1.00	1.59	4.47

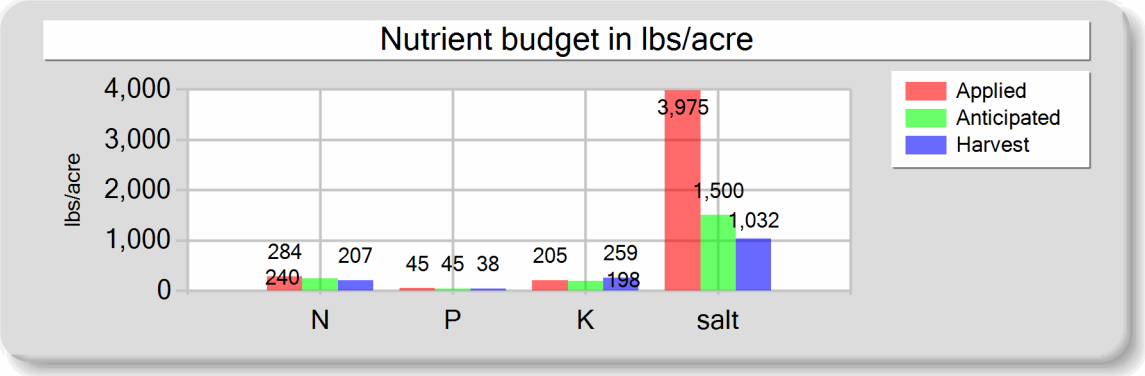
Fresh water applied	
28,022,020.00	*gallons*
1,031.96	*acre-inches*
13.40	*inches/acre*

Process wastewater applied	
6,359,180.00	*gallons*
234.19	*acre-inches*
3.04	*inches/acre*

Total harvests for the crop	
1	*harvests*

7 - 06/15/2023: Corn, silage

Field name: 7 Crop: Corn, silage Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	215.79	45.32	204.83	1,296.81
Fresh water	61.30	0.00	0.00	2,678.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.09	45.32	204.83	3,975.05
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	207.01	38.27	259.19	1,031.55
Nutrient balance	77.08	7.05	-54.36	2,943.50
Applied to removed ratio	1.37	1.18	0.79	3.85

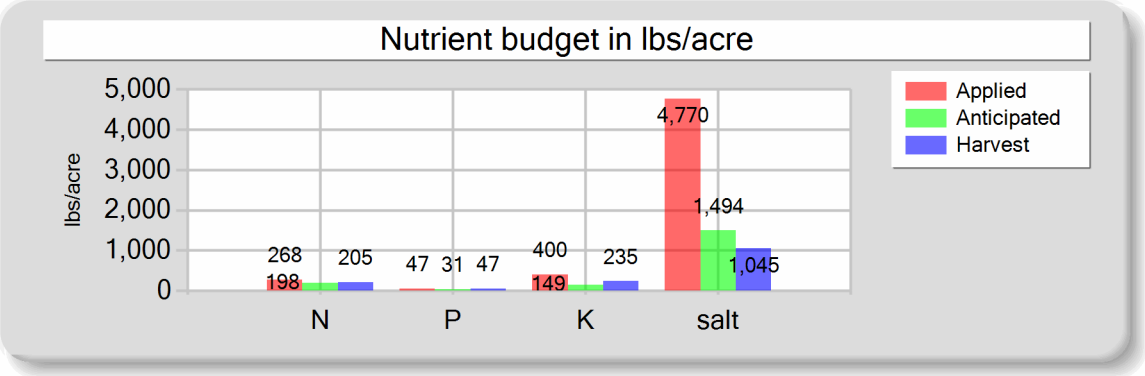
Fresh water applied	
77,635,155.00	*gallons*
2,859.04	*acre-inches*
37.13	*inches/acre*

Process wastewater applied	
8,218,100.00	*gallons*
302.64	*acre-inches*
3.93	*inches/acre*

Total harvests for the crop	
1	*harvests*

8 - 11/20/2022: Wheat, silage, soft dough

Field name: 8 Crop: Wheat, silage, soft dough Plant date: 11/20/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	221.71	46.70	399.52	3,090.21
Fresh water	39.51	0.00	0.00	1,679.78
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	268.21	46.70	399.52	4,769.99
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	205.03	47.22	234.85	1,045.02
Nutrient balance	63.18	-0.52	164.67	3,724.96
Applied to removed ratio	1.31	0.99	1.70	4.56

