

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: Bar E Dairy

Physical address of dairy:

6970 Corona AVE

Number and Street

Kingsburg

City

Kings

County

93631

Zip Code

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

Date facility was originally placed in operation: 06/01/1920

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X002-X070-X068-XXXX X002-X070-X091-XXXX

B. OPERATORS

Evangelo, Anthony

Operator name: Evangelo, Anthony

Telephone no.: (559) 583-1068

Landline

Cellular

6970 Corona AVE

Kingsburg

CA

93631

Mailing Address Number and Street

City

State

Zip Code

C. OWNERS

Evangelo Land Co.

Legal owner name: Evangelo Land Co.

Telephone no.: (559) 583-1068

Landline

Cellular

6970 Corona AVE

Kingsburg

CA

93631

Mailing Address Number and Street

City

State

Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	138	0	0	0	0
Number under roof	938	0	0	0	0	0
Maximum number	1,000	158	0	0	0	0
Average number	969	148	0	0	0	0
Avg live weight (lbs)	1,400	1,500	0	0		

Predominant milk cow breed: Jersey

Average milk production: 64 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 26,361.87 tons per reporting period

Total nitrogen from manure: 343,071.97 lbs per reporting period

After ammonia losses (30% loss applied): 240,150.38 lbs per reporting period

Total phosphorus from manure: 56,942.65 lbs per reporting period

Total potassium from manure: 181,752.64 lbs per reporting period

Total salt from manure: 490,286.25 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 7,077,000 gallons

Total nitrogen generated: 59,266.75 lbs

$$\begin{array}{r}
 7,077,000 \text{ gallons applied} \\
 + \quad \quad \quad 0 \text{ gallons exported} \\
 - \quad \quad \quad 0 \text{ gallons imported} \\
 = \quad \quad \quad 7,077,000 \text{ gallons generated}
 \end{array}$$

Total phosphorus generated: 8,529.81 lbs

Total potassium generated: 85,572.13 lbs

Total salt generated: 400,093.10 lbs

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
House Well	Ground water
Well 1	Ground water
Well 3	Ground water
Well 4	Ground 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

No solid nutrient exports entered.

No liquid nutrient exports entered.

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 1	6	6	2	process wastewater	0002-0070-0021-0000
Field 2	14	14	2	process wastewater	0002-0070-0068-0000
Field 6	31	31	2	process wastewater	0002-0110-0012-0000 0002-0110-0025-0000
Field 7	45	45	2	process wastewater	0002-0110-0014-0000 0002-0110-0025-0000
Totals for areas that were used for application	96	96	8		
Totals for areas that were not used for application					
Land application area totals	96	96	8		

B. CROPS AND HARVESTS

Field 1

Field name: Field 1

11/12/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 6 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	141.00 ton	As-is		67.1	6,000.00	3,100.00	12,700.00		13.30
Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)									
Anticipated harvest content	24.00	355.20	148.80	513.60	0.00				
Total actual harvest content	23.50	282.00	145.70	596.90	2,056.58				

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Field 1

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 6 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	175.00 ton	As-is		68.2	4,400.00	2,200.00	6,300.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	201.60	110.40	355.20	0.00
Total actual harvest content	29.17	256.67	128.33	367.50	1,372.70

Field 2

Field name: Field 2

11/12/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 10 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	214.50 ton	As-is		54.9	9,600.00	4,600.00	20,200.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	355.20	148.80	513.60	0.00
Total actual harvest content	21.45	411.84	197.34	866.58	2,186.31

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 10 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	235.00 ton	As-is		65.5	4,800.00	2,500.00	7,600.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	226.80	124.20	399.60	0.00
Total actual harvest content	23.50	225.60	117.50	357.20	1,086.41

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Field 6

Field name: Field 6

11/12/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 31 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	743.00 ton	As-is		71.1	5,200.00	2,500.00	10,400.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	355.20	148.80	513.60	0.00
Total actual harvest content	23.97	249.26	119.84	498.53	1,454.60

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 31 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	853.50 ton	As-is		68.4	4,200.00	1,900.00	6,200.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	235.20	128.80	414.40	0.00
Total actual harvest content	27.53	231.27	104.62	341.40	1,165.83

Field 7

Field name: Field 7

11/13/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 45 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,018.50 ton	As-is		65.2	6,700.00	1,700.00	10,000.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	355.20	148.80	513.60	0.00
Total actual harvest content	22.63	303.29	76.95	452.67	1,465.01

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Field 7

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	1,325.20 <i>ton</i>	As-is		66.4	4,600.00	2,000.00	7,600.00		8.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	235.20	128.80	414.40	0.00
Total actual harvest content	29.45	270.93	117.80	447.62	1,662.33

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

Field 1 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/10/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	106.63	16.01	171.74	870.38
Well 1	Ground water	31.54	0.00	0.00	618.87
Application event totals		138.17	16.01	171.74	1,489.25
03/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	115.70	14.37	149.54	540.92
Well 1	Ground water	21.69	0.00	0.00	425.47
Application event totals		137.38	14.37	149.54	966.39
04/25/2023	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)
Lagoon	Process wastewater	96.47	14.72	130.56	630.88
Canal	Surface water	0.00	0.00	0.00	10.23
Application event totals		96.47	14.72	130.56	641.11

Field 1 - 06/17/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 1 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	160.79	24.53	217.60	1,051.47	105,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.64	720,000.00 gal
Application event totals		160.79	24.53	217.60	1,065.11	
06/12/2023	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	11.93	630,000.00 gal
Application event totals		0.00	0.00	0.00	11.93	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.47	14.72	130.56	630.88	63,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.23	540,000.00 gal
Application event totals		96.47	14.72	130.56	641.11	
07/06/2023	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	12.79	675,000.00 gal
Application event totals		0.00	0.00	0.00	12.79	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.07	7.99	126.18	549.39	63,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.93	630,000.00 gal
Application event totals		71.07	7.99	126.18	561.33	

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Field 1 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.64	720,000.00 gal
Application event totals		0.00	0.00	0.00	13.64	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.79	675,000.00 gal
Application event totals		0.00	0.00	0.00	12.79	
08/25/2023	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
Canal	Surface water	0.00	0.00	0.00	12.79	675,000.00 gal
Application event totals		0.00	0.00	0.00	12.79	
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
Canal	Surface water	0.00	0.00	0.00	11.93	630,000.00 gal
Application event totals		0.00	0.00	0.00	11.93	

