

**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 BasinCounty Assessor Parcel Number(s) for dairy facility:  
**B. OPERATORS**

Gailey, Matt

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

Landline

Cellular

PO Box 370

Kerman

Mailing Address Number and Street

City

CA

93630

State

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

Fresno

Mailing Address Number and Street

City

CA

93706

State

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

$$\begin{array}{r}
 43,520,000 \text{ gallons applied} \\
 + 0 \text{ gallons exported} \\
 - 0 \text{ gallons imported} \\
 = 43,520,000 \text{ gallons generated}
 \end{array}$$

**D. FRESH WATER SOURCES**

Source Description	Type
Barn	Ground water
Canal	Surface water

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**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 (%)
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 gal
Application event totals		36.14	4.01	23.93	139.58	
01/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	108.42	12.04	71.78	418.75	1,500,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.48	7,100,000.00 gal
Application event totals		108.42	12.04	71.78	428.23	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	108.42	12.04	71.78	418.75	1,500,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.48	7,100,000.00 gal
Application event totals		108.42	12.04	71.78	428.23	
03/25/2023	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	108.42	12.04	71.78	418.75	1,500,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.48	7,100,000.00 gal
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 gal
Application event totals		0.00	0.00	0.00	14.66	
07/09/2023	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	66.73	7.84	49.63	370.77	1,580,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.66	10,980,000.00 gal
Application event totals		66.73	7.84	49.63	385.43	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.66	10,980,000.00 gal
Application event totals		0.00	0.00	0.00	14.66	
07/29/2023	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	66.73	7.84	49.63	370.77	1,580,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.66	10,980,000.00 gal
Application event totals		66.73	7.84	49.63	385.43	
08/09/2023	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	66.73	7.84	49.63	370.77	1,580,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.66	10,980,000.00 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	14.66	10,980,000.00 gal
Application event totals		80.80	7.51	82.49	589.36	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.66	10,980,000.00 gal
Application event totals		0.00	0.00	0.00	14.66	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	80.80	7.51	82.49	574.69	1,580,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.66	10,980,000.00 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	9.01	4,500,000.00 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.22	7,600,000.00 gal
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 gal
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 gal
Application event totals		0.00	0.00	0.00	9.30	

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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 gal
Canal	Surface water	0.00	0.00	0.00	9.30	6,500,000.00 gal
Application event totals		195.54	21.72	129.47	764.55	
03/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.30	6,500,000.00 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.02	10,500,000.00 gal
Application event totals		100.69	11.83	74.88	574.44	

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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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.02	10,500,000.00 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.02	10,500,000.00 gal
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 gal
Application event totals		0.00	0.00	0.00	1.50	

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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 gal
Canal	Surface water	0.00	0.00	0.00	15.02	10,500,000.00 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	8.40	5,450,000.00 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	8.40	5,450,000.00 gal
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 gal
Application event totals		0.00	0.00	0.00	8.40	

4 - 06/01/2023: Corn, silage

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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 gal
Application event totals		0.00	0.00	0.00	14.68	
07/09/2023	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	76.27	8.96	56.72	423.74	1,565,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.68	9,530,000.00 gal
Application event totals		76.27	8.96	56.72	438.43	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.68	9,530,000.00 gal
Application event totals		0.00	0.00	0.00	14.68	
07/29/2023	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	76.27	8.96	56.72	423.74	1,565,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.68	9,530,000.00 gal
Application event totals		76.27	8.96	56.72	438.43	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.68	9,530,000.00 gal
Application event totals		0.00	0.00	0.00	14.68	

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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 gal
Canal	Surface water	0.00	0.00	0.00	14.68	9,530,000.00 gal
Application event totals		92.34	8.58	94.27	671.50	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.68	9,530,000.00 gal
Application event totals		0.00	0.00	0.00	14.68	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.68	9,530,000.00 gal
Application event totals		0.00	0.00	0.00	14.68	

