

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:** Kerman Cattle Co

Physical address of dairy:

4301 S Dickenson

Number and Street

Fresno

City

Fresno

County

93706

Zip Code

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

Date facility was originally placed in operation: 01/01/1970Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

B. OPERATORS

Gailey, Matt

Operator name: Gailey, MattTelephone no.: (559) 280-2972

Landline

Cellular

PO Box 370

Mailing Address Number and Street

Kerman

City

CA

State

93630

Zip Code

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

Bos Capital

Legal owner name: Bos CapitalTelephone no.: (559) 268-2349

Landline

Cellular

4301 S Dickenson

Mailing Address Number and Street

Fresno

City

CA

State

93706

Zip Code

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	770	70	100	50	50	0
Number under roof	0	0	0	0	0	0
Maximum number	770	70	100	50	50	0
Average number	770	70	100	50	50	0
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 69 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 22,349.87 tons per reporting period

Total nitrogen from manure: 286,626.14 lbs per reporting period

After ammonia losses (30% loss applied): 200,638.30 lbs per reporting period

Total phosphorus from manure: 47,777.66 lbs per reporting period

Total potassium from manure: 146,956.21 lbs per reporting period

Total salt from manure: 378,651.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 43,520,000 gallons

Total nitrogen generated: 181,482.88 lbs

Total phosphorus generated: 19,613.97 lbs

Total potassium generated: 141,133.20 lbs

Total salt generated: 937,763.37 lbs

43,520,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 43,520,000 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Barn	Ground water
Canal	Surface water

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Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/22/2023	Corral solids	5,200.00 <i>ton</i>	As-is	28.9		9,500.00	5,600.00	19,900.00		55.65

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	98,800.00	58,240.00	206,960.00	4,114,983.60
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	98,800.00	58,240.00	206,960.00	4,114,983.60

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	75	75	2	process wastewater	X025-X060-X064-XXXX
2	50	50	2	process wastewater	X025-X060-X064-XXXX
3	70	70	2	process wastewater	X025-X060-X031-XXXX
4	65	65	2	process wastewater	X025-X060-X031-XXXX
Totals for areas that were used for application	260	260	8		
Totals for areas that were not used for application					
Land application area totals	260	260	8		

B. CROPS AND HARVESTS

1

Field name: 1

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 75 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,350.00 ton	Dry-weight		58.8	29,100.00	4,700.00	37,700.00		11.89

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.00	431.61	69.71	559.17	1,763.52

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/28/2023	1,875.00 ton	Dry-weight		69.4	23,500.00	2,700.00	22,700.00		6.58

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.00	359.55	41.31	347.31	1,006.74

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2

Field name: 2

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 50 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	900.00 ton	Dry-weight		69.8	17,100.00	4,100.00	23,200.00		9.91

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.00	185.91	44.58	252.23	1,077.42

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	1,250.00 ton	Dry-weight		66.7	21,600.00	2,600.00	16,000.00		7.58

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.00	359.64	43.29	266.40	1,262.07

3

Field name: 3

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 70 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,260.00 ton	Dry-weight		65.3	23,000.00	4,500.00	21,500.00		9.87

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.00	287.32	56.21	268.58	1,232.96

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3

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 70 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	1,750.00 ton	Dry-weight		64.9	23,700.00	3,100.00	16,100.00		6.35

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.00	415.94	54.41	282.56	1,114.43

4

Field name: 4

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 65 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,170.00 ton	Dry-weight		66.1	18,500.00	3,900.00	23,500.00		9.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.00	225.77	47.60	286.79	1,189.89

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 65 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	1,625.00 ton	Dry-weight		71.5	13,200.00	2,200.00	19,000.00		8.21

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.00	188.10	31.35	270.75	1,169.93

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/01/2022: Wheat, silage, boot stage

Field name: 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
12/23/2022	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	
WW		Process wastewater	36.14	4.01	23.93	139.58	500,000.00 <i>gal</i>	
Application event totals			36.14	4.01	23.93	139.58		
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	
WW		Process wastewater	108.42	12.04	71.78	418.75	1,500,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	9.48	7,100,000.00 <i>gal</i>	
Application event totals			108.42	12.04	71.78	428.23		
02/24/2023	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	
WW		Process wastewater	108.42	12.04	71.78	418.75	1,500,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	9.48	7,100,000.00 <i>gal</i>	
Application event totals			108.42	12.04	71.78	428.23		
03/25/2023	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	
WW		Process wastewater	108.42	12.04	71.78	418.75	1,500,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	9.48	7,100,000.00 <i>gal</i>	
Application event totals			108.42	12.04	71.78	428.23		

1 - 06/01/2023: Corn, silage

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1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
06/29/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.66	
07/09/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	66.73	7.84	49.63	370.77	1,580,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>
Application event totals			66.73	7.84	49.63	385.43	
07/19/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.66	
07/29/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	66.73	7.84	49.63	370.77	1,580,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>
Application event totals			66.73	7.84	49.63	385.43	
08/09/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	66.73	7.84	49.63	370.77	1,580,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>
Application event totals			66.73	7.84	49.63	385.43	

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1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
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	
WW		Process wastewater	80.80	7.51	82.49	574.69	1,580,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>	
Application event totals			80.80	7.51	82.49	589.36		
08/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	14.66		
09/09/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	80.80	7.51	82.49	574.69	1,580,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.66	10,980,000.00 <i>gal</i>	
Application event totals			80.80	7.51	82.49	589.36		

2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
12/28/2022	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
Canal		Surface water	0.00	0.00	0.00	9.01	4,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	9.01	

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2 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	126.85	14.09	83.99	489.94	1,170,000.00 <i>gal</i>
Application event totals		126.85	14.09	83.99	489.94	
02/24/2023	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
WW	Process wastewater	126.85	14.09	83.99	489.94	1,170,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	9.01	4,500,000.00 <i>gal</i>
Application event totals		126.85	14.09	83.99	498.95	
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
Canal	Surface water	0.00	0.00	0.00	9.01	4,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.01	

2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.22	

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2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	100.10	11.76	74.44	556.15	1,580,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals		100.10	11.76	74.44	571.37	
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
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.22	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	100.10	11.76	74.44	556.15	1,580,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals		100.10	11.76	74.44	571.37	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.22	
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
WW	Process wastewater	121.20	11.26	123.73	862.04	1,580,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals		121.20	11.26	123.73	877.26	