Field 2 - 11/12/2022: Wheat, silage, boot stage

Field name:	Field 2	Plant date:	11/12/2022			
Crop:	Wheat, silage, boot stage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	127.96	19.21	206.09	1,044.46	168,000.00 gal
Well 1	Ground water	37.85	0.00	0.00	742.64	1,440,000.00 gal
Application event totals		165.81	19.21	206.09	1,787.10	

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Field 2 - 11/12/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	138.84	17.24	179.45	649.11	168,000.00 gal
Well 1	Ground water	26.02	0.00	0.00	510.56	990,000.00 gal
Application event totals		164.86	17.24	179.45	1,159.67	
04/25/2023	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
Lagoon	Process wastewater	115.77	17.66	156.67	757.06	126,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.28	1,080,000.00 gal
Application event totals		115.77	17.66	156.67	769.33	

Field 2 - 06/17/2023: Corn, silage

Field name: Field 2

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	115.77	17.66	156.67	757.06	126,000.00 gal
Canal	Surface water	0.00	0.00	0.00	16.37	1,440,000.00 gal
Application event totals		115.77	17.66	156.67	773.43	
06/12/2023	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	12.79	1,125,000.00 gal
Application event totals		0.00	0.00	0.00	12.79	

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Field 2 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.47	14.72	130.56	630.88	105,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.28	1,080,000.00 gal
Application event totals		96.47	14.72	130.56	643.16	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.30	1,170,000.00 gal
Application event totals		0.00	0.00	0.00	13.30	
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
Lagoon	Process wastewater	71.07	7.99	126.18	549.39	105,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.28	1,080,000.00 gal
Application event totals		71.07	7.99	126.18	561.67	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.30	1,170,000.00 gal
Application event totals		0.00	0.00	0.00	13.30	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.79	1,125,000.00 gal
Application event totals		0.00	0.00	0.00	12.79	
08/25/2023	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
Canal	Surface water	0.00	0.00	0.00	12.79	1,125,000.00 gal
Application event totals		0.00	0.00	0.00	12.79	

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Field 2 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	12.28	1,080,000.00 gal
Application event totals		0.00	0.00	0.00	12.28	

Field 6 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	123.83	18.59	199.44	1,010.77	504,000.00 gal
Well 1	Ground water	36.63	0.00	0.00	718.68	4,320,000.00 gal
Application event totals		160.46	18.59	199.44	1,729.45	
03/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	67.18	8.34	86.83	314.08	252,000.00 gal
Well 1	Ground water	32.43	0.00	0.00	636.33	3,825,000.00 gal
Application event totals		99.61	8.34	86.83	950.42	
04/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	74.69	11.40	101.08	488.42	252,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.86	3,780,000.00 gal
Application event totals		74.69	11.40	101.08	502.28	

Field 6 - 06/19/2023: Corn, silage

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Field 6 - 06/19/2023: Corn, silage

Field name: Field 6

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	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
Lagoon	Process wastewater	136.93	20.89	185.31	895.45	462,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.86	3,780,000.00 gal
Application event totals		136.93	20.89	185.31	909.30	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.54	3,420,000.00 gal
Application event totals		0.00	0.00	0.00	12.54	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	99.58	15.20	134.77	651.23	336,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.88	3,240,000.00 gal
Application event totals		99.58	15.20	134.77	663.11	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.70	3,465,000.00 gal
Application event totals		0.00	0.00	0.00	12.70	
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
Lagoon	Process wastewater	59.61	6.70	105.83	460.78	273,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.55	3,150,000.00 gal
Application event totals		59.61	6.70	105.83	472.33	

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Field 6 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.87	3,510,000.00 gal
Application event totals		0.00	0.00	0.00	12.87	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.70	3,465,000.00 gal
Application event totals		0.00	0.00	0.00	12.70	
08/25/2023	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
Canal	Surface water	0.00	0.00	0.00	12.54	3,420,000.00 gal
Application event totals		0.00	0.00	0.00	12.54	
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
Canal	Surface water	0.00	0.00	0.00	12.54	3,420,000.00 gal
Application event totals		0.00	0.00	0.00	12.54	

Field 7 - 11/13/2022: Wheat, silage, boot stage

Field name: Field 7

Crop: Wheat, silage, boot stage

Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	156.39	23.48	251.89	1,276.56	924,000.00 gal
Well 1	Ground water	28.92	0.00	0.00	567.29	4,950,000.00 gal
Application event totals		185.31	23.48	251.89	1,843.86	

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Field 7 - 11/13/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	92.56	11.50	119.63	432.74	504,000.00 gal
Well 1	Ground water	28.13	0.00	0.00	551.82	4,815,000.00 gal
Application event totals		120.68	11.50	119.63	984.56	
04/25/2023	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
Lagoon	Process wastewater	102.90	15.70	139.26	672.94	504,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.28	4,860,000.00 gal
Application event totals		102.90	15.70	139.26	685.22	

Field 7 - 06/19/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	154.36	23.55	208.89	1,009.41	756,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.62	4,995,000.00 gal
Application event totals		154.36	23.55	208.89	1,022.03	
06/14/2023	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	12.96	5,130,000.00 gal
Application event totals		0.00	0.00	0.00	12.96	

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Field 7 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/26/2023	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
Lagoon	Process wastewater	120.05	18.32	162.47	785.10	588,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.28	4,860,000.00 gal
Application event totals		120.05	18.32	162.47	797.37	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.18	5,220,000.00 gal
Application event totals		0.00	0.00	0.00	13.18	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	69.49	7.81	123.37	537.18	462,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.16	4,815,000.00 gal
Application event totals		69.49	7.81	123.37	549.35	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.96	5,130,000.00 gal
Application event totals		0.00	0.00	0.00	12.96	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.41	5,310,000.00 gal
Application event totals		0.00	0.00	0.00	13.41	
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	13.18	5,220,000.00 gal
Application event totals		0.00	0.00	0.00	13.18	

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

Field 7 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
Canal	Surface water	0.00	0.00	0.00	13.07
Application event totals		0.00	0.00	0.00	13.07
					Amount