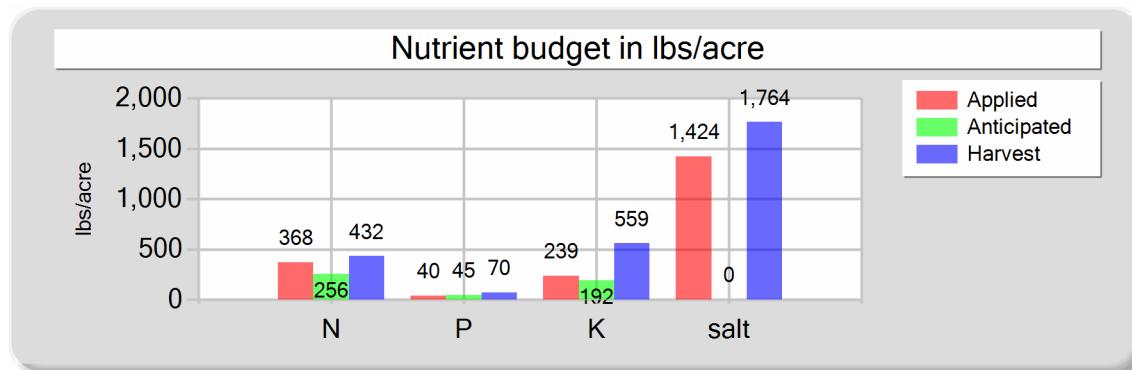
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**B. NUTRIENT BUDGET**

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)
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	361.40	40.15	239.28	1,395.84
Fresh water	0.00	0.00	0.00	28.44
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>368.40</b>	<b>40.15</b>	<b>239.28</b>	<b>1,424.28</b>
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
Nutrient balance	-63.21	-29.57	-319.89	-339.24
Applied to removed ratio	0.85	0.58	0.43	0.81

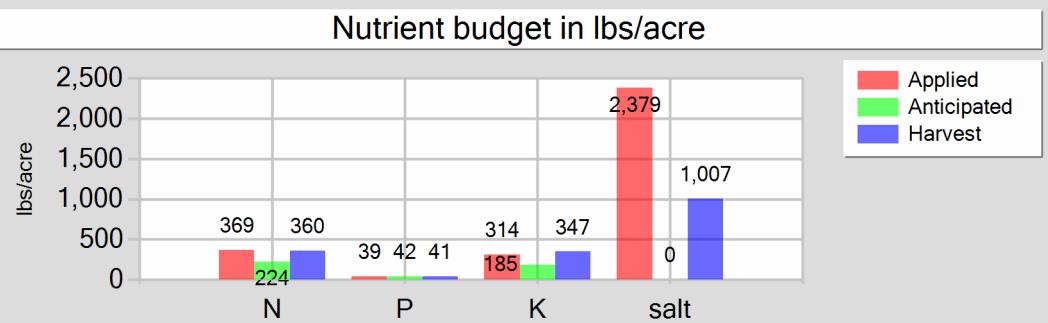
Fresh water applied
21,300,000.00 gallons
784.41 acre-inches
10.46 inches/acre
Process wastewater applied
5,000,000.00 gallons
184.13 acre-inches
2.46 inches/acre
Total harvests for the crop
1 harvests

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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)
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	361.80	38.54	313.86	2,261.68
Fresh water	0.00	0.00	0.00	117.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	368.80	38.54	313.86	2,378.97
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
Nutrient balance	9.25	-2.77	-33.45	1,372.23
Applied to removed ratio	1.03	0.93	0.90	2.36

**Fresh water applied**  
87,840,000.00 gallons  
3,234.85 acre-inches  
43.13 inches/acre

**Process wastewater applied**  
7,900,000.00 gallons  
290.93 acre-inches  
3.88 inches/acre

**Total harvests for the crop**  
1 harvests

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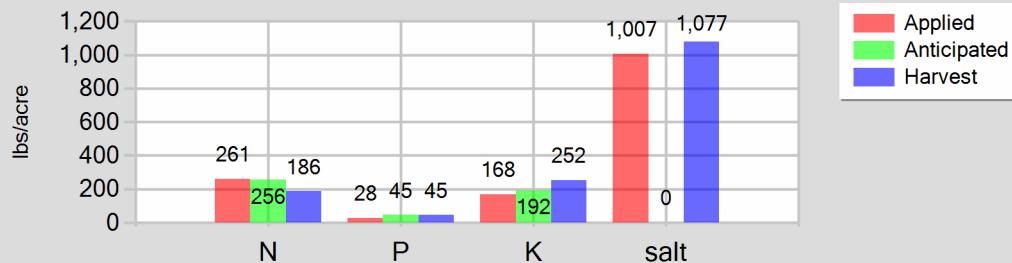
2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	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 gallons  
497.16 acre-inches  
9.94 inches/acre

