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: Dutra & Dutra Dairy

Physical address of dairy:

7480 5th AVE	Hanford	Kings	93230
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 01/01/1940

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X014-X040-X021-XXXX X014-X100-X029-XXXX

B. OPERATORS

Dutra, Manuel

Operator name: Dutra, Manuel Telephone no.: (559) 582-3468 Landline (559) 816-4770 Cellular

7480 5th AVE	Hanford	CA	93230
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Dutra, Manuel

Legal owner name: Dutra, Manuel Telephone no.: (559) 582-3468 Landline (559) 816-4770 Cellular

7480 5th AVE	Hanford	CA	93230
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	40	40	28	0
Number under roof	460	70	0	0	0	0
Maximum number	480	80	50	40	32	0
Average number	470	75	45	40	30	0
Avg live weight (lbs)	1,450	1,500	1,100	90		

Predominant milk cow breed: Holstein

Average milk production: 64 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 13,721.86 *tons per reporting period*

Total nitrogen from manure: 176,588.47 *lbs per reporting period*

After ammonia losses (30% loss applied): 123,611.93 *lbs per reporting period*

Total phosphorus from manure: 29,170.19 *lbs per reporting period*

Total potassium from manure: 88,156.60 *lbs per reporting period*

Total salt from manure: 238,545.75 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 1,410,000 *gallons*

Total nitrogen generated: 8,599.42 *lbs*

Total phosphorus generated: 1,053.62 *lbs*

Total potassium generated: 10,384.52 *lbs*

Total salt generated: 57,547.95 *lbs*

	1,410,000	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	1,410,000	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
Domestic	Ground water
Well 2	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 1	110	102	0	none	0014-0100-0004-0000 0014-0100-0005-0000
Field 19	65	65	1	process wastewater	0014-0100-0029-0000
Field 2	48	48	1	none	0014-0100-0014-0000
Field 3	37	37	0	none	0014-0100-0015-0000
Field 5	39	39	1	both	0014-0100-0025-0000
Field 6	39	39	1	both	0014-0100-0025-0000
Totals for areas that were used for application	143	143	3		
Totals for areas that were not used for application	195	187	1		
Land application area totals	338	330	4		

B. CROPS AND HARVESTS

Field 19

Field name: Field 19

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 65 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	1,648.80 *ton*	As-is		67.8	3,600.00	1,500.00	4,400.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.50	259.70	164.30	318.00	0.00
Total actual harvest content	25.37	182.64	76.10	223.22	914.80

Field 2

Field name: Field 2

Field 2

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 48 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	410.00 *ton*	As-is		8.9	42,000.00	4,400.00	25,800.00		9.36

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	262.00	40.00	302.00	0.00
Total actual harvest content	8.54	717.50	75.17	440.75	1,456.69

Field 5

Field name: Field 5

11/15/2022: Wheat Hay

Crop: Wheat Hay Acres planted: 39 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/28/2023	150.00 *ton*	As-is		6.3	15,500.00	2,300.00	18,300.00		7.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	157.20	24.00	181.20	0.00
Total actual harvest content	3.85	119.23	17.69	140.77	573.01

Field 6

Field name: Field 6

Field 6

11/15/2022: Wheat Hay

Crop: Wheat Hay Acres planted: 39 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/28/2023	164.00 *ton*	As-is		6.7	15,000.00	2,200.00	17,100.00		6.73

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	157.20	24.00	181.20	0.00
Total actual harvest content	4.21	126.15	18.50	143.82	528.09

NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 19 - 06/20/2023: Corn, silage

Field name: Field 19

Crop: Corn, silage Plant date: 06/20/2023

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	14.37	1.73	17.29	93.98	150,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	15.53	10,080,000.00 *gal*
Application event totals		14.37	1.73	17.29	109.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/15/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant	Solid commercial fertilizer	75.00	0.00	0.00	0.00	
Application event totals		75.00	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/15/2023	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	11.18	7,260,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.18	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/12/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Sidedress	Solid commercial fertilizer	75.00	0.00	0.00	0.00	
Application event totals		75.00	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	14.37	1.73	17.29	93.98	150,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.46	7,440,000.00 *gal*
Application event totals		14.37	1.73	17.29	105.44	