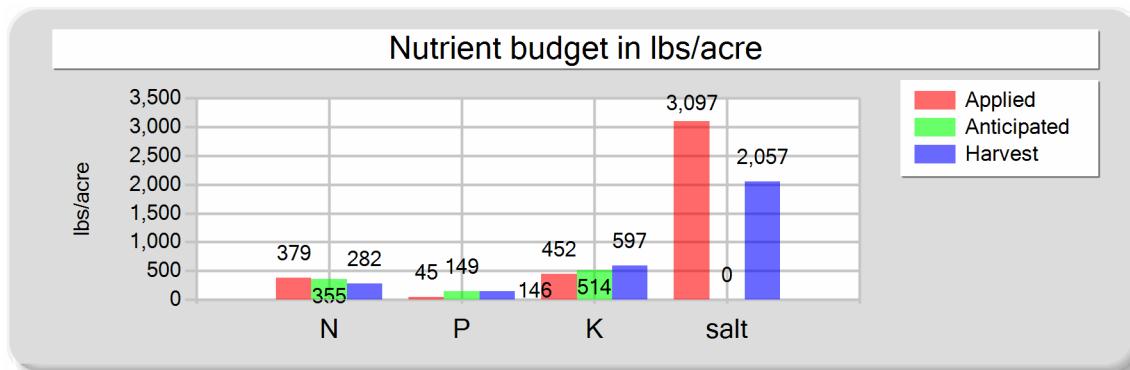
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Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

Field 1 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 1 Crop: Wheat, silage, boot stage Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	318.80	45.10	451.84	2,042.19
Fresh water	53.23	0.00	0.00	1,054.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	379.03	45.10	451.84	3,096.75
Anticipated crop nutrient removal	355.20	148.80	513.60	0.00
Actual crop nutrient removal	282.00	145.70	596.90	2,056.58
Nutrient balance	97.03	-100.60	-145.06	1,040.17
Applied to removed ratio	1.34	0.31	0.76	1.51

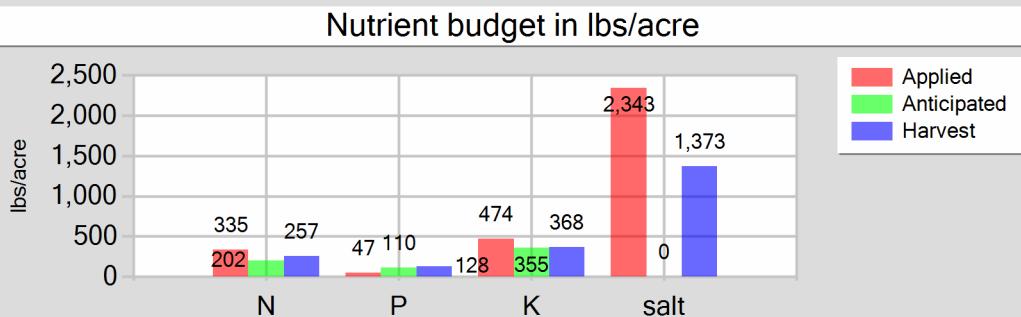
Fresh water applied
1,755,000.00 gallons
64.63 acre-inches
10.77 inches/acre
Process wastewater applied
231,000.00 gallons
8.51 acre-inches
1.42 inches/acre
Total harvests for the crop
1 harvests

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

Field 1 - 06/17/2023: Corn, silage

Field name: Field 1 Crop: Corn, silage Plant date: 06/17/2023



	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	328.33	47.25	474.33	2,231.75
Fresh water	0.00	0.00	0.00	111.67
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	335.33	47.25	474.33	2,343.41
Anticipated crop nutrient removal	201.60	110.40	355.20	0.00
Actual crop nutrient removal	256.67	128.33	367.50	1,372.70
Nutrient balance	78.66	-81.09	106.83	970.71
Applied to removed ratio	1.31	0.37	1.29	1.71

Fresh water applied

5,895,000.00 gallons
217.09 acre-inches
36.18 inches/acre

Process wastewater applied

231,000.00 gallons
8.51 acre-inches
1.42 inches/acre

Total harvests for the crop

1 harvests

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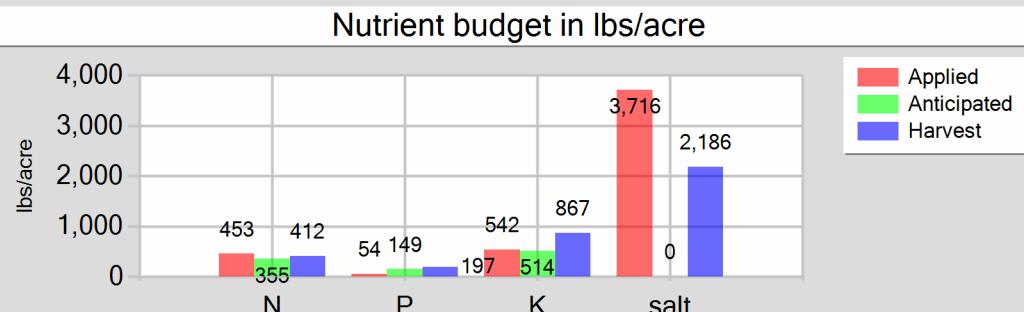
Reporting period 01/01/2023 to 12/31/2023.

Field 2 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	382.56	54.12	542.21	2,450.63
Fresh water	63.88	0.00	0.00	1,265.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	453.44	54.12	542.21	3,716.10
Anticipated crop nutrient removal	355.20	148.80	513.60	0.00
Actual crop nutrient removal	411.84	197.34	866.58	2,186.31
Nutrient balance	41.60	-143.22	-324.37	1,529.79
Applied to removed ratio	1.10	0.27	0.63	1.70