**Process wastewater applied**

2,340,000.00 gallons  
86.17 acre-inches  
1.72 inches/acre

**Total harvests for the crop**

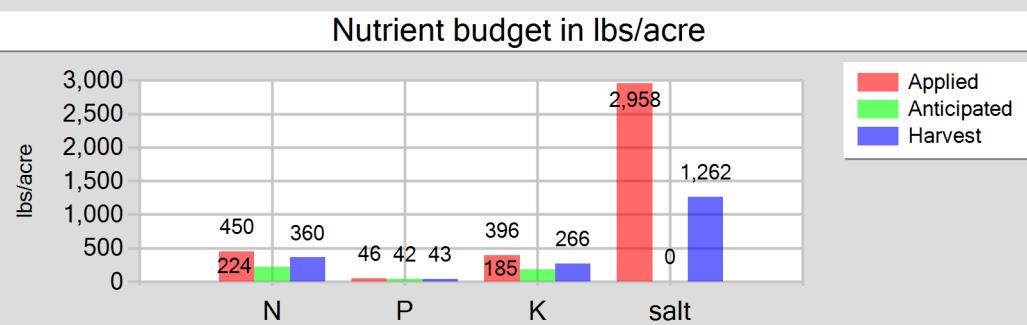
1 harvests

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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)
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	442.60	46.04	396.34	2,836.38
Fresh water	0.00	0.00	0.00	121.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	449.60	46.04	396.34	2,958.15
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
Nutrient balance	89.96	2.75	129.94	1,696.08
Applied to removed ratio	1.25	1.06	1.49	2.34

**Fresh water applied**  
60,800,000.00 gallons  
2,239.06 acre-inches  
44.78 inches/acre

**Process wastewater applied**  
6,320,000.00 gallons  
232.74 acre-inches  
4.65 inches/acre

**Total harvests for the crop**  
1 harvests

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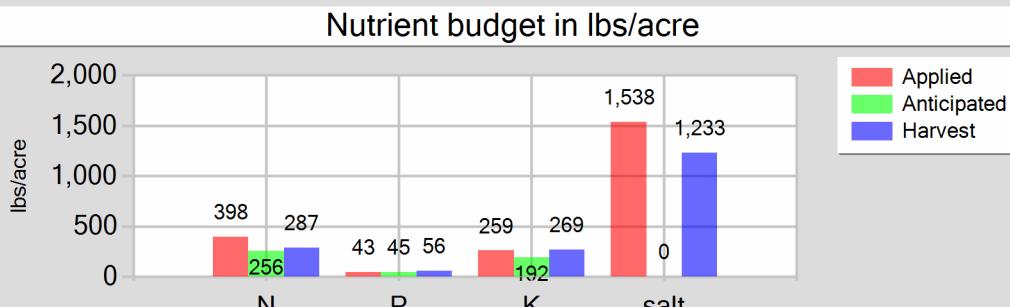
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3 - 11/01/2022: Wheat, silage, boot stage

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**

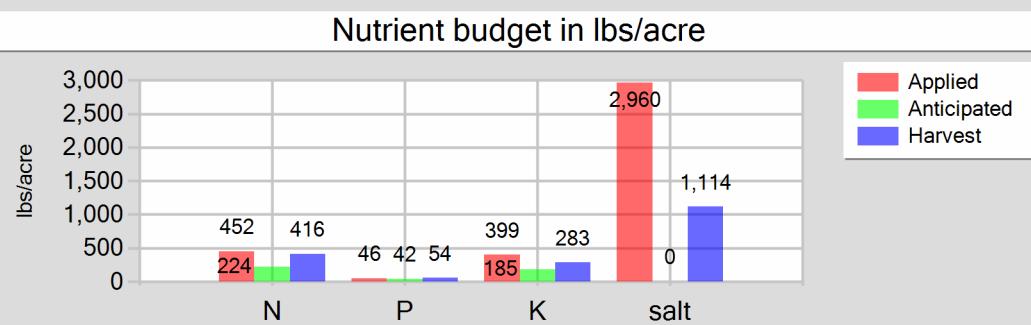
1 harvests

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3 - 06/01/2023: Corn, silage