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2 - 06/01/2023: Corn, silage

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
Canal		Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	15.22	
09/07/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	121.20	11.26	123.73	862.04	1,580,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	15.22	7,600,000.00 <i>gal</i>
Application event totals			121.20	11.26	123.73	877.26	

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
12/26/2022	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
WW		Process wastewater	195.54	21.72	129.47	755.25	2,525,000.00 <i>gal</i>
Application event totals			195.54	21.72	129.47	755.25	
01/18/2023	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
Canal		Surface water	0.00	0.00	0.00	9.30	6,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	9.30	

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

3 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
02/21/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	195.54	21.72	129.47	755.25	2,525,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	9.30	6,500,000.00 <i>gal</i>
Application event totals			195.54	21.72	129.47	764.55	
03/17/2023	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
Canal		Surface water	0.00	0.00	0.00	9.30	6,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	9.30	

3 - 06/01/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
06/28/2023	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
Canal		Surface water	0.00	0.00	0.00	15.02	10,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	15.02	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation		
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	100.69	11.83	74.88	559.42	2,225,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	15.02	10,500,000.00 <i>gal</i>
Application event totals			100.69	11.83	74.88	574.44	

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

3 - 06/01/2023: Corn, silage

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
Canal		Surface water	0.00	0.00	0.00	15.02	10,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	15.02	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	100.69	11.83	74.88	559.42	2,225,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	15.02	10,500,000.00 <i>gal</i>
Application event totals			100.69	11.83	74.88	574.44	
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
Canal		Surface water	0.00	0.00	0.00	15.02	10,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	15.02	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	121.91	11.33	124.46	867.11	2,225,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	15.02	10,500,000.00 <i>gal</i>
Application event totals			121.91	11.33	124.46	882.13	
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
Canal		Surface water	0.00	0.00	0.00	1.50	1,050,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	1.50	

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

3 - 06/01/2023: Corn, silage

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
WW		Process wastewater	121.91	11.33	124.46	867.11	2,225,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	15.02	10,500,000.00 <i>gal</i>
Application event totals			121.91	11.33	124.46	882.13	

4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
02/06/2023	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	
WW		Process wastewater	138.86	15.42	91.94	536.32	1,665,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	8.40	5,450,000.00 <i>gal</i>	
Application event totals			138.86	15.42	91.94	544.72		
03/05/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	137.61	15.29	91.11	531.49	1,650,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	8.40	5,450,000.00 <i>gal</i>	
Application event totals			137.61	15.29	91.11	539.89		
04/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	8.40	5,450,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	8.40		

4 - 06/01/2023: Corn, silage

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

4 - 06/01/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
06/29/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.68	
07/09/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	76.27	8.96	56.72	423.74	1,565,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>
Application event totals			76.27	8.96	56.72	438.43	
07/19/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.68	
07/29/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	76.27	8.96	56.72	423.74	1,565,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>
Application event totals			76.27	8.96	56.72	438.43	
08/09/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.68	

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

4 - 06/01/2023: 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	
WW		Process wastewater	92.34	8.58	94.27	656.81	1,565,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>	
Application event totals			92.34	8.58	94.27	671.50		
08/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	14.68		
09/09/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	14.68	9,530,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	14.68		

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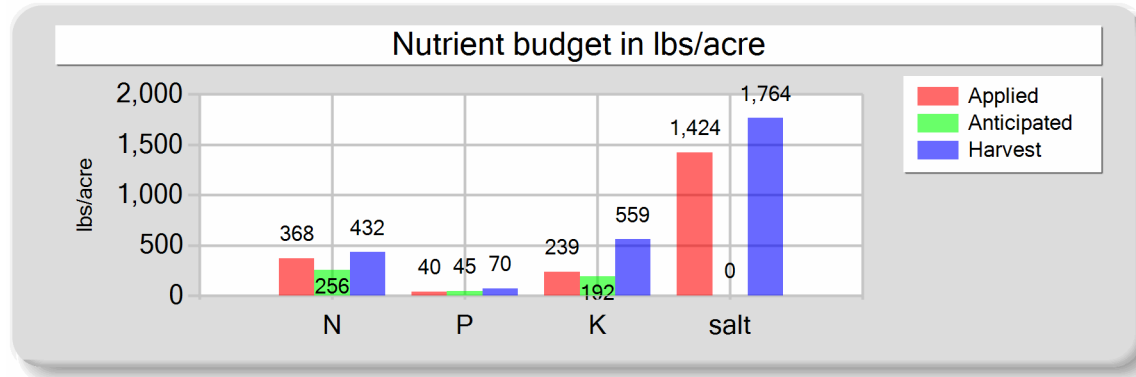
B. NUTRIENT BUDGET

1 - 11/01/2022: Wheat, silage, boot stage

Field name: 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,300,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	784.41 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.46 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	361.40	40.15	239.28	1,395.84	Process wastewater applied
Fresh water	0.00	0.00	0.00	28.44	5,000,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	184.13 acre-inches
Total nutrients applied	368.40	40.15	239.28	1,424.28	2.46 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	431.61	69.71	559.17	1,763.52	Total harvests for the crop
Nutrient balance	-63.21	-29.57	-319.89	-339.24	1 harvests
Applied to removed ratio	0.85	0.58	0.43	0.81	

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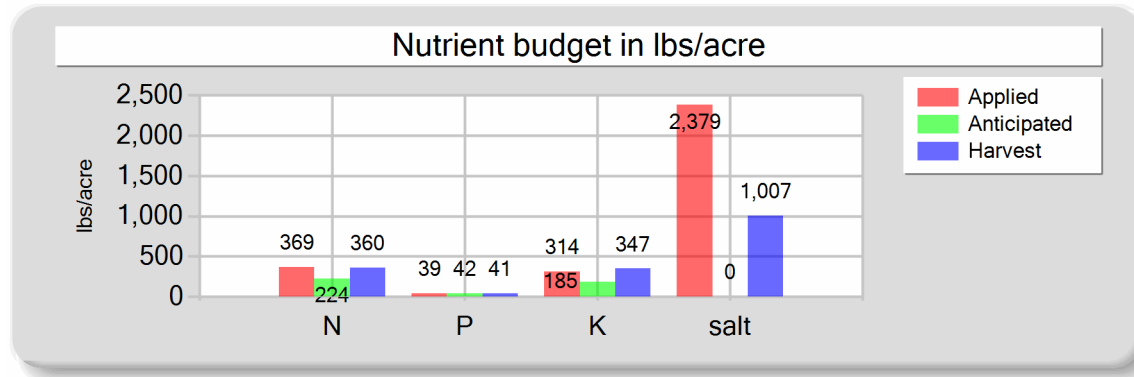
Reporting period 01/01/2023 to 12/31/2023.