Fresh water applied

3,510,000.00 gallons
129.26 acre-inches
12.93 inches/acre

Process wastewater applied

462,000.00 gallons
17.01 acre-inches
1.70 inches/acre

Total harvests for the crop

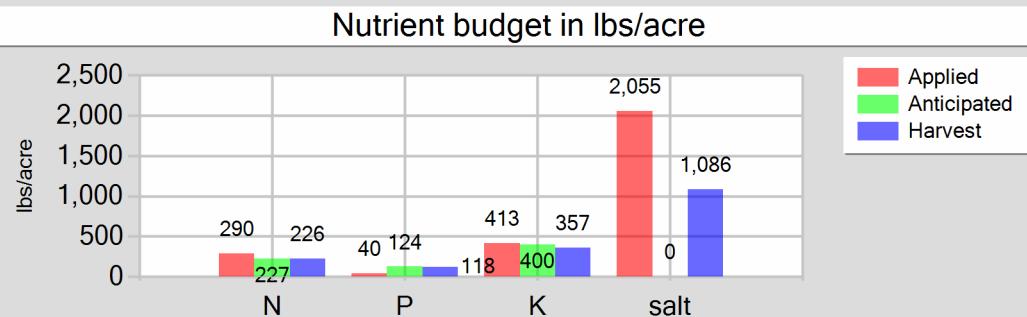
1 harvests

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

Field 2 - 06/17/2023: Corn, silage

Field name: Field 2 Crop: Corn, silage Plant date: 06/17/2023



	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	283.31	40.38	413.40	1,937.33
Fresh water	0.00	0.00	0.00	118.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	290.31	40.38	413.40	2,055.48
Anticipated crop nutrient removal	226.80	124.20	399.60	0.00
Actual crop nutrient removal	225.60	117.50	357.20	1,086.41
Nutrient balance	64.71	-77.12	56.20	969.08
Applied to removed ratio	1.29	0.34	1.16	1.89

Fresh water applied

10,395,000.00 gallons
382.81 acre-inches
38.28 inches/acre

Process wastewater applied

336,000.00 gallons
12.37 acre-inches
1.24 inches/acre

Total harvests for the crop

1 harvests

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

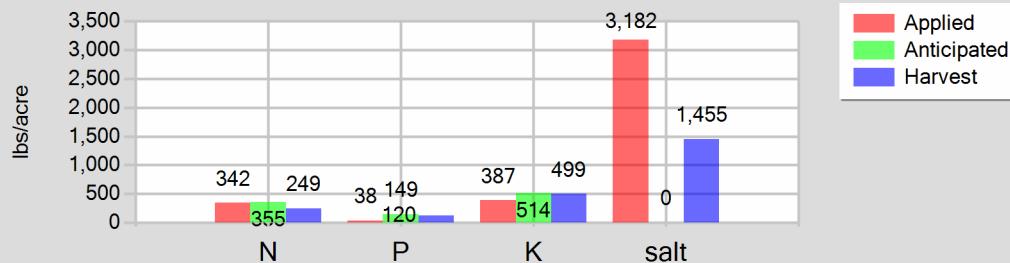
Field 6 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/12/2022

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	265.70	38.33	387.35	1,813.28
Fresh water	69.07	0.00	0.00	1,368.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	341.76	38.33	387.35	3,182.15
Anticipated crop nutrient removal	355.20	148.80	513.60	0.00
Actual crop nutrient removal	249.26	119.84	498.53	1,454.60
Nutrient balance	92.50	-81.51	-111.18	1,727.55
Applied to removed ratio	1.37	0.32	0.78	2.19

Fresh water applied

11,925,000.00 gallons
439.16 acre-inches
14.17 inches/acre

Process wastewater applied

1,008,000.00 gallons
37.12 acre-inches
1.20 inches/acre

Total harvests for the crop

1 harvests

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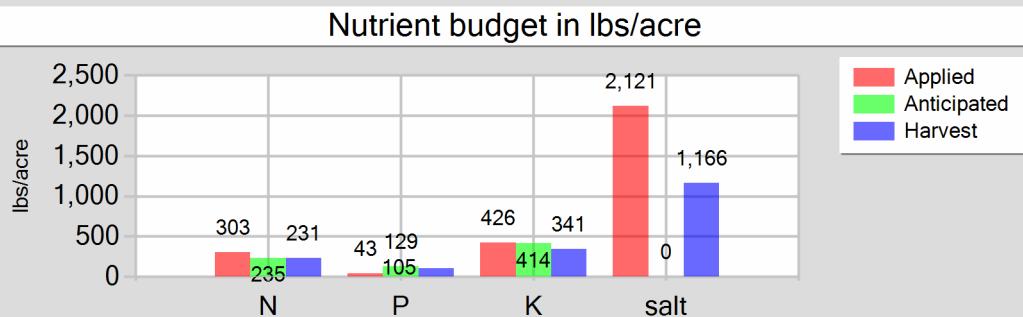
Reporting period 01/01/2023 to 12/31/2023.

Field 6 - 06/19/2023: Corn, silage

Field name: Field 6

Crop: Corn, silage

Plant date: 06/19/2023



	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	296.12	42.79	425.90	2,007.46
Fresh water	0.00	0.00	0.00	113.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	303.12	42.79	425.90	2,120.64
Anticipated crop nutrient removal	235.20	128.80	414.40	0.00
Actual crop nutrient removal	231.27	104.62	341.40	1,165.83
Nutrient balance	71.85	-61.83	84.50	954.82
Applied to removed ratio	1.31	0.41	1.25	1.82

Fresh water applied
30,870,000.00 gallons
1,136.84 acre-inches
36.67 inches/acre

Process wastewater applied
1,071,000.00 gallons
39.44 acre-inches
1.27 inches/acre

Total harvests for the crop
1 harvests

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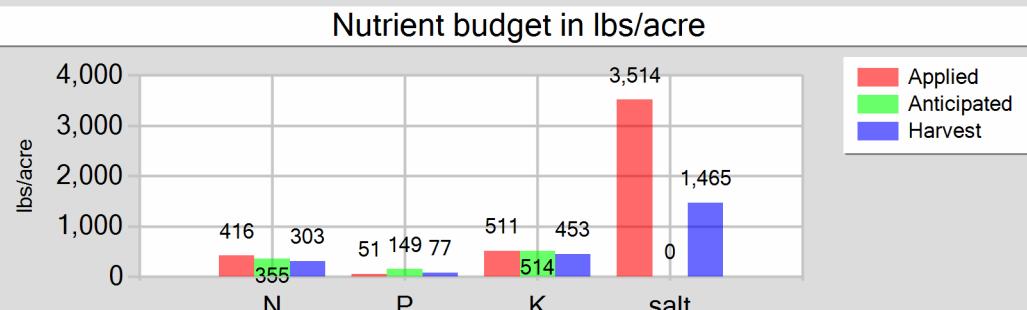
Reporting period 01/01/2023 to 12/31/2023.