Field name: 3      Crop: Corn, silage      Plant date: 06/01/2023



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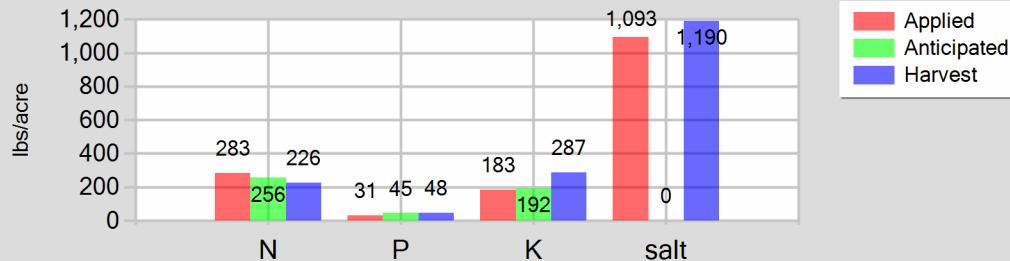
4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	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**

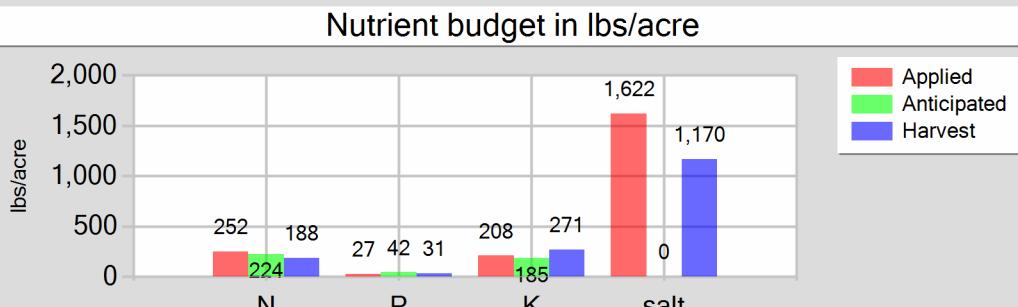
1 harvests

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4 - 06/01/2023: Corn, silage

Field name: 4      Crop: Corn, silage      Plant date: 06/01/2023



	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	76,240,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,807.66 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	43.19 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	244.88	26.50	207.71	1,504.30	Process wastewater applied
Fresh water	0.00	0.00	0.00	117.46	4,695,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	172.90 acre-inches
Total nutrients applied	251.88	26.50	207.71	1,621.76	2.66 inches/acre
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	Total harvests for the crop
Nutrient balance	63.78	-4.85	-63.04	451.83	1 harvests
Applied to removed ratio	1.34	0.85	0.77	1.39	

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**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
------

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

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 ( $\mu$ mhos/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 ( $\mu$ mhos/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

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

*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 (%)
<b>Value</b>	29,100.00	4,700.00	37,700.00		11.89
<b>DL</b>	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 (%)
<b>Value</b>	23,500.00	2,700.00	22,700.00		6.58
<b>DL</b>	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 (%)
<b>Value</b>	17,100.00	4,100.00	23,200.00		9.91
<b>DL</b>	100.00	100.00	100.00		1.00

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

*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 (%)
<b>Value</b>	21,600.00	2,600.00	16,000.00		7.58
<b>DL</b>	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 (%)
<b>Value</b>	23,000.00	4,500.00	21,500.00		9.87
<b>DL</b>	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 (%)
<b>Value</b>	23,700.00	3,100.00	16,100.00		6.35
<b>DL</b>	100.00	100.00	100.00		1.00