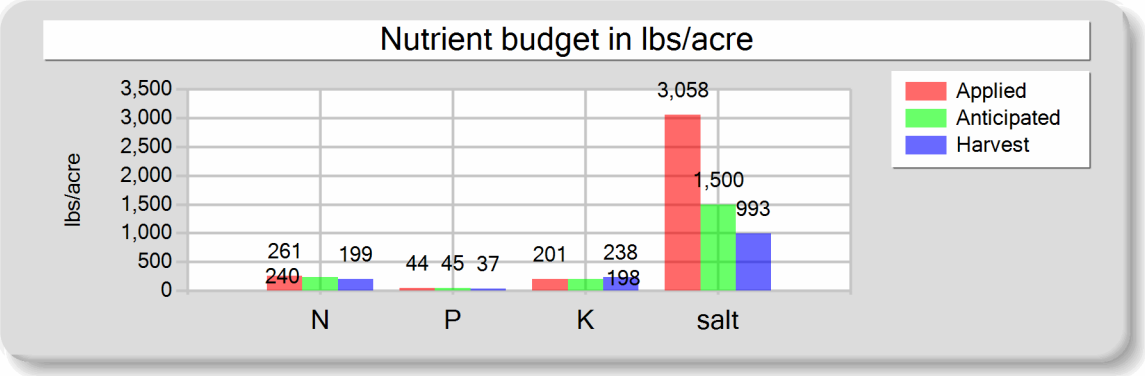
Fresh water applied	
28,702,662.00	*gallons*
1,057.02	*acre-inches*
13.73	*inches/acre*

Process wastewater applied	
6,532,360.00	*gallons*
240.56	*acre-inches*
3.12	*inches/acre*

Total harvests for the crop	
1	*harvests*

8 - 06/05/2023: Corn, silage

Field name: 8 Crop: Corn, silage Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	214.69	44.01	201.18	1,258.67
Fresh water	39.66	0.00	0.00	1,799.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	261.35	44.01	201.18	3,058.05
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	199.35	37.17	238.21	993.38
Nutrient balance	62.00	6.84	-37.03	2,064.67
Applied to removed ratio	1.31	1.18	0.84	3.08

Fresh water applied	
80,935,954.00	*gallons*
2,980.60	*acre-inches*
38.71	*inches/acre*

Process wastewater applied	
8,023,760.00	*gallons*
295.49	*acre-inches*
3.84	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

Manure

Sample and source description: Manure

Sample date: 10/24/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 20.7 %

	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	28,800.00	7,800.00	31,800.00							
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: 5.7 %

	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	22,500.00	7,600.00	24,600.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

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

Moisture: 8.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,500.00	7,400.00	19,200.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

Lagoon

Sample and source description: Lagoon

Sample date: 11/24/2022 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	254.00	194.00	0.00	0.00	56.90	446.00								7,770.00	5,160
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 03/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	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	350.00	188.00	0.00	0.00	71.60	638.00								5,830.00	3,870
DL	10.00	2.00	0.10	2.00	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	170.00	119.00	0.00	0.00	33.50	316.00								1,380.00	916
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 08/07/2023 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	291.00	141.00	0.00	0.00	62.60	172.00								2,740.00	1,820
DL	10.00	2.00	0.10	2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 11/09/2023 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	342.00	339.00	0.00	0.00	50.70	422.00								5,290.00	3,510
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

Pixley I.D.

Canal water

Sample description: Canal water

Sample date: 06/23/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00								42.00	20
DL	0.50		0.40								1.00	20

W20

W20

Sample description: W20

Sample date: 12/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			11.60								892.00	
DL			0.40								1.00	

W3

W3

W3

Sample description: W3

Sample date: 08/30/2023 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	5.40	0.00	5.40	31.00	2.00	57.00	100.00	0.00	12.60	52.00	447.00	260
DL	0.20	0.20	0.20	1.00	1.00	1.00	10.00	10.00	0.17	1.00	1.00	20

W5

W5

Sample description: W5

Sample date: 08/30/2023 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	12.70	0.00	12.70								782.00	540
DL	0.20	0.20	0.20								1.00	20

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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

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

1

Sample and source description: 1

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,800.00	3,500.00	18,900.00		8.40
DL	500.00	200.00	200.00		0.05

1 - 06/05/2023: Corn, silage

1

Sample and source description: 1

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	2,300.00	12,900.00		4.99
DL	500.00	200.00	200.00		0.05

2 - 11/14/2022: Wheat, silage, soft dough

2

Sample and source description: 2

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,500.00	3,100.00	14,800.00		9.27
DL	500.00	200.00	200.00		0.05

2 - 06/10/2023: Corn, silage

2

Sample and source description: 2

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	2,300.00	12,700.00		5.56
DL	500.00	200.00	200.00		0.05

3 - 06/01/2022: Alfalfa, hay

3

Sample and source description: 3

Sample date: 11/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 8.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,000.00	2,900.00	22,900.00		10.80
DL	500.00	200.00	200.00		0.05

5 - 11/16/2022: Wheat, silage, soft dough

5

Sample and source description: 5

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

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,900.00	3,700.00	19,100.00		8.53
DL	500.00	200.00	200.00		0.05

5 - 06/05/2023: Corn, silage

5

Sample and source description: 5

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

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	2,200.00	15,700.00		6.46
DL	500.00	200.00	200.00		0.05

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

6

Sample and source description: 6

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	3,400.00	19,300.00		9.41
DL	500.00	200.00	200.00		0.05