Field 7 - 11/13/2022: Wheat, silage, boot stage

Field name: Field 7

Crop: Wheat, silage, boot stage

Plant date: 11/13/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	351.85	50.67	510.78	2,382.24
Fresh water	57.04	0.00	0.00	1,131.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	415.90	50.67	510.78	3,513.63
Anticipated crop nutrient removal	355.20	148.80	513.60	0.00
Actual crop nutrient removal	303.29	76.95	452.67	1,465.01
Nutrient balance	112.61	-26.28	58.11	2,048.62
Applied to removed ratio	1.37	0.66	1.13	2.40

Fresh water applied

14,625,000.00 gallons
538.59 acre-inches
11.97 inches/acre

Process wastewater applied

1,932,000.00 gallons
71.15 acre-inches
1.58 inches/acre

Total harvests for the crop

1 harvests

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

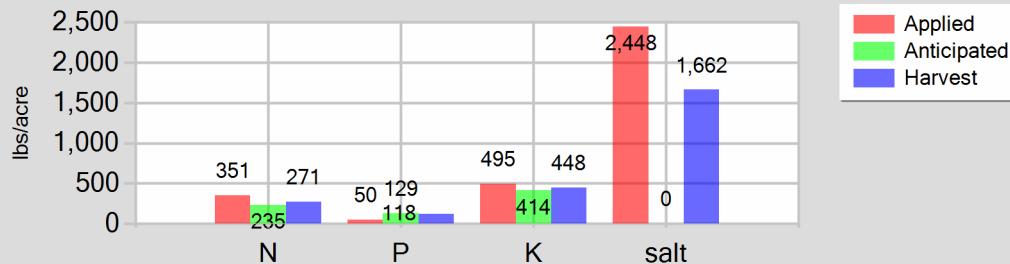
Field 7 - 06/19/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/19/2023

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	343.90	49.69	494.74	2,331.69
Fresh water	0.00	0.00	0.00	115.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	350.90	49.69	494.74	2,447.51
Anticipated crop nutrient removal	235.20	128.80	414.40	0.00
Actual crop nutrient removal	270.93	117.80	447.62	1,662.33
Nutrient balance	79.97	-68.11	47.11	785.18
Applied to removed ratio	1.30	0.42	1.11	1.47

Fresh water applied

45,855,000.00 gallons
1,688.68 acre-inches
37.53 inches/acre

Process wastewater applied

1,806,000.00 gallons
66.51 acre-inches
1.48 inches/acre

Total harvests for the crop

1 harvests

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

NUTRIENT ANALYSES**A. MANURE ANALYSES**

22J1551

Sample and source description: 22J1551

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

Moisture: 22.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,400.00	600.00	40,700.00	14,500.00	4,700.00	5,700.00	5,400.00	1.70		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23F0883

Sample and source description: 23F0883

Sample date: 06/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.4 %

	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	7,200.00	2,300.00	17,500.00							0.00
DL	0.01	0.01	0.01							10.00

23I1771

Sample and source description: 23I1771

Sample date: 09/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 84.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	2,700.00	500.00	1,400.00	1,600.00	700.00	300.00	500.00	0.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

B. PROCESS WASTEWATER ANALYSES

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

22J1514

Sample and source description: 22J1514

Sample date: 10/24/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	906.00	731.00	0.00	6.70	137.00	1,470.00	361.00	204.00	412.00	5,950.00	0.00	14.70	580.00		7,450
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

23A0715

Sample and source description: 23A0715

Sample date: 01/26/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	989.00	707.00	0.00	1.30	123.00	1,280.00									4,630
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23F0872

Sample and source description: 23F0872

Sample date: 06/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1,100.00	584.00	0.00	1.00	168.00	1,490.00	390.00	223.00	394.00	6,020.00	0.00	5.10	637.00		7,200
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

23H0360

Sample and source description: 23H0360

Sample date: 08/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	810.00	438.00	0.00	1.10	91.20	1,440.00	261.00	164.00	343.00	5,420.00	0.00	29.00	516.00		6,270
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

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

23I1768

Sample and source description: 23I1768

Sample date: 09/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	739.00	547.00	0.00	0.60	86.50	1,180.00									6,150
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23J1332

Sample and source description: 23J1332

Sample date: 10/18/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	650.00	234.00	0.00	0.60	155.00	390.00									1,730
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23K0388

Sample and source description: 23K0388

Sample date: 11/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1,350.00	686.00	0.00	0.00	413.00	1,430.00									6,450
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

C. FRESH WATER ANALYSES

Canal

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

Canal

23H0359

Sample description: 23H0359Sample date: 08/01/2023 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										22.70	
DL	0.01										10.00	

House Well

23L0259

Sample description: 23L0259Sample date: 12/05/2023 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	24.40			113.00	21.00	42.00	290.00	0.00	35.00	58.70	908.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

Well 1

23F0892

Sample description: 23F0892Sample date: 06/07/2023 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	31.50			140.00	28.60	28.00	282.00	0.00	65.00	30.70	1,030.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

Well 3

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

Well 3

23L02959

Sample description: 23L02959Sample date: 12/05/2023 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	1.30			27.80	5.10	8.00	99.70	0.00	8.00	2.10	219.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

Well 4

23K0058

Sample description: 23K0058Sample date: 11/01/2023 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	2.90			30.60	6.30	8.00	91.80	0.00	13.90	4.10	261.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 1 - 11/12/2022: Wheat, silage, boot stage

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

Field 1 - 11/12/2022: Wheat, silage, boot stage

23E1977

Sample and source description: 23E1977

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,000.00	3,100.00	12,700.00		13.30
DL	0.01	0.01	0.01		0.01

Field 1 - 06/17/2023: Corn, silage

23J0379

Sample and source description: 23J0379

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	2,200.00	6,300.00		7.40
DL	0.01	0.01	0.01		0.01

Field 2 - 11/12/2022: Wheat, silage, boot stage

23E1977

Sample and source description: 23E1977

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 54.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,600.00	4,600.00	20,200.00		11.30
DL	0.01	0.01	0.01		0.01