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

*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 (%)
<b>Value</b>	18,500.00	3,900.00	23,500.00		9.75
<b>DL</b>	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 (%)
<b>Value</b>	13,200.00	2,200.00	19,000.00		8.21
<b>DL</b>	100.00	100.00	100.00		1.00

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

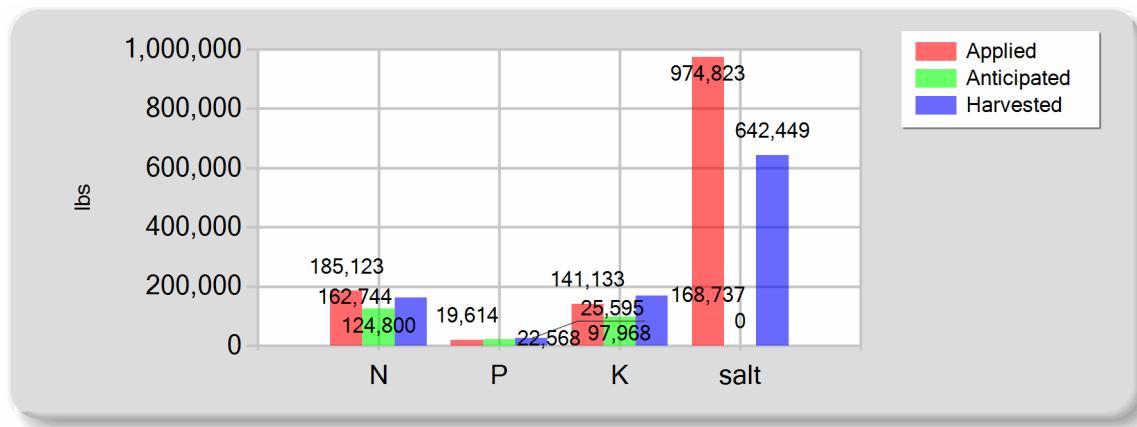
*No subsurface (tile) drainage analyses entered.*

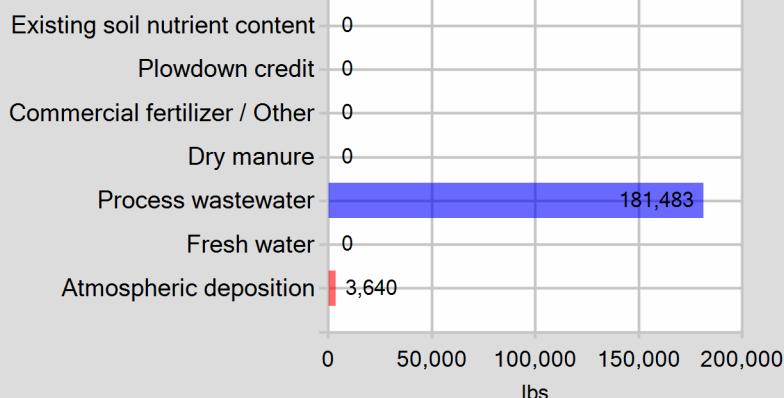
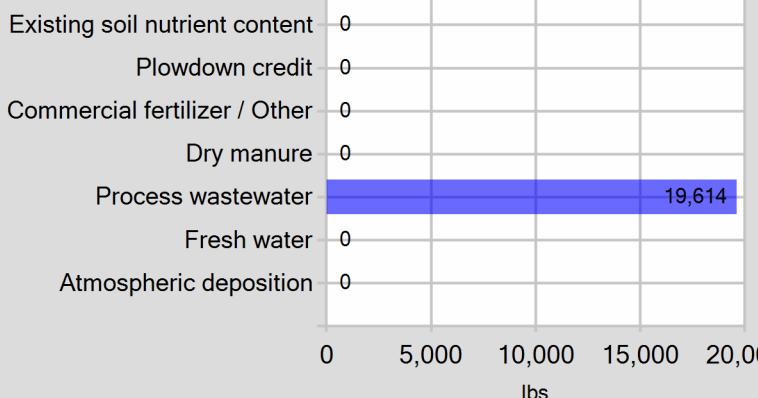
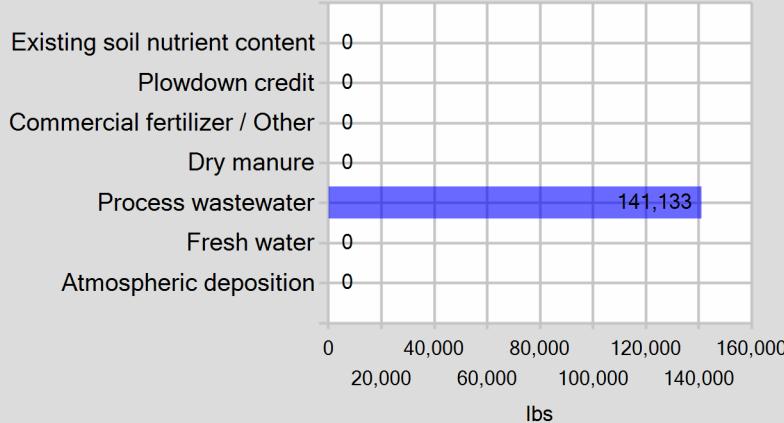
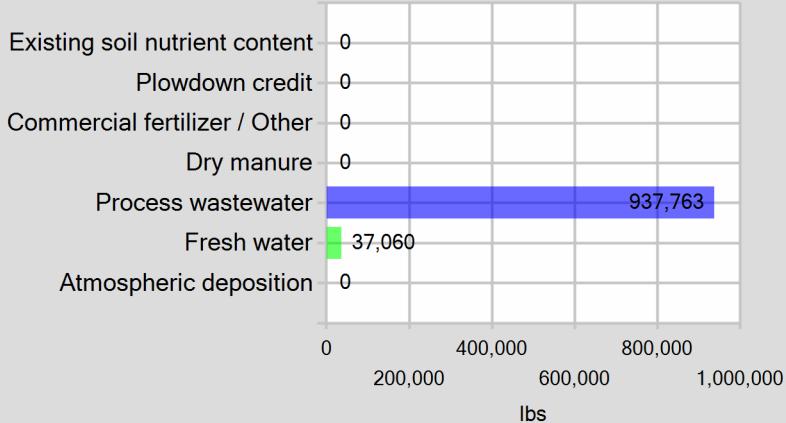
**Annual Report - General Order No. R5-2007-0035**