1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	87,840,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,234.85 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	43.13 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	361.80	38.54	313.86	2,261.68	Process wastewater applied
Fresh water	0.00	0.00	0.00	117.28	7,900,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	290.93 <i>acre-inches</i>
Total nutrients applied	368.80	38.54	313.86	2,378.97	3.88 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	359.55	41.31	347.31	1,006.74	Total harvests for the crop
Nutrient balance	9.25	-2.77	-33.45	1,372.23	1 <i>harvests</i>
Applied to removed ratio	1.03	0.93	0.90	2.36	

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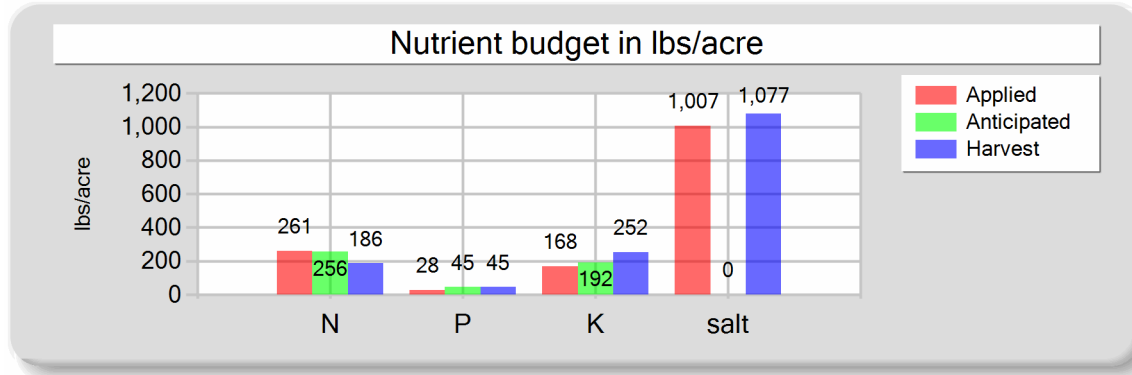
Reporting period 01/01/2023 to 12/31/2023.

2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	253.70	28.18	167.97	979.88
Fresh water	0.00	0.00	0.00	27.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	260.70	28.18	167.97	1,006.92
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	185.91	44.58	252.23	1,077.42
Nutrient balance	74.79	-16.39	-84.26	-70.50
Applied to removed ratio	1.40	0.63	0.67	0.93

Fresh water applied
13,500,000.00 <i>gallons</i>
497.16 <i>acre-inches</i>
9.94 <i>inches/acre</i>

Process wastewater applied
2,340,000.00 <i>gallons</i>
86.17 <i>acre-inches</i>
1.72 <i>inches/acre</i>

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

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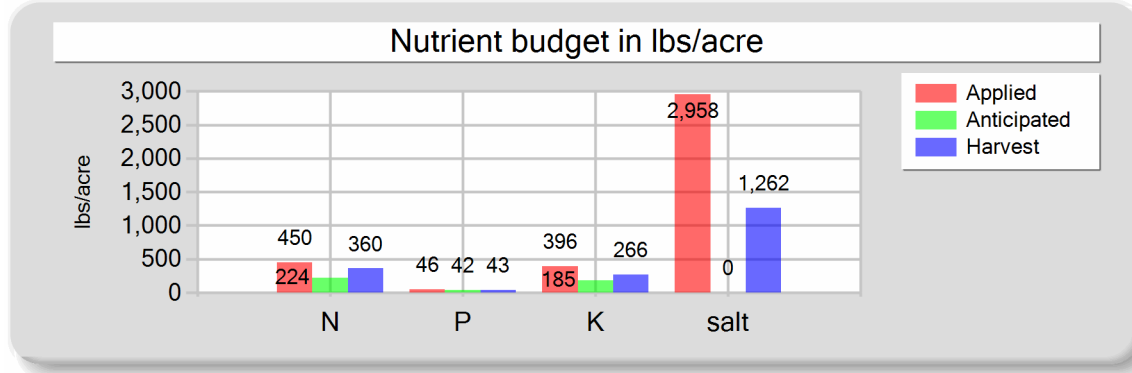
Reporting period 01/01/2023 to 12/31/2023.

2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	60,800,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,239.06 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	44.78 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	442.60	46.04	396.34	2,836.38	Process wastewater applied
Fresh water	0.00	0.00	0.00	121.77	6,320,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	232.74 <i>acre-inches</i>
Total nutrients applied	449.60	46.04	396.34	2,958.15	4.65 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	359.64	43.29	266.40	1,262.07	Total harvests for the crop
Nutrient balance	89.96	2.75	129.94	1,696.08	1 <i>harvests</i>
Applied to removed ratio	1.25	1.06	1.49	2.34	

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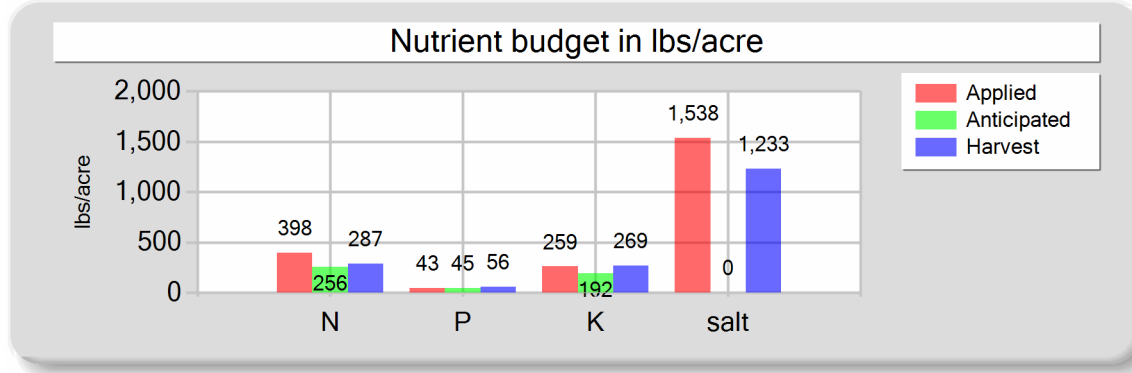
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	391.09	43.44	258.93	1,510.50
Fresh water	0.00	0.00	0.00	27.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	398.09	43.44	258.93	1,538.39
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	287.32	56.21	268.58	1,232.96
Nutrient balance	110.77	-12.77	-9.64	305.43
Applied to removed ratio	1.39	0.77	0.96	1.25