6 - 06/10/2023: Corn, silage

6

Sample and source description: 6

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,200.00	2,600.00	15,700.00		6.63
DL	500.00	200.00	200.00		0.05

7 - 11/22/2022: Wheat, silage, soft dough

7

Sample and source description: 7

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,800.00	3,700.00	19,900.00		8.46
DL	500.00	200.00	200.00		0.05

7 - 06/15/2023: Corn, silage

7

Sample and source description: 7

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

Moisture: 69.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	2,200.00	14,900.00		5.93
DL	500.00	200.00	200.00		0.05

8 - 11/20/2022: Wheat, silage, soft dough

8

Sample and source description: 8

Sample date: 05/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	3,800.00	18,900.00		8.41
DL	500.00	200.00	200.00		0.05

8 - 06/05/2023: Corn, silage

8

Sample and source description: 8

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	2,200.00	14,100.00		5.88
DL	500.00	200.00	200.00		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

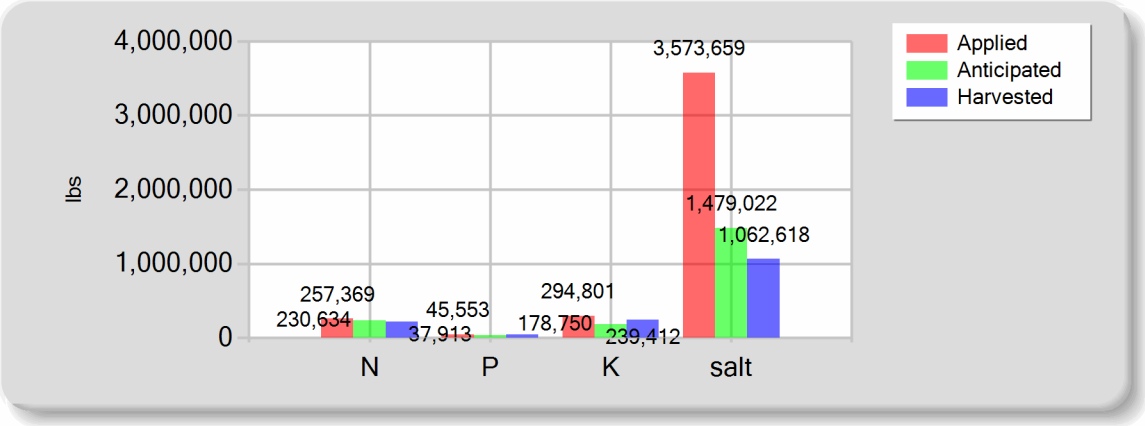
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

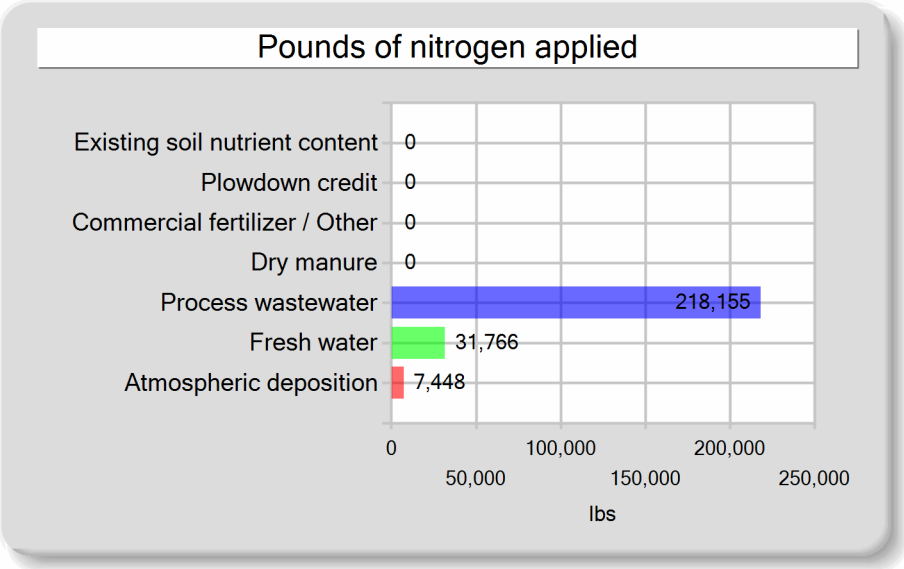
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