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

Field 2 - 06/17/2023: Corn, silage

23J0379

Sample and source description: 23J0379

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	2,500.00	7,600.00		6.70
DL	0.01	0.01	0.01		0.01

Field 6 - 11/12/2022: Wheat, silage, boot stage

23E1977

Sample and source description: 23E1977

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	2,500.00	10,400.00		10.50
DL	0.01	0.01	0.01		0.01

Field 6 - 06/19/2023: Corn, silage

23J0379

Sample and source description: 23J0379

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	1,900.00	6,200.00		6.70
DL	0.01	0.01	0.01		0.01

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

Field 7 - 11/13/2022: Wheat, silage, boot stage

23E1977

Sample and source description: 23E1977

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,700.00	1,700.00	10,000.00		9.30
DL	0.01	0.01	0.01		0.01

Field 7 - 06/19/2023: Corn, silage

23J0379

Sample and source description: 23J0379

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	2,000.00	7,600.00		8.40
DL	0.01	0.01	0.01		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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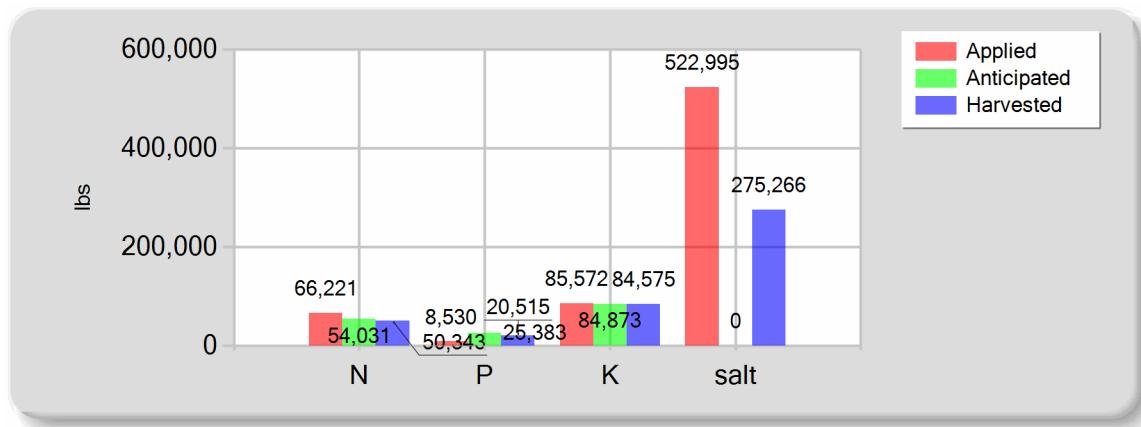
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	59,266.75	8,529.81	85,572.13	400,093.10
Fresh water	5,666.11	0.00	0.00	122,901.78
Atmospheric deposition	1,288.00	0.00	0.00	0.00
Total nutrients applied	66,220.86	8,529.81	85,572.13	522,994.88
Anticipated crop nutrient removal	54,031.20	25,382.80	84,872.80	0.00
Actual crop nutrient removal	50,342.74	20,514.60	84,575.04	275,266.48
Nutrient balance	15,878.12	-11,984.79	997.09	247,728.40
Applied to removed ratio	1.32	0.42	1.01	1.90

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

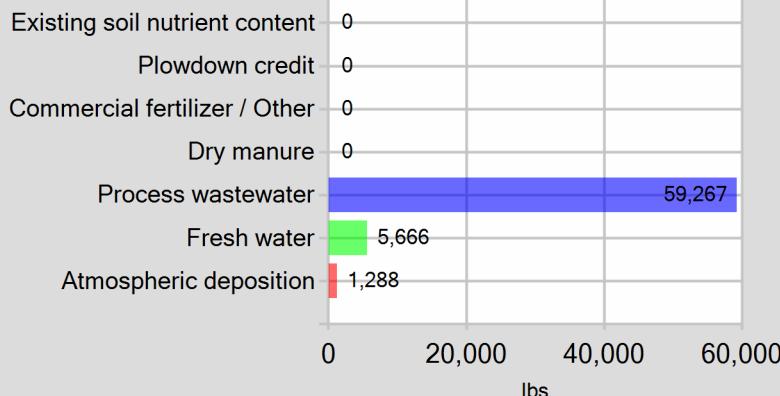


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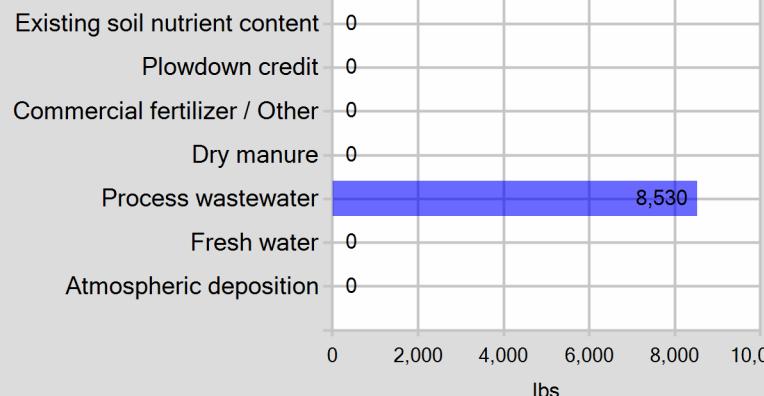
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