Fresh water applied
19,500,000.00 gallons
718.12 acre-inches
10.26 inches/acre

Process wastewater applied
5,050,000.00 gallons
185.97 acre-inches
2.66 inches/acre

Total harvests for the crop
1 harvests

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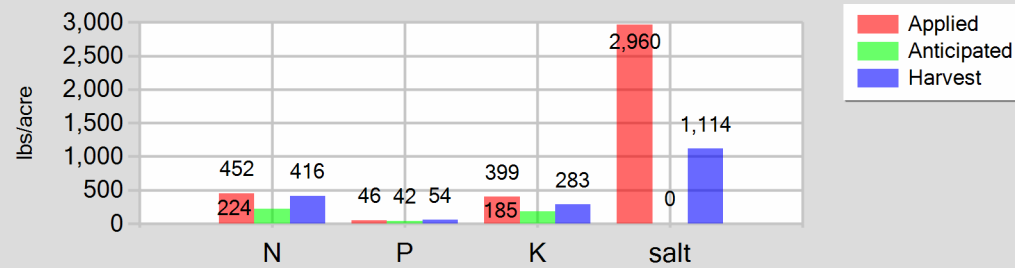
3 - 06/01/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	445.20	46.31	398.67	2,853.05
Fresh water	0.00	0.00	0.00	106.65
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	452.20	46.31	398.67	2,959.70
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	415.94	54.41	282.56	1,114.43
Nutrient balance	36.26	-8.09	116.12	1,845.27
Applied to removed ratio	1.09	0.85	1.41	2.66

Fresh water applied
74,550,000.00 gallons
2,745.42 acre-inches
39.22 inches/acre
Process wastewater applied
8,900,000.00 gallons
327.76 acre-inches
4.68 inches/acre
Total harvests for the crop
1 harvests

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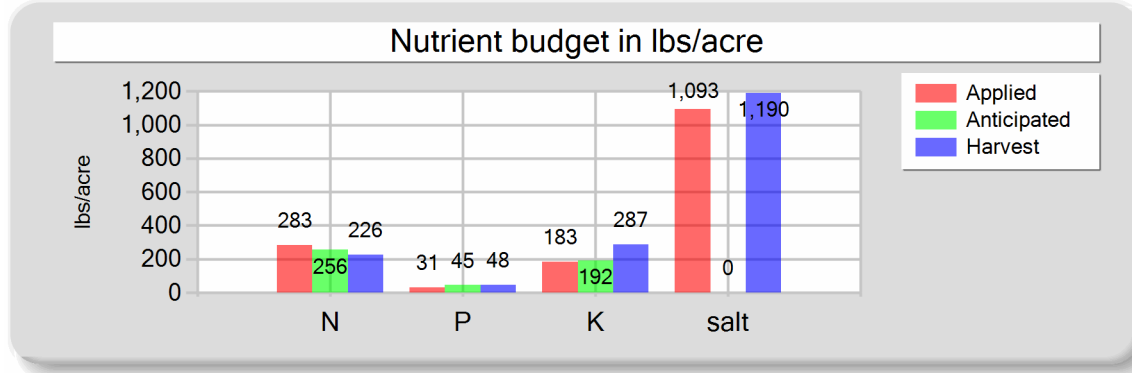
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	276.47	30.71	183.05	1,067.82
Fresh water	0.00	0.00	0.00	25.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	283.47	30.71	183.05	1,093.01
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	225.77	47.60	286.79	1,189.89
Nutrient balance	57.70	-16.88	-103.75	-96.88
Applied to removed ratio	1.26	0.65	0.64	0.92

Fresh water applied
16,350,000.00 gallons
602.11 acre-inches
9.26 inches/acre

Process wastewater applied
3,315,000.00 gallons
122.08 acre-inches
1.88 inches/acre

Total harvests for the crop
1 harvests

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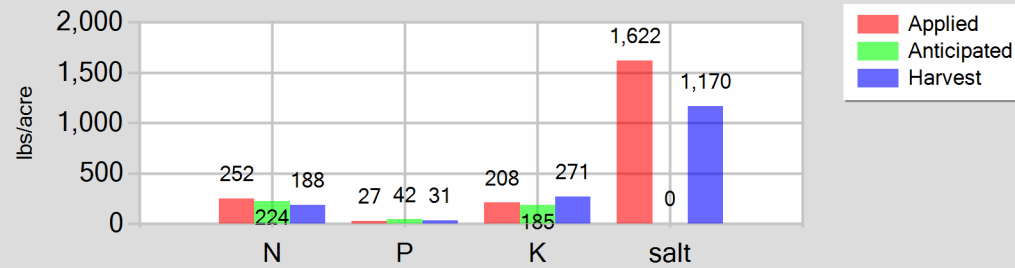
4 - 06/01/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	244.88	26.50	207.71	1,504.30
Fresh water	0.00	0.00	0.00	117.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	251.88	26.50	207.71	1,621.76
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	188.10	31.35	270.75	1,169.93
Nutrient balance	63.78	-4.85	-63.04	451.83
Applied to removed ratio	1.34	0.85	0.77	1.39

Fresh water applied
76,240,000.00 gallons
2,807.66 acre-inches
43.19 inches/acre
Process wastewater applied
4,695,000.00 gallons
172.90 acre-inches
2.66 inches/acre
Total harvests for the crop
1 harvests

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

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Dry Manure

Sample and source description: Dry Manure

Sample date: 06/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,800.00	1,700.00	6,500.00	4,300.00	1,700.00	1,700.00	16,001.00	214.40		23.60
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

Dry Manure

Sample and source description: Dry Manure

Sample date: 10/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 28.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,500.00	5,600.00	19,900.00							55.65
DL	100.00	100.00	100.00							1.00