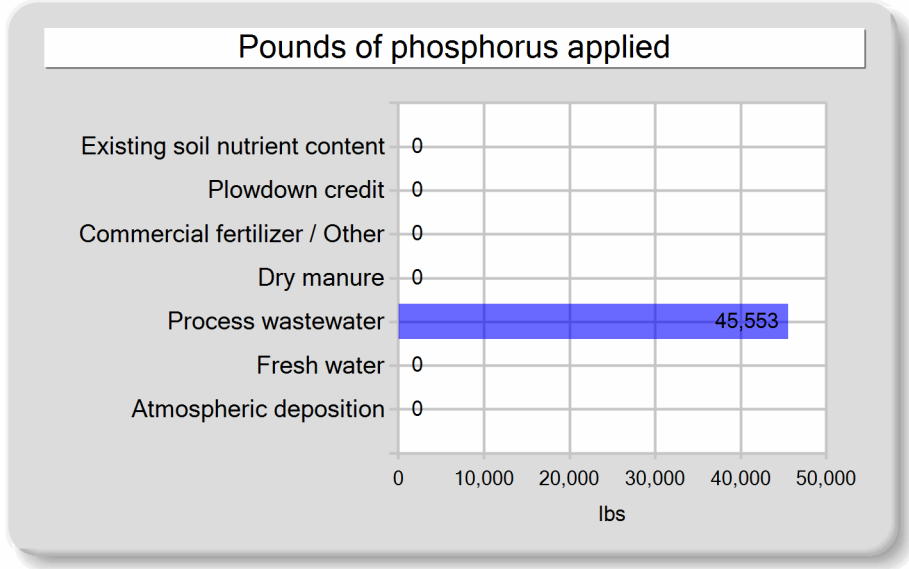
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	218,154.52	45,552.67	294,800.98	2,133,457.77
Fresh water	31,766.43	0.00	0.00	1,440,200.80
Atmospheric deposition	7,448.00	0.00	0.00	0.00
Total nutrients applied	257,368.95	45,552.67	294,800.98	3,573,658.57
Anticipated crop nutrient removal	230,634.00	37,913.20	178,750.20	1,479,022.00
Actual crop nutrient removal	212,489.17	41,095.90	239,412.34	1,062,617.80
Nutrient balance	44,879.78	4,456.77	55,388.64	2,511,040.77
Applied to removed ratio	1.21	1.11	1.23	3.36

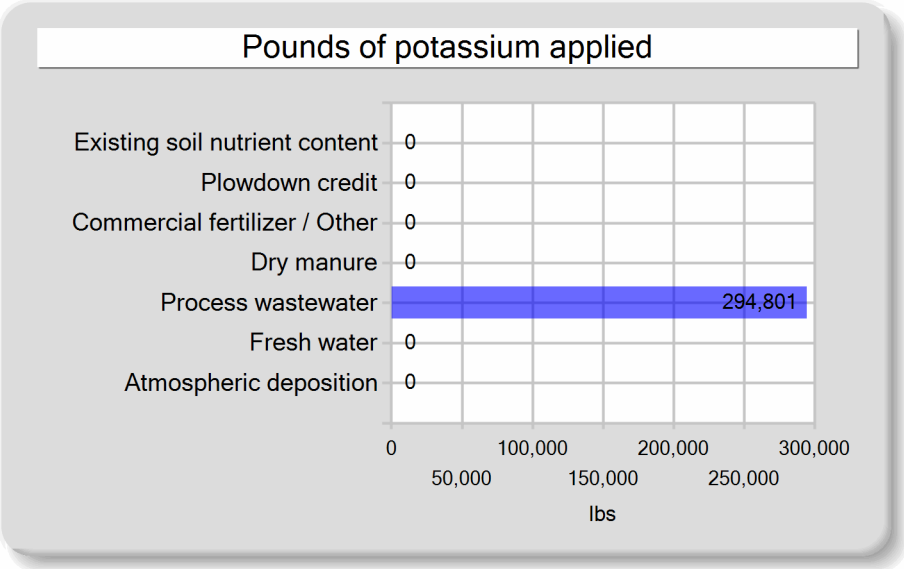
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

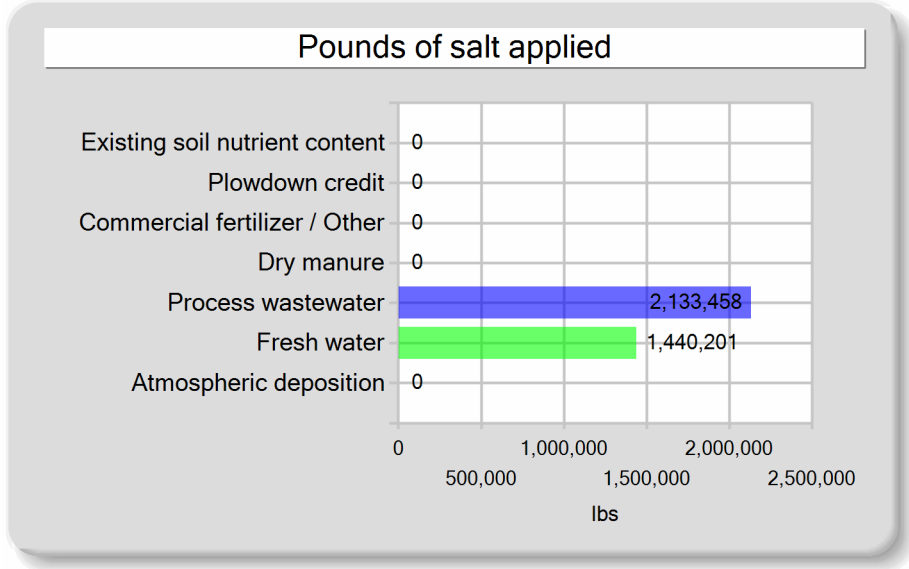


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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

ADDITIONAL NOTES

A. NOTES

~ Wells W1, W1A, W2, W4, W7, W8, and W15 were out of Service in 2023.