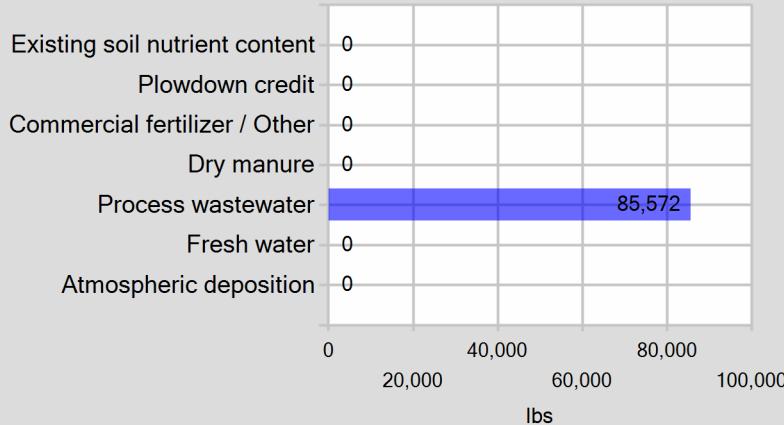
Pounds of nitrogen applied



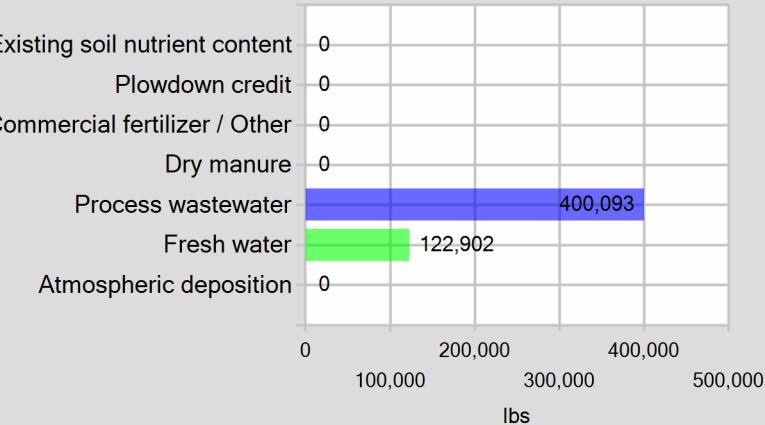
Pounds of phosphorus applied



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? Yes _____

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

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

B. EXPORT AGREEMENT STATEMENT

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

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ADDITIONAL NOTES

A. NOTES

Irrigation Well #2 is down.

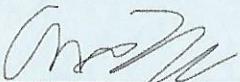
Annual Report - General Order No. R5-2007-0035

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.



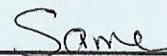
SIGNATURE OF OWNER OF FACILITY

Evangelo Land Co.

PRINT OR TYPE NAME

6-30-2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

Anthony Evangelo

PRINT OR TYPE NAME

6-30-24

DATE

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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.

Report of Dairy Well Water Analysis

Bar E Dairy
6970 Corona Avenue
Kingsburg CA 93631
00-0020202 08

Lab No.: 23F0892
Sampled By: Marty Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 06/08/23
Reported Date: 06/20/23
Project:
Crop ID:

E-mail: martyverhoeven@gmail.com
Copy To:

	Date Sampled	Time Sampled	EC μmhos/cm	EC mmhos/cm	NO ₃ -N mg/L	Field NH ₄ -N mg/L	Total NH ₄ -N mg/L	TDS mg/L	CO ₃ as CaCO ₃ mg/L		HCO ₃ as CaCO ₃ mg/L		Cl mg/L	SO ₄ mg/L	Ca mg/L	Mg mg/L	Na mg/L	pH at 25°C
1 Well 1	6/7/23	6:00	1030	1.03	31.5	*		603	ND	282	30.7	65	140	28.6	28	7.5		

* = Field NH₄-N not Taken.

ND = None Detected

Approved By: Scott M Friedland

Laboratory Director\Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



06/08/23 08:30

23F0892

MM
102021 VO

Purchase Order No

Bill To:

Acct #

Cons #

Results Need By

Name: Bar E Dairy

Address:

City: State: CA Zip:

Telephone: Fax:

Cell/Email:

COPY TO:

REQUESTED BY: Marty Verhoeven

PROJECT:

CROP:

 Copy of Chain QA/QC Documents

Sampled By:

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavalleelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. Samples: _____ | No of Bottles: _____ |

Water Type: Drinking Water Wastewater
 Ag Water Groundwater Monitoring Well

Other: _____

Analysis and Bottles Required: (Please indicate Analysis) DWW1: EC, NO₃-N, pH NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DCW1: EC, NO₃-N, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW1: EC, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW2: DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

 Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
1	Well 1	6/1/23	6:00	0.9	
2					
3					
4					
5					
6					
7					
8					
9					
10					

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second	MM	OLI	6/8/23 8:30	
Third				
Fourth				

I guarantee that as the client, or on behalf of 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 liquidated 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 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

Sampling hrs _____

\$ _____ In

Miles _____

\$ _____ Out

Consulting _____

Signature

Sample received in cooler with ice (coolant)

[] Yes [] No

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 6/30/2023
Location: Laboratory

Report of Dairy Canal Water Analysis

Bar E Dairy
6970 Corona Avenue
Kingsburg CA 93631
00-0020202 08

Lab No.: 23H0359
Sampled By: Marty Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 08/02/23
Reported Date: 08/09/23
Project:
Crop ID:

E-mail: martyverhoeven@gmail.com

Copy To:

	Date Sampled	Time Sampled	EC μmhos/cm	EC mmhos/cm	NO ₃ -N mg/L	TDS mg/L
1	Canal (Canal)	8/1/23	15:10	22.7	0.02	ND

ND = None Detected

Approved By: Scott M. Friedland
Laboratory Director\Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02



08/02/23 08:15

23H0359

WATER WORK REQUESTBill To: 20202 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client **Bar E Dairy**
Address **6970 Corona Ave**
City, State, Zip **Kingsburg, CA 93631**
Email: _____Copy to: **martyverhoeven@gmail.com**Requested by/Cell: **Marty Verhoeven**

Facility: _____

Date sampled **8-1-23**Sampled by **mhv** QA/QC Document Copy of Chain RWQCB**DESCRIPTION OF SAMPLES**

1. **Canal** Sampled From: **Canal**
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: _____

DELLAVALLE LABORATORY, INC.1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174No. of Samples _____ No. Bottles _____
Water Type: Ag Water Drinking
 Supply Water Ground Water Wastewater
 Other Mon. Well**Analysis and Bottles Required: (Please Indicate Analysis)**

- 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
8-1-23	310	22.4	H/F 1.4
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	mhv	DLI	8-1-23 3:10	8-1-23 3:46pm
Second	mhv	DLI	8-1-23 3:46pm	
Third				
Fourth	mhv	DLI	8-1-23 3:46pm	

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 attorney 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 late damage fee of 2% per month (approximately 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 either will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorney fees of Dellavalle Laboratory.

Invoicing Information:**Price List 2022**

			Shipping
Sampling Hrs	Miles	Consulting	\$ <input type="text"/> In <input type="text"/> Out
Amt Paid	Rec By	Check No.	Date

Signature _____

Sample received in cooler with ice?