B. PROCESS WASTEWATER ANALYSES

1st Qtr WW

Sample and source description: 1st Qtr WW

Sample date: 02/03/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.54

	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	649.61	161.07	0.00	0.00	72.16	430.10								3,920.00	2,509
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

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

2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.58

	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	379.60	138.60	0.00	0.00	44.60	282.30	5.90	4.80	6.00	31.60	0.00	1.10	3.70	3,296.00	2,109
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.10	0.01	0.01	1.00	19

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 09/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.84

	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	459.60	242.90	0.00	0.00	42.70	469.20								5,108.00	3,269
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 12/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.38

	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	279.70	121.00	0.00	0.00	56.98	226.80								3,059.00	1,957
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Barn

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

Barn

Barn

Sample description: Barn

Sample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.70										1,120.00	
DL	0.10										10.00	

Canal

Canal

Sample description: Canal

Sample date: 08/17/2023 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										20.00	
DL	0.10										1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 11/01/2022: Wheat, silage, boot stage

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

1 - 11/01/2022: Wheat, silage, boot stage

1

Sample and source description: 1

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,100.00	4,700.00	37,700.00		11.89
DL	100.00	100.00	100.00		1.00

1 - 06/01/2023: Corn, silage

1

Sample and source description: 1

Sample date: 10/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,500.00	2,700.00	22,700.00		6.58
DL	100.00	100.00	100.00		1.00

2 - 11/01/2022: Wheat, silage, boot stage

2

Sample and source description: 2

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,100.00	4,100.00	23,200.00		9.91
DL	100.00	100.00	100.00		1.00

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

2 - 06/01/2023: Corn, silage

2

Sample and source description: 2

Sample date: 10/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,600.00	2,600.00	16,000.00		7.58
DL	100.00	100.00	100.00		1.00

3 - 11/01/2022: Wheat, silage, boot stage

3

Sample and source description: 3

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,000.00	4,500.00	21,500.00		9.87
DL	100.00	100.00	100.00		1.00

3 - 06/01/2023: Corn, silage

3

Sample and source description: 3

Sample date: 10/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,700.00	3,100.00	16,100.00		6.35
DL	100.00	100.00	100.00		1.00

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

4 - 11/01/2022: Wheat, silage, boot stage

4

Sample and source description: 4

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,500.00	3,900.00	23,500.00		9.75
DL	100.00	100.00	100.00		1.00

4 - 06/01/2023: Corn, silage

4

Sample and source description: 4

Sample date: 10/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	2,200.00	19,000.00		8.21
DL	100.00	100.00	100.00		1.00

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

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

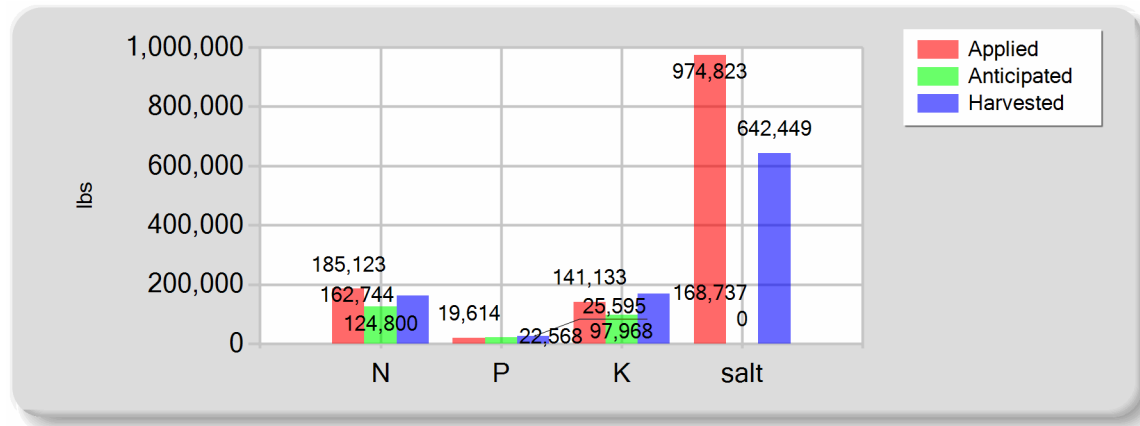
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

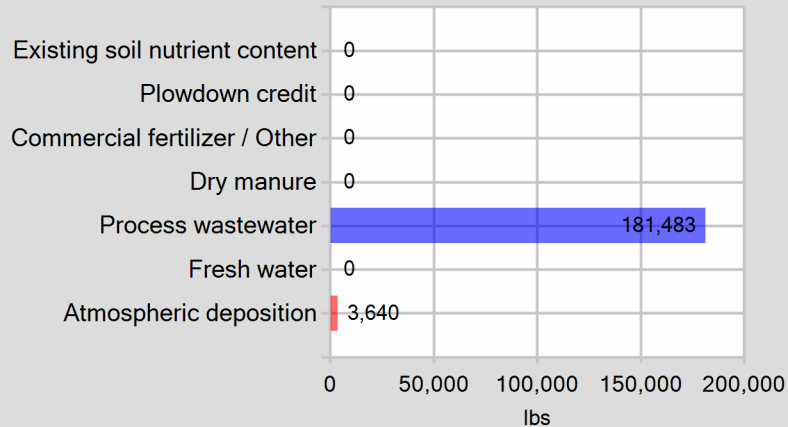
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	181,482.88	19,613.97	141,133.20	937,763.37
Fresh water	0.00	0.00	0.00	37,059.81
Atmospheric deposition	3,640.00	0.00	0.00	0.00
Total nutrients applied	185,122.88	19,613.97	141,133.20	974,823.18
Anticipated crop nutrient removal	124,800.00	22,568.00	97,968.00	0.00
Actual crop nutrient removal	162,744.03	25,594.58	168,736.92	642,449.07
Nutrient balance	22,378.85	-5,980.62	-27,603.72	332,374.10
Applied to removed ratio	1.14	0.77	0.84	1.52