~ Field 4 is pasture and didn't have a harvest or manure applications.

ANNUAL REPORT VALIDATION INFORMATION

A. VALIDATION ERRORS

The following sections contain validation errors and should be reviewed before submitting the Annual Report :

1. Harvest Events

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Leslie Souza	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6/25/24	
DATE	DATE

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 11, 2023

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

Lab No. : **VI 2344189**
Customer No. : **4019696**
Reference : **3042**

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Pixley I.D.	06/23/2023	06/23/2023	VI 2344189-001	AGW

Sampling and Receipt Information:

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

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

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-07-11

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July 11, 2023

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

Description : Pixley I.D.
Project : Pixley I.D.

Lab No. : VI 2344189-001
Customer No. : 4019696
Reference : 3042
Sampled On : June 23, 2023 at 09:00
Sampled By : Klay
Received On : June 23, 2023 at 10:28
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:47	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:36	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/07/2023	19:47	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:36	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:47	lcr
Conductivity	42	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	22:11	sta
Solids, Total Dissolved (TDS)	20	20	mg/L		1		06/27/2023	12:45	ctl	SM 2540 C	06/28/2023	11:35	ctl

DQF Flags Definition:
U Constituent results were non-detect.

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

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July 11, 2023
Sentry Ag Service

Lab No. : VI 2344189
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344352-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	06/27/2023:207083CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	101%	90-110	
		(STK2338352-001)	Dup	mg/L		3.55%	5	
		(STK2338352-001)	Dup	mg/L		4.96%	5	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	102%	73-124	
			MS	mg/L	12.00	89.5%	54-136	
		(VI 2343914-005)	MSD	mg/L	12.00	96.2%	54-136	
			MSRPD	mg/L		6.8%	≤27	
			MS	mg/L	12.00	97.0%	54-136	
		(VI 2343914-006)	MSD	mg/L	12.00	98.6%	54-136	
			MSRPD	mg/L		1.6%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/28/2023:207139LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	98.6%	80-120	
			MS	mg/L	5.609	98.8%	66-125	
		(SP 2310989-001)	MSD	mg/L	5.609	98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/28/2023:207139LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	98.6%	80-120	
			MS	mg/L	5.609	98.8%	66-125	
		(SP 2310989-001)	MSD	mg/L	5.609	98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	

Definition

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

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Laboratory Analysis Work Order 2344189

3042

SITE NAME: Pixley I.D.

LABORATORY: VT | FGL 4-19696

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

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO_3N (Dom)
- W2 EC, NO_3N, TDS, TN (Irr)
- W3 NH_4-N (Ammonium)
- W4 EC, NO_3N, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)
- W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)
- W6 NO_3N, NO_2 (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)
- W8 Other: _____

Plant Tissue

- P1 TN, NO_3N, PO_4P, 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, NH_4N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S
- S2 S1 + CEC, CaCO3, OM, C:N, TN
- S3 NO_3N, NH_4N
- S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS NH_3N *	pH	Temp
1	Pixley I.D.	Canal	W2	6/23/23 9:00	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 sampes, please note below.

NOTES: GLS 6/24/23 1634

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[signature]	SAS		6/23/23 10:28
2nd	[signature]	FGL	6.23.2023 1028	
3rd	[signature]	FGL		6.23.2023 1028 1730
4th	GLS		6.23.2023 1730	

LABORATORY USE ONLY
Logged In By: _____ **Total Samples:** _____ **Laboratory No.:** _____

6.6°
ROI

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: 6.6°R0T / ____ / ____ / ____

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?	(Yes)	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(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?	(Yes)	No	
9.	Verify sample date, time and sampler name	(Yes)	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): [illegible]

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:
559648785 / 7 / 96 / 64 / 75

3.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(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?	(Yes)	No		
2.	Did bottle labels correspond with the client's ID's?	(Yes)	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	(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?	(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): [illegible]

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:

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

(4019696)
Sentry Ag Service
VI 2344189
iv 06/24/2023 09:55:05
VI 2344189

September 14, 2023

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

Lab No. : VI 2345798
Customer No. : 4019696
Reference : 3138

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
W3	08/30/2023	08/30/2023	VI 2345798-001	AGW
W5	08/30/2023	08/30/2023	VI 2345798-002	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)