[] Yes [] No

etcpdate 2020

Report of Dairy Well Water Analysis

Bar E Dairy
6970 Corona Avenue
Kingsburg CA 93631
00-0020202 08

Lab No.: 23K0058
Sampled By: Marty Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 11/02/23
Reported Date: 11/14/23
Project:
Crop ID:

E-mail: martyverhoeven@gmail.com
Copy To:

	Date Sampled	Time Sampled	EC $\mu\text{mhos/cm}$	EC mmhos/cm	NO ₃ -N mg/L	NH ₄ -N mg/L	Field NH ₄ -N mg/L	Total NH ₄ -N mg/L	TDS mg/L	CO ₃ as CaCO ₃ mg/L		HCO ₃ as CaCO ₃ mg/L		Cl mg/L	SO ₄ mg/L	Ca mg/L	Mg mg/L	Na mg/L	pH at 25°C
										Total NH ₄ -N mg/L	TDS mg/L	CaCO ₃ mg/L	HCO ₃ as CaCO ₃ mg/L						
1	Well 4 New (Standpipe)	11/01/23	15:30	261	0.26	2.9	ND		150	ND	91.8	4.1	13.9	30.6	6.3	8	7.8		

* = Field NH₄-N not Taken.

ND = None Detected

Approved By:

Scott M Fricke

Laboratory Director\Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02

11/02/23 07:42

23K0058

WATER WORK REQUEST

Acct No. 20202 Cons. 08

Purchase Order No.	Results Needed By
Client _____	Bar E Dairy
Address _____	6970 Corona Ave
City, State, Zip _____	Kingsburg, CA 93631
Email: _____	

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven

Facility: _____

Date sampled 11-1-23

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

- | | | |
|-----|------------|---------------------------------|
| 1. | Well 4 New | Sampled From: <u>Steel pipe</u> |
| 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	<i>apt 800</i>	CCC	11-1-23 3:30	11-1-23 2:47pm
Second	<i>John Leffler</i>	DLI	11/1/23 2:47pm	
Third	<i>MM</i>	DLI	11/2 7:42	
Fourth				

I guarantee that if 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 a claim against me for this breach, reasonable attorney's fees. It is understood that payment is expected to be made with cash unless terms have been previously arranged. If terms are set, 30 days' overdue accounts will be charged a liberal interest fee of 2% per month (equally \$2.50 + \$0.50 per month) if payment is not made when due and a legitimate dispute exists concerning the product or services of Bellville 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, 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. It is 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 attorney fees of Bellville Laboratory.

Invoicing Information:

Price List 2022 2023 M61 11/01/23

Sampling Hrs _____ Miles _____ Consulting

Amt Paid	Rec By	Check No.
----------	--------	-----------

Shipping

—
—

Requisitioned (Date Filled)

-1-23 2.4 PM

Digitized by srujanika@gmail.com

—

Signature

Sample received in cooler with ice^a

Yes No

ctrlupdate 201201

Report of Dairy Well Water Analysis

Bar E Dairy
6970 Corona Avenue
Kingsburg CA 93631
00-0020202 08

Lab No.: 23L0259
Sampled By: Pamela Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 12/06/23
Reported Date: 12/18/23
Project:
Crop ID:

E-mail: martyverhoeven@gmail.com

Copy To:

	Date Sampled	Time Sampled	EC μmhos/cm	EC mmhos/cm	NO ₃ -N mg/L	NH ₄ -N mg/L	Field NH ₄ -N mg/L	Total NH ₄ -N mg/L	TDS mg/L	CO ₃ as CaCO ₃ mg/L	HCO ₃ as CaCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	Ca mg/L	Mg mg/L	Na mg/L	pH at 25°C
																	unit
1	Well 3 (Valve @ Well)	12/05/23	12:45	219	0.22	1.3	*		156	ND	99.7	2.1	8.0	27.8	5.1	8	7.8
2	House Well (Valve @ Well)	12/05/23	12:50	908	0.91	24.4	*		520	ND	290	58.7	35.0	113	21.0	42	7.4

* = Field NH₄-N not Taken.

ND = None Detected

Approved By:

Scott M Friedland

Laboratory Director/Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



D

12/06/23 07:00

23L0259

SAMPLE REQUEST

Bill To: Acct No. Cons.

Purchase Order No. _____ Results Needed By _____

Client **Bar E Dairy**
 Address **6970 Corona Ave**
 City, State, Zip **Kingsburg, CA 93631**
 Email: _____

Copy to: Requested by/Cell:

Facility: _____

Date sampled **12-5-23**Sampled by **Pamela Verhoeven** QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

1.	Well 3	Sampled From: Valve/Well
2.	House Well	Sampled From: Valve/Well
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	DV	VDEC	12-5-23 12:45	12/5/23 3:25
Second	CH	OCI	12/5/23 3:25	12/5/23 3:26
Third				
Fourth	AK	OCI	12/6/23 07:00	

I acknowledge 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 attorney fees will be awarded. 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 simple interest rate 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 service 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, the dispute will be submitted to binding arbitration through CAL under its Rules and Procedures. The parties will equally bear the costs of mediation and 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:

Price List 2022

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

Shipping

Signature _____

Sample received in cooler with ice?

[] Yes [] No

etnupdate 2020

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
 www.dellavallielab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 2	No. of Bottles 2
Water Type:	<input type="checkbox"/> Drinking
<input checked="" type="checkbox"/> Ag Water	<input checked="" type="checkbox"/> Ground Water
<input type="checkbox"/> Supply Water	<input type="checkbox"/> Other
	<input type="checkbox"/> Wastewater
	<input type="checkbox"/> Mon. Well

Analysis and Bottles Required: (Please Indicate Analysis)

- 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	Received Temp °C
12-5-23	12:45	NH4-N (mg/L)	4.6 / 1.0
12-5-23	12:50		4.9 / 0.5
		IR Thermometer SN: 200560723	
		Correction Factor: 0°C	
		Calibration Due: 12/22/2023	
		Location: Laboratory	
		IR Thermometer SN: 221511276	
		Correction Factor: 0°C	
		Calibration Due: 12/22/2023	
		Location: Hanford	