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

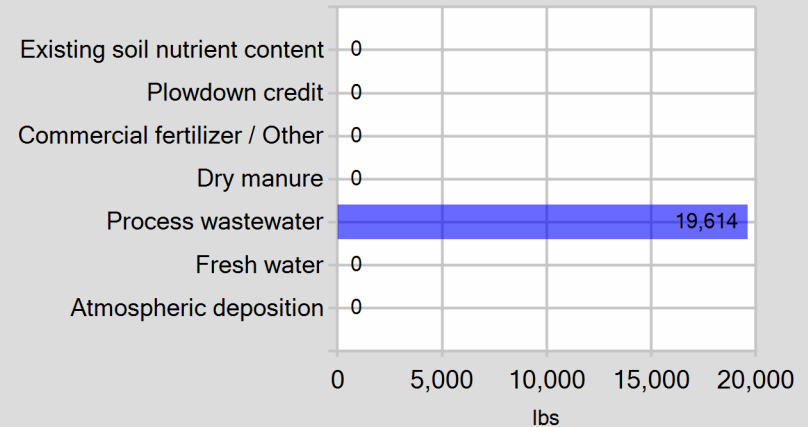


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

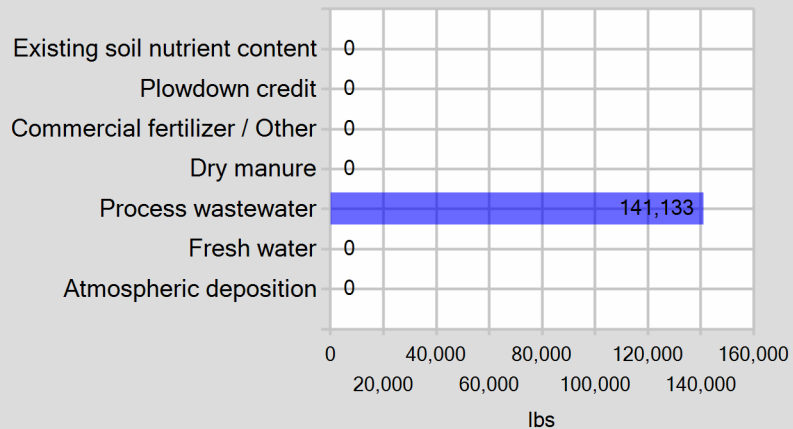
Pounds of nitrogen applied



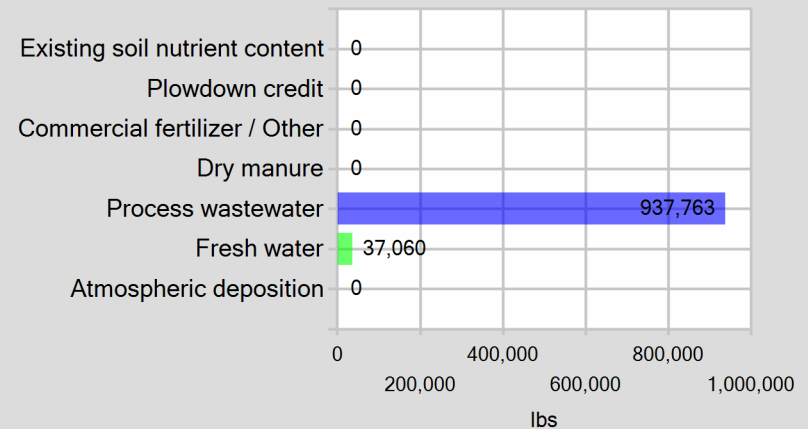
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period? No

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

All wells were all negative for Ammonia which we tested onsite using a test strip .

We had an extremely wet year and had early flood release water and then Canal water thru the whole year so no wells were turned on .

Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY

Bos Capital

PRINT OR TYPE NAME

DATE

SIGNATURE OF OPERATOR OF FACILITY

Matt Gailey

PRINT OR TYPE NAME

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

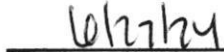
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate,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



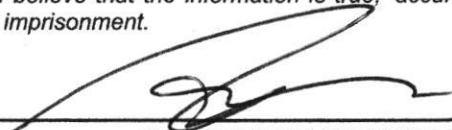
SIGNATURE OF OWNER OF FACILITY

Bos Capital

PRINT OR TYPE NAME



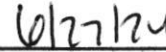
DATE



SIGNATURE OF OPERATOR OF FACILITY

Matt Gailey

PRINT OR TYPE NAME



DATE

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: Matt Gailey

Name of Dairy Facility: Kerman Cattle Co

Facility Address:

4301 S Dickenson	Fresno	Fresno	93706
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: <u>Matt Gailey</u>	(559) 280-2972
Name	Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Burrows Brothers Trucking

Address of Hauling Company/Person:

13265 W Kamm AVE	Kerman	CA	93656
Number and Street	City	State	Zip Code

Contact Person: <u>Lonie Burrows</u>	(559) 246-3831
Name	Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Broker

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Burrow Brother Trucking	(559) 246-3831
Name	Phone Number

13265 Kerman	Kerman	CA	93656
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

Address	Kerman	93656
	City	Zip Code

Kamm	Fresno
Street and nearest cross street (if no address)	County

Assessor's Parcel Number	Assessor's Parcel Number County
--------------------------	---------------------------------

Last date hauled: 10/22/2023

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies
General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 5,200.00 tons

Manure Solids Content: 71.1 %

Method used to determine amount of manure:

Weighted Average

CERTIFICATION

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

Operator Signature

Date

Hauler Signature

Date

6/27/24

6/27/24

Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 11:17

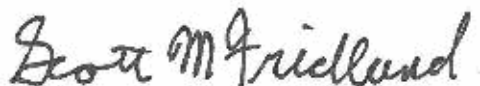
Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0669-01	Barn	Ag Water	Medeiros		12/12/2023 7:10

Default Cooler Temperature on Receipt °C: 19.2
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 11:17

Sample Results

Sample: Barn
23L0669-01 (Water)

Sampled: 12/12/2023 7:10
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.12	mmhos/cm	0.01	1		12/13/23 16:09	SM 2510 B		BEL0496
Electrical Conductivity umhos	1120	umhos/cm	10.0	1		12/13/23 16:09	SM 2510 B		BEL0496
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 07:10	Field		BEL0516
Nitrate Nitrogen as NO3N	0.7	mg/L	0.1	1	10	12/14/23 07:23	EPA 300.0		BEL0569
Temperature	25.0	units	0.0	1		12/13/23 16:09	SM 4500-H+	H	BEL0496
pH	7.7	units	1.0	1		12/13/23 16:09	SM 4500-H+	H	BEL0496

Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 11:17

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0496									
Blank (BEL0496-BLK1)				Prepared & Analyzed: 12/13/2023					
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.7	1.0	units						
Blank (BEL0496-BLK2)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.7	1.0	units						
Blank (BEL0496-BLK3)				Prepared & Analyzed: 12/13/2023					
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.7	1.0	units						
Duplicate (BEL0496-DUP1)				Source: 23L0678-01		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	0.26	0.01	mmhos/cm		0.26		0.960	10	
Electrical Conductivity umhos	262	10.0	umhos/cm		259		0.960	10	
pH	9.4	1.0	units		9.4		0.00	10	
Duplicate (BEL0496-DUP2)				Source: 23L0687-04		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	0.43	0.01	mmhos/cm		0.42		0.587	10	
pH	8.2	1.0	units		8.2		0.00	10	
Electrical Conductivity umhos	427	10.0	umhos/cm		425		0.587	10	
Reference (BEL0496-SRM1)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	444		umhos/cm	426.0		104	90-110		
Reference (BEL0496-SRM2)				Prepared & Analyzed: 12/13/2023					
pH	7.5		units	7.520		100	67021-101.3;		
Reference (BEL0496-SRM3)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
Reference (BEL0496-SRM4)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1080		umhos/cm	1000		108	90-110		
Electrical Conductivity umhos	1080		umhos/cm	1000		108	90-110		
Reference (BEL0496-SRM5)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1090		umhos/cm	1000		109	90-110		

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Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 11:17

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0496 (Continued)									
Reference (BEL0496-SRM5)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity umhos	1090		umhos/cm	1000		109	90-110		
Reference (BEL0496-SRM6)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEL0496-SRM7)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEL0496-SRM8)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		

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Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 11:17

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0569									
Blank (BEL0569-BLK1)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0569-BLK2)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0569-BLK3)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0569-BLK4)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEL0569-BS1)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000		99.3	90-110		
LCS (BEL0569-BS2)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000		103	90-110		
LCS (BEL0569-BS3)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.7	90-110		
Duplicate (BEL0569-DUP1)				Source: 23L0625-01		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.06	0.1	mg/L		0.06			1.77	10
Duplicate (BEL0569-DUP2)				Source: 23L0674-01		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.06	0.1	mg/L		0.06			0.00	10
Duplicate (BEL0569-DUP3)				Source: 23L0730-02		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.06	0.1	mg/L		0.05			1.83	10
Matrix Spike (BEL0569-MS1)				Source: 23L0625-01		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	0.06	98.6	90-110		
Matrix Spike (BEL0569-MS2)				Source: 23L0674-01		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.06	94.2	90-110		
Matrix Spike (BEL0569-MS3)				Source: 23L0730-02		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.05	94.1	90-110		
Reference (BEL0569-SRM1)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00		97.4	90-110		
Reference (BEL0569-SRM2)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.4	90-110		

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Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 11:17

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	-------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch: BEL0569 (Continued)

Reference (BEL0569-SRM3)

Nitrate Nitrogen as NO3N	9.9	mg/L	10.00	99.0	90-110
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Prepared & Analyzed: 12/14/2023

Reference (BEL0569-SRM4)

Nitrate Nitrogen as NO3N	10.0	mg/L	10.00	99.7	90-110
--------------------------	------	------	-------	------	--------

Prepared & Analyzed: 12/14/2023



12/13/23 07:00

23L0669

WATER WORK REQUESTBill To: Acct No. 25824 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client Kerman Cattle Co
Address PO Box 370
City, State, Zip Kerman CA 93630
Email kermancattle@outlook.comCopy to: mel_tinamedeiros@yahoo.comRequested by/Cell: Christina Medeiros/ 559-903-2490

Facility: _____

Date sampled _____

Sampled by medeiros☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB**DESCRIPTION OF SAMPLES**

1. <u>Barn</u>	Sampled From: _____
2. _____	Sampled From: _____
3. _____	Sampled From: _____
4. _____	Sampled From: _____
5. _____	Sampled From: _____
6. _____	Sampled From: _____
7. _____	Sampled From: _____
8. _____	Sampled From: _____
9. _____	Sampled From: _____
10. _____	Sampled From: _____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>DA</u>	<u>12/12/23 11:32AM</u>	<u>12/12/23 11:32AM</u>
Second	<u>[Signature]</u>	<u>DA</u>	<u>12/12/23 11:32AM</u>	
Third	<u>[Signature]</u>	<u>DA</u>	<u>12/13 07:00</u>	
Fourth	<u>[Signature]</u>	<u>DA</u>		

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:		Shipping	
Medeiros Pricing 2023		\$ _____	In
Sampling Hrs _____	Miles _____ Consulting _____	\$ _____	Out
Amt Paid _____	Rec By _____	Check No. _____	Date _____

DELLAVALLE LABORATORY, INC.

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

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

No. of Samples _____ No. Bottles _____
Water Type: ☒ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____**Analysis and Bottles Required:** (Please Indicate Analysis)

- ☒ EC, NO₃-N
(1) 1 L plastic, unpreserved (white)
- ☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
(1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
(1) 1 L plastic, unpreserved (white)
- ☐ Other _____

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>12/23/23</u>	<u>7:00am</u>	<u>0</u>	<u>19.2</u>

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: LaboratoryIR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford

Signature _____

Sample received in cooler with ice?

[] Yes [] No

ett:update 2020



12/13/23 07:00

23L0669

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO ₃ or H ₂ SO ₄ were:					<input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory					
Type of Container(s) Received		Sample Number								
		1	2	3	4	5	6	7	8	9
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
Special	1 L unpreserved (BOD) (Purple) Plastic									
	500mL unpreserved (White) Glass									
	PO4-P Kit									
Other:										
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO ₃ (Red)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
Special	1 L AG HCl (Blue)									
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
Other:										
Other:										

Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:40
Reported: 08/23/2023 14:15

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1580-01	Canal	Ag Water			08/16/2023 15:30

Default Cooler Temperature on Receipt °C: 0.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:40
Reported: 08/23/2023 14:15

Sample Results

Sample: Canal
23H1580-01 (Water)

Sampled: 8/16/2023 15:30

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.02	mmhos/cm	0.01	1		08/18/23 17:11	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/17/23 20:52	EPA 300.0		BEH0886

Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:40
Reported: 08/23/2023 14:15

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0886									
Blank (BEH0886-BLK1)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEH0886-BLK2)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEH0886-BLK3)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEH0886-BS1)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.8	90-110		
LCS (BEH0886-BS2)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.4	90-110		
Duplicate (BEH0886-DUP1)		Source: 23H0170-01		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			0.475	10
Duplicate (BEH0886-DUP2)		Source: 23H1556-01		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.8	0.1	mg/L		5.8			0.172	10
Matrix Spike (BEH0886-MS1)		Source: 23H0170-01		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.2	99.6	90-110		
Matrix Spike (BEH0886-MS2)		Source: 23H1556-01		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.8	0.1	mg/L	5.000	5.8	98.9	90-110		
Reference (BEH0886-SRM1)				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.8	90-110		
Reference (BEH0886-SRM2)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		
Reference (BEH0886-SRM3)				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		

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Kerman Cattle Co
PO Box 370
Kerman, CA 93630

Account# 00-0025824
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:40
Reported: 08/23/2023 14:15

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0918									
Blank (BEH0918-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Blank (BEH0918-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Blank (BEH0918-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Duplicate (BEH0918-DUP1)									
Electrical Conductivity	0.02	0.01	mmhos/cm		0.02			9.30	10
Source: 23H1497-03 Prepared: 8/17/2023 Analyzed: 8/18/2023									
Duplicate (BEH0918-DUP2)									
Electrical Conductivity	0.02	0.01	mmhos/cm		0.02			0.00	10
Source: 23H1590-01 Prepared: 8/17/2023 Analyzed: 8/18/2023									
Reference (BEH0918-SRM1)									
Electrical Conductivity	511		umhos/cm	538.0		94.9	90-110		
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Reference (BEH0918-SRM3)									
Electrical Conductivity	956		umhos/cm	1000		95.6	90-110		
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Reference (BEH0918-SRM4)									
Electrical Conductivity	956		umhos/cm	1000		95.6	90-110		
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Reference (BEH0918-SRM5)									
Electrical Conductivity	971		umhos/cm	1000		97.1	90-110		
Prepared: 8/17/2023 Analyzed: 8/18/2023									

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08/17/23 08:40

23H1580



AN

WATER WORK REQUEST

Bill To: Acct No. 25824 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client **Kerman Cattle Co**
 Address PO Box 370
 City, State, Zip Kerman CA 93630
 Email kermancattle@outlook.com

Copy to: mel_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility: _____

Date sampled _____

Sampled by _____

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SAMPLES

1. <u>Canal</u>	Sampled From: _____
2. _____	Sampled From: _____
3. _____	Sampled From: _____
4. _____	Sampled From: _____
5. _____	Sampled From: _____
6. _____	Sampled From: _____
7. _____	Sampled From: _____
8. _____	Sampled From: _____
9. _____	Sampled From: _____
10. _____	Sampled From: _____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>Medeiros</u>	<u>8/16/23 4:35pm</u>	<u>8/16/23 4:35pm</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>8/16/23 4:35pm</u>	<u>8/16/23</u>
Third	<u>MM</u>	<u>DLI</u>	<u>8/17/23 8:40</u>	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Medeiros Pricing 2023

Sampling Hrs _____ Miles _____ Consulting _____

Shipping _____ In _____ Out _____

Amount Paid _____ Rec By _____ Check No. _____ Date _____

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
 www.dellavallelab.com 559 233-6120 • 800 228-9896 • Fax 559 268-8174

No. of Samples _____ No. Bottles _____

Water Type: ☒ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: (Please Indicate Analysis)

- ☒ EC, NO₃-N
 (1) 1 L plastic, unpreserved (white)
- ☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (1) 1 L plastic, unpreserved (white)

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>8/16/23</u>	<u>3:30pm</u>		<u>0.8</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

☐ Other

Date Sampled Time Sampled Field NH₄-N (mg/L) Received Temp °C

<u>8/16/23</u>	<u>3:30pm</u>		<u>0.8</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

IR Thermometer SN: 200560723
 Correction Factor: 0°C
 Calibration Due: 9/26/2023
 Location: Laboratory

08/17/23 08:40

23H1580

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>														
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest									
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>									
Samples Preserved with HNO₃ or H₂SO₄ were:					<input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory									
Type of Container(s) Received					Sample Number									
					1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)														
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)													
	250 mL unpreserved (White) Plastic													
	250 mL HNO ₃ (Red) Plastic													
	* pH Value													
	250 mL H ₂ SO ₄ (Yellow) Plastic													
	* pH Value													
	500 mL unpreserved (White) Plastic													
	1 L unpreserved (White) Plastic	1												
Special	1 L unpreserved (BOD) (Purple) Plastic													
	500mL unpreserved (White) Glass													
	PO4-P Kit													
	Other:													
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)														
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)													
	250 mL unpreserved (White) Plastic													
	250 mL HNO ₃ (Red) Plastic													
	250 mL H ₂ SO ₄ (Yellow) Plastic													
	500 mL HNO ₃ (Red)													
	1 L unpreserved (White) Plastic													
	1 L unpreserved (BOD) (Purple) Plastic													
	1 L HNO ₃ (Red)													
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)													
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)													
	40mL AG VOA unpreserved (White) (Set of 3)													
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)													
	40mL VOA, H ₃ PO ₄ (Set of 3)													
	40 mL VOA, HCl (Blue) (Set of 3)													
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)													
Glass	250 mL AG unpreserved (White)													
	250 mL AG H ₂ SO ₄ (Yellow)													
	250 mL AG Na ₂ S ₂ O ₃ (Green)													
	250 mL AG Na ₂ S ₂ O ₃ + MCAA													
	500 mL glass unpreserved (White)													
	500 mL AG HCl (Blue)													
	1 L AG unpreserved (White)													
	1 L AG H ₂ SO ₄ (Yellow)													
	1 L AG Na ₂ S ₂ O ₃ (Green)													
1 L AG HCl (Blue)														
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃													
	Cyanide - 500 mL NaOH													
	Asbestos - 1L P wrapped in foil (Set of 2)													
	Sulfide - 1 L AG or P NaOH + ZnAc													
	Chlorite/Bromate - 250 mL AG with EDA													
	HAA5 - 250mL AG Ammonium.Chlorite													
	DO KIT													
	Other:													