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: 2023-09-15

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September 14, 2023

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

Description : W3
Project : 4K

Lab No. : VI 2345798-001
Customer No. : 4019696
Reference : 3138
Sampled On : August 30, 2023 at 08:40
Sampled By : Brandon H.
Received On : August 30, 2023 at 15:14
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO3)	80	10	mg/L		1		09/04/2023	15:06	amm	SM 4500-H+B	09/05/2023	03:47	amm
Bicarbonate	100	10	mg/L		1		09/04/2023	15:06	amm	SM 4500-H+B	09/05/2023	03:47	amm
Carbonate	ND	10	mg/L		1	U	09/04/2023	15:06	amm	SM 4500-H+B	09/05/2023	03:47	amm
Hydroxide	ND	10	mg/L		1	U	09/04/2023	15:06	amm	SM 4500-H+B	09/05/2023	03:47	amm
Chloride	52	1	mg/L		1		08/31/2023	11:04	ldm	EPA 300.0	08/31/2023	22:06	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:47	lcr
Nitrate Nitrogen	5.4	0.1	mg/L		1		08/31/2023	11:04	ldm	EPA 300.0	08/31/2023	22:06	ldm
Nitrogen, Total as Nitrogen	5.4	0.5	mg/L		1	l	09/12/2023	09:41	sta	Calc.	09/13/2023	16:47	lcr
Nitrate + Nitrite as N	5.4	0.1	mg/L		1		08/31/2023	11:04	ldm	EPA 300.0	08/31/2023	22:06	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:47	lcr
Conductivity	447	1	umhos/cm		1		09/04/2023	15:06	amm	SM 4500-H+B	09/05/2023	03:47	amm
Sulfate Sulfur	12.6	0.17	mg/L		1		08/31/2023	11:04	ldm	EPA 300.0	08/31/2023	22:06	ldm
Solids, Total Dissolved (TDS)	260	20	mg/L		1		09/01/2023	10:30	ctl	SM 2540 C	09/05/2023	11:45	ctl
Calcium	31	1	mg/L		1		09/01/2023	07:35	ejc	EPA 200.7	09/06/2023	16:25	ac
Magnesium	2	1	mg/L		1		09/01/2023	07:35	ejc	EPA 200.7	09/06/2023	16:25	ac
Sodium	57	1	mg/L		1	h	09/01/2023	07:35	ejc	EPA 200.7	09/06/2023	16:25	ac

DQF Flags Definition:
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.
h The MS/MSD did not meet QC criteria.

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

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CA ELAP Certification No. 2810

September 14, 2023

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

Description : W5
Project : 4K

Lab No. : VI 2345798-002
Customer No. : 4019696
Reference : 3138
Sampled On : August 30, 2023 at 08:45
Sampled By : Brandon H.
Received On : August 30, 2023 at 15:14
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:49	lcr
Nitrate Nitrogen	12.7	0.4	mg/L		1	h	08/31/2023	12:00	lfs	SM 4500-NO3 F	08/31/2023	14:06	lfs
Nitrogen, Total as Nitrogen	12.7	0.5	mg/L		1	lh	09/12/2023	09:41	sta	Calc.	09/13/2023	16:49	lcr
Nitrate + Nitrite as N	12.7	0.4	mg/L		1	h	08/31/2023	12:00	lfs	SM 4500-NO3 F	08/31/2023	14:06	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	09/12/2023	09:41	sta	EPA 351.2	09/13/2023	16:49	lcr
Conductivity	782	1	umhos/cm		1		09/12/2023	06:52	krh	SM 4500-H+B	09/12/2023	10:24	krh
Solids, Total Dissolved (TDS)	540	20	mg/L		1		09/01/2023	10:30	ctl	SM 2540 C	09/05/2023	11:45	ctl

DQF Flags Definition:
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.
h The MS/MSD did not meet QC criteria.

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

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September 14, 2023
Sentry Ag Service

Lab No. : VI 2345798
Customer No. : 4019696

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	09/01/2023:209817EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	94.5%	85-115	
			MS	mg/L	12.00	168%	<¼	406
		(CH 2377359-009)	MSD	mg/L	12.00	133%	<1/4	
			MSRPD	mg/L		3.3%	≤20.0	
			MS	mg/L	12.00	89.4%	75-125	
		(CH 2377359-002)	MSD	mg/L	12.00	113%	75-125	
			MSRPD	mg/L		2.7%	≤20.0	
Magnesium	200.7	09/01/2023:209817EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	97.6%	85-115	
			MS	mg/L	12.00	135%	<¼	406
		(CH 2377359-009)	MSD	mg/L	12.00	112%	75-125	
			MSRPD	mg/L		3.1%	≤20	
			MS	mg/L	12.00	85.8%	75-125	
		(CH 2377359-002)	MSD	mg/L	12.00	103%	75-125	
			MSRPD	mg/L		2.7%	≤20	
Sodium	200.7	09/01/2023:209817EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	89.2%	85-115	
			MS	mg/L	12.00	128%	75-125	435
		(CH 2377359-009)	MSD	mg/L	12.00	114%	75-125	
			MSRPD	mg/L		3.1%	≤20.0	
			MS	mg/L	12.00	94.2%	75-125	
		(CH 2377359-002)	MSD	mg/L	12.00	110%	75-125	
			MSRPD	mg/L		3.8%	≤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.
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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September 14, 2023
Sentry Ag Service