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
<b>Total nutrients applied</b>	<b>185,122.88</b>	<b>19,613.97</b>	<b>141,133.20</b>	<b>974,823.18</b>
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**

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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

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

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

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

---

SIGNATURE OF OPERATOR OF FACILITY

Matt Gailey

PRINT OR TYPE NAME

---

DATE

---

DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Corrective Actions Documents**

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

**Groundwater Monitoring**

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

**Storm Water Monitoring**

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

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

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

**CERTIFICATION**

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

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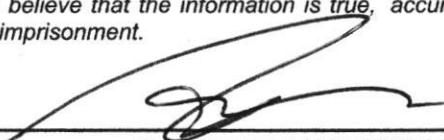
SIGNATURE OF OWNER OF FACILITY

Bos Capital

PRINT OR TYPE NAME

W27124

DATE



SIGNATURE OF OPERATOR OF FACILITY

Matt Gailey

PRINT OR TYPE NAME

W27124

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 Number and Street	Fresno City	Fresno County	93706 Zip Code
---------------------------------------	----------------	------------------	-------------------

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

**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: Burrows Brothers Trucking

Address of Hauling Company/Person:

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

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

13265 Kerman Address	Kerman City	CA State	93656 Zip Code
-------------------------	----------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

Address	Kerman City	93656 Zip Code
---------	----------------	-------------------

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

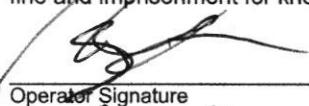
Manure Solids Content: 71.1 %

Method used to determine amount of manure:

Weighted Average

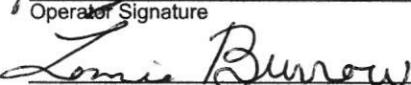
**CERTIFICATION**

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

01/27/24

Date

  
Hauler Signature

01/27/24

Date



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

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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
<b>Electrical Conductivity</b>	<b>1.12</b>	mmhos/cm	0.01	1		12/13/23 16:09	SM 2510 B		BEL0496
<b>Electrical Conductivity umhos</b>	<b>1120</b>	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
<b>Nitrate Nitrogen as NO3N</b>	<b>0.7</b>	mg/L	0.1	1	10	12/14/23 07:23	EPA 300.0		BEL0569
<b>Temperature</b>	<b>25.0</b>	units	0.0	1		12/13/23 16:09	SM 4500-H+	H	BEL0496
<b>pH</b>	<b>7.7</b>	units	1.0	1		12/13/23 16:09	SM 4500-H+	H	BEL0496

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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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0496</b>									
<b>Blank (BEL0496-BLK1)</b>									
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						
Prepared & Analyzed: 12/13/2023									
<b>Blank (BEL0496-BLK2)</b>									
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						
Prepared & Analyzed: 12/13/2023									
<b>Blank (BEL0496-BLK3)</b>									
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						
Prepared & Analyzed: 12/13/2023									
<b>Duplicate (BEL0496-DUP1)</b>									
Source: 23L0678-01									
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
Prepared & Analyzed: 12/13/2023									
<b>Duplicate (BEL0496-DUP2)</b>									
Source: 23L0687-04									
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
Prepared & Analyzed: 12/13/2023									
<b>Reference (BEL0496-SRM1)</b>									
Electrical Conductivity	444		umhos/cm		426.0		104	90-110	
Prepared & Analyzed: 12/13/2023									
<b>Reference (BEL0496-SRM2)</b>									
pH	7.5		units		7.520		100	67021-101.3%	
Prepared & Analyzed: 12/13/2023									
<b>Reference (BEL0496-SRM3)</b>									
Electrical Conductivity	1070		umhos/cm		1000		107	90-110	
Electrical Conductivity umhos	1070		umhos/cm		1000		107	90-110	
Prepared & Analyzed: 12/13/2023									
<b>Reference (BEL0496-SRM4)</b>									
Electrical Conductivity	1080		umhos/cm		1000		108	90-110	
Electrical Conductivity umhos	1080		umhos/cm		1000		108	90-110	
Prepared & Analyzed: 12/13/2023									
<b>Reference (BEL0496-SRM5)</b>									
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	Limits	RPD	RPD Limit
<b>Batch: BEL0496 (Continued)</b>									
<b>Reference (BEL0496-SRM5)</b>									
Electrical Conductivity umhos	1090		umhos/cm	1000	109	90-110			
<b>Reference (BEL0496-SRM6)</b>									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEL0496-SRM7)</b>									
pH	4.0		units	4.000	101	97.5-102.5			
<b>Reference (BEL0496-SRM8)</b>									
pH	4.0		units	4.000	100	97.5-102.5			

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PO Box 370  
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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	Limits	RPD	RPD Limit
<b>Batch: BEL0569</b>									
<b>Blank (BEL0569-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/14/2023				
<b>Blank (BEL0569-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/14/2023				
<b>Blank (BEL0569-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/14/2023				
<b>Blank (BEL0569-BLK4)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/14/2023				
<b>LCS (BEL0569-BS1)</b>									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	99.3	90-110			
<b>LCS (BEL0569-BS2)</b>									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	103	90-110			
<b>LCS (BEL0569-BS3)</b>									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	98.7	90-110			
<b>Duplicate (BEL0569-DUP1)</b>									
Nitrate Nitrogen as NO3N	0.06	0.1	mg/L	0.06			1.77	10	
<b>Duplicate (BEL0569-DUP2)</b>									
Nitrate Nitrogen as NO3N	0.06	0.1	mg/L	0.06			0.00	10	
<b>Duplicate (BEL0569-DUP3)</b>									
Nitrate Nitrogen as NO3N	0.06	0.1	mg/L	0.05			1.83	10	
<b>Matrix Spike (BEL0569-MS1)</b>									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	0.06	98.6	90-110		
<b>Matrix Spike (BEL0569-MS2)</b>									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.06	94.2	90-110		
<b>Matrix Spike (BEL0569-MS3)</b>									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.05	94.1	90-110		
<b>Reference (BEL0569-SRM1)</b>									
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00	97.4	90-110			
<b>Reference (BEL0569-SRM2)</b>									
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	Limits	RPD	RPD Limit
---------	-------------	-----------------	-------	-------------	---------------	------	--------	-----	-----------