Lab No. : VI 2345798
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	09/04/2023:209860AMM	ND	mg/L		0.7%	10	435
Bicarbonate	2320B	(VI 2345646-007)	Dup	mg/L		0.6%	10	
E. C.	2320B	(VI 2345646-007)	Dup	umhos/cm		0.3%	5	
	2320B	(STK2351897-003)	Dup	umhos/cm		3.57%	5	
Solids, Total Dissolved	2540CE	09/01/2023:209835CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	100%	90-110	
		(STK2351855-001)	Dup	mg/L		2.03%	5	
		(STK2351855-001)	Dup	mg/L		2.43%	5	
Chloride	300.0	08/31/2023:209857LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	101 %	90-110	
			MS	mg/L	50.00	102 %	67-117	
		(VI 2345658-003)	MSD	mg/L	50.00	102 %	67-117	
			MSRPD	mg/L	10.00	0.05%	≤7	
			MS	mg/L	50.00	96.5 %	67-117	
		(CH 2377307-001)	MSD	mg/L	50.00	96.4 %	67-117	
			MSRPD	mg/L	10.00	0.1%	≤7	
Nitrate + Nitrite as N	300.0	08/31/2023:209857LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	100 %	90-110	
			MS	mg/L	40.00	103 %	86-112	
		(VI 2345658-003)	MSD	mg/L	40.00	103 %	86-112	
			MSRPD	mg/L	10.00	0.06%	≤7	
			MS	mg/L	40.00	100 %	86-112	
		(CH 2377307-001)	MSD	mg/L	40.00	100 %	86-112	
			MSRPD	mg/L	10.00	0.0%	≤7	
Nitrate Nitrogen	300.0	08/31/2023:209857LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	100 %	90-110	
			MS	mg/L	40.00	103 %	86-112	
		(VI 2345658-003)	MSD	mg/L	40.00	103 %	86-112	
			MSRPD	mg/L	10.00	0.06%	≤7	
			MS	mg/L	40.00	100 %	86-112	
		(CH 2377307-001)	MSD	mg/L	40.00	100 %	86-112	
			MSRPD	mg/L	10.00	0.0%	≤7	
Sulfate Sulfur	300.0	08/31/2023:209857LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	102 %	90-110	
			MS	mg/L	100.0	103 %	18-165	
		(VI 2345658-003)	MSD	mg/L	100.0	103 %	18-165	
			MSRPD	mg/L	10.00	0.02%	≤7	
			MS	mg/L	100.0	94.4 %	18-165	
		(CH 2377307-001)	MSD	mg/L	100.0	94.3 %	18-165	
			MSRPD	mg/L	10.00	0.05%	≤7	
Nitrogen, Total Kjeldahl	351.2	09/12/2023:210201STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	87.6%	73-124	
			MS	mg/L	12.00	91.3%	90-110	
		(CH 2377291-005)	MSD	mg/L	12.00	83.2%	90-110	435
			MSRPD	mg/L		8.9%	≤20	
			MS	mg/L	12.00	81.1%	<¼	406
		(CH 2377291-006)	MSD	mg/L	12.00	79.6%	<1/4	
			MSRPD	mg/L		1.8%	≤20	
Nitrate + Nitrite as N	4500NO3F	08/31/2023:209806LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	100%	80-120	

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September 14, 2023

Sentry Ag Service

Lab No. : VI 2345798
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
			MS	mg/L	5.609	521%	66-125	435
		(CH 2377338-001)	MSD	mg/L	5.609	519%	66-125	435
			MSRPD	mg/L		0.3%	≤30.4	
Nitrate Nitrogen	4500NO3F	08/31/2023:209806LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	100%	80-120	
			MS	mg/L	5.609	521%	66-125	435
		(CH 2377338-001)	MSD	mg/L	5.609	519%	66-125	435
			MSRPD	mg/L		0.3%	≤30.4	

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.

Page 6 of 6

Laboratory Analysis Work Order

3138

SITE NAME: 4K 2345798

LABORATORY: VT | FGL 4-19696

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

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO_3N (Dom)
- W2 EC, NO_3N, TDS, TN (Irr)
- W3 NH_4-N (Ammonium)
- W4 EC, NO_3N, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)
- W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)
- W6 NO_3N, NO_2 (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)
- W8 Other: _____

Plant Tissue

- P1 TN, NO_3N, PO_4P, 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, NH_4N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S
- S2 S1 + CEC, CaCO3, OM, C:N, TN
- S3 NO_3N, NH_4N
- S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS NH_3N *	pH	Temp
1	W3	Irr. Well	W5	8/30/23 8:40	Brandon H	—		
2	W5	↓	W2	↓ 8:45	↓	—		
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 sampes, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[signature]	SAS		8/30/23 15:14
2nd	[signature]	FGL	8/30/23 15:14	
3rd	[signature]			8/30/23 1720
4th	[signature]	↓	8/30/23 1720	

LABORATORY USE ONLY
Logged In By: [signature] 8/31/23 Total Samples: _____ Laboratory No.: _____

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 # FIC
2. Were samples received in a chilled condition? Temps: 1 5.7C / / /
   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?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	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?	Yes	No	
9.	Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): #1 HC1

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 5C / 4.1 3 / / /
   Acceptable is above freezing to 6 C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 6600423337 | 12 | 20

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	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?	Yes	No		
2.	Did bottle labels correspond with the client's ID's?	Yes	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	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?	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): _____

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:

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

(4019696)
Sentry Ag Service
VI 2345798
cda 08/31/2023 07:19:15
VI 2345798
2345798

— number here

January 2, 2024

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

Lab No. : **VI 2348548**
Customer No. : **4019696**
Reference : **3495**

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
W20	12/14/2023	12/14/2023	VI 2348548-001	DW

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

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2024-01-03

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January 2, 2024

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

Description : W20
Project : 4 K Dairy

Lab No. : VI 2348548-001
Customer No. : 4019696
Reference : 3495
Sampled On : December 14, 2023 at 08:02
Sampled By : Brandon
Received On : December 14, 2023 at 13:37
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	11.6	0.4	mg/L	10	1		12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	16:31	lfs
Conductivity	892	1	umhos/cm	1600[2]	1		12/22/2023	09:20	krh	SM 4500-H+B	12/22/2023	12:07	krh

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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January 2, 2024
Sentry Ag Service

Lab No. : VI 2348548
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348803-002)	Dup	umhos/cm		0.1%	5	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.3%	80-120	
			MS	mg/L	5.609	93.1%	66-125	
		(VI 2348536-001)	MSD	mg/L	5.609	94.3%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	

Definition

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

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Santa Paula, CA 93060
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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 Empresa 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

Laboratory Analysis Work Order

3495

2348548

SITE NAME: 4 K Dairy

LABORATORY: VT / FGL 4-19696

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

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO_3N (Dom)
- W2 EC, NO_3N, TDS, TN (Irr)
- W3 NH_4-N (Ammonium)
- W4 EC, NO_3N, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)
- W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)
- W6 NO_3N, NO_2 (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)
- W8 Other: _____

10.0°C
ROI
TH407

Plant Tissue

- P1 TN, NO_3N, PO_4P, 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, NH_4N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S
- S2 S1 + CEC, CaCO3, OM, C:N, TN
- S3 NO_3N, NH_4N
- S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS NH_3N *	pH	Temp
1	W:20	domestic well	W1	12/14/23 8:07am	Brandon	0		
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 sampes, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[signature]	SAS		12/14/23 13:37
2nd	ADB	Fed	12/14/23 1337	
3rd	ADB	Fed		12/14/23 1730
4th	GLS	GLS	12/14/23 1730	

LABORATORY USE ONLY
Logged In By: _____ **Total Samples:** _____ **Laboratory No.:** _____ 12/15/23 1155

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK (VI)

1. Number of ice chests/packages received: 1 Shipping tracking #(s): [illegible]
2. Temp IR Gun ID #: 407
3. Were samples received on ice? (Yes) No Temps: 10.0°C / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
4. Do the number of bottles received agree with the COC? (Yes) No N/A
5. Were samples received intact? (i.e. no broken bottles, leaks etc.) (Yes) No
6. VOAs checked for Headspace? Yes No (N/A)
7. Were all analyses within holding times at time of receipt? (Yes) No
8. Verify sample date, time and sampler name (Yes) No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): AJB

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): 560163454, 560163463, 560163340
2. Temp IR Gun ID #: 0446
3. Were samples received on ice? (Yes) No Temps: 2 / 1 / 1 / 3 / ____
   Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/
4. Do the number of bottles received agree with the COC? (Yes) No N/A
5. Were samples received intact? (i.e. no broken bottles, leaks etc.) (Yes) No

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

Sample Verification, Labeling and Distribution:

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

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): [illegible]

Discrepancy Documentation:

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

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

(Please use the back of this sheet for additional comments c

(4019696)
Sentry Ag Service
VI 2348548
iv 12/15/2023 09:47:35
VI 2348548

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: Leslie Souza

Name of Dairy Facility: 4K

Facility Address: 7976 Ave 84 (Number and Street) Pixley (City) 93256 (Zip Code)

Contact Person Name and Phone Number: Leslie (Name) 559-697-2373 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: 4K

Address of Hauling Company /Person: 7976 Ave. 84 (Number and Street) Pixley (City) 93256 (Zip Code)

Contact Person: Leslie (Name) 697-2373 (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):

Fields Custom Hay (Name) 6215 Rd. 42 (Number and Street) Alpaugh (City) 93201 (Zip Code) 679-2373 (Phone Number)

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

_____ (Number and Street) _____ (City) _____ (Zip Code) _____ (Assessor's Parcel Number)

Dates Hauled: 12/1/2023

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: 5910.0 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 91.5%

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

Method used to determine amount of manure: Scale

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 ___X___ 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: _____ Date: 6-26-24

Hauler's Signature: _____ Date: 6-26-24