***Batch: BEL0569 (Continued)***

<b>Reference (BEL0569-SRM3)</b> Nitrate Nitrogen as NO <sub>3</sub> N	9.9	mg/L	10.00	99.0	Prepared & Analyzed: 12/14/2023	90-110			
<b>Reference (BEL0569-SRM4)</b> Nitrate Nitrogen as NO <sub>3</sub> N	10.0	mg/L	10.00	99.7	Prepared & Analyzed: 12/14/2023	90-110			

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12/13/23 07:00

23L0669

**WATER WORK REQUEST**

Bill To: 25824 Acct No. 8 Cons.

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

Client **Kerman Cattle Co**  
 Address PO Box 370  
 City, State, Zip Kerman CA 93630  
 Email [kermancattle@outlook.com](mailto:kermancattle@outlook.com)

Copy to: mel\_tinamedeiros@yahoo.com

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

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

Date sampled: \_\_\_\_\_

Sampled by: Medeiros

QA/QC Document     Copy of Chain     RWQCB

**DESCRIPTION OF SAMPLES**

1. Barn 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>Y</u>	_____	_____	<u>12/12/23 11:32AM</u>
Second	<u>Medeiros</u>	OU	<u>12/12/23 11:32AM</u>	_____
Third	_____	_____	_____	_____
Fourth	<u>AT</u>	ACI	<u>12/13 07:00</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:****Medeiros Pricing 2023**

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

**Shipping**

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

ctt:update 2020



12/13/23 07:00

23L0669

<b>Shipping Information:</b> 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 type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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
<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (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:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	250 mL AG unpreserved (White)									
Glass	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
Special	1 L AG HCl (Blue)									
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	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

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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

### 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
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:11	SM 2510 B		BEH0918
Nitrate Nitrogen as NO <sub>3</sub> N	ND	mg/L	0.1	1	10	08/17/23 20:52	EPA 300.0		BEH0886

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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

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

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

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08/17/23 08:40

23H1580

## **WATER WORK REQUEST**

Bill To: 25824 Acct No. 8 Cons.

---

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

Purchase Order No.	Results Needed By
Client _____	<b>Kerman Cattle Co</b>
Address _____	PO Box 370
City, State, Zip _____	Kerman CA 93630
Email _____	<a href="mailto:kermancattle@outlook.com">kermancattle@outlook.com</a>

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

#### DESCRIPTION OF SAMPLES

- |     |       |               |
|-----|-------|---------------|
| 1.  | Canal | 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>John Mada</u>	Medenovo		8/16/23 4:35pm
Second	<u>Bonita Mada</u>	DLI	8/16/23 4:35pm	8/16/23
Third	MM	DLI	8/17/23 8:40	
Fourth				

I guarantee that as the client, or on behalf of the client, I have the authority to confess the above requested services. Should it be found that I do not have such authority, I agree to personally forfeit all costs, if there should be no action taken whenever this is greater.

If a party to this agreement is not satisfied with the results of arbitration, concerning the products or services of Delavalia 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 arbitration will be chosen to hear the dispute through cal's Rules and Procedures. The party 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.

*Invoicing Information:* **Medeiros Pricing 2023** *Shipping*

Sampling Hrs	Miles	Consulting	\$	In
			\$	Out
<hr/>			<hr/>	
Amt Paid	Rec By	Check No.	Date	

Sample received in cooler with ice?

U.S. No. 1

ctt:update 2020

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

<b>Shipping Information:</b> 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"/> <i>8/22</i>											
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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	
<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	* pH Value										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
1 L unpreserved (White) Plastic	1										
1 L unpreserved (BOD) (Purple) Plastic											
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	500 mL HNO <sub>3</sub> (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
VOA Vials	1 L HNO <sub>3</sub> (Red)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	250 mL AG unpreserved (White)										
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
Special	1 L AG unpreserved (White)										
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	1 L AG HCl (Blue)										
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										
	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:											