Field 19 - 06/20/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Nitrogen	Liquid commercial fertilizer	50.00	0.00	0.00	0.00	
Canal	Surface water	0.00	0.00	0.00	11.55	7,500,000.00 *gal*
Application event totals		50.00	0.00	0.00	11.55	

Field 2 - 01/01/2023: Alfalfa, hay

Field name: Field 2

Crop: Alfalfa, hay Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Well 2	Ground water	0.42	0.00	0.00	264.87	4,800,000.00 *gal*
Application event totals		0.42	0.00	0.00	264.87	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/05/2023	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
Well 2	Ground water	0.44	0.00	0.00	278.11	5,040,000.00 *gal*
Application event totals		0.44	0.00	0.00	278.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.27	5,400,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.27	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/15/2023	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	11.17	5,355,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.17	

Field 2 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/10/2023	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
Canal	Surface water	0.00	0.00	0.00	11.08	5,310,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.08	

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	11.27	5,400,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.27	

Field 5 - 11/15/2022: Wheat Hay

Field name: Field 5

Crop: Wheat Hay Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/02/2022	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	49.20	16.40	79.20	0.00	78.00 *ton*
Application event totals		49.20	16.40	79.20	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/26/2022	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
Lagoon	Process wastewater	20.21	3.16	28.04	138.66	180,000.00 *gal*
Well 2	Ground water	0.51	0.00	0.00	325.99	4,800,000.00 *gal*
Application event totals		20.72	3.16	28.04	464.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	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
Well 2	Ground water	0.48	0.00	0.00	305.62	4,500,000.00 *gal*
Application event totals		0.48	0.00	0.00	305.62	

Field 5 - 11/15/2022: Wheat Hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	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	33.52	4.04	40.35	219.28	210,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.63	3,750,000.00 *gal*
Application event totals		33.52	4.04	40.35	228.91	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	23.94	2.89	28.82	156.63	150,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	12.32	4,800,000.00 *gal*
Application event totals		23.94	2.89	28.82	168.95	

Field 6 - 11/15/2022: Wheat Hay

Field name: Field 6

Crop: Wheat Hay Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/02/2022	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	48.95	16.32	78.79	0.00	77.60 *ton*
Application event totals		48.95	16.32	78.79	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/26/2022	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
Lagoon	Process wastewater	37.48	4.21	42.24	271.85	210,000.00 *gal*
Well 2	Ground water	0.51	0.00	0.00	325.99	4,800,000.00 *gal*
Application event totals		37.99	4.21	42.24	597.85	

Field 6 - 11/15/2022: Wheat Hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	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
Well 2	Ground water	0.48	0.00	0.00	305.62	4,500,000.00 *gal*
Application event totals		0.48	0.00	0.00	305.62	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	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	33.52	4.04	40.35	219.28	210,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.63	3,750,000.00 *gal*
Application event totals		33.52	4.04	40.35	228.91	

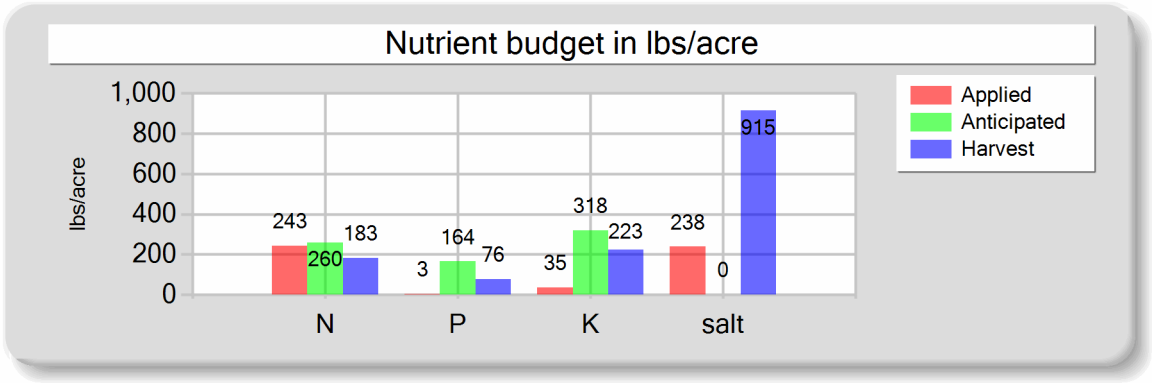
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	23.94	2.89	28.82	156.63	150,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	12.32	4,800,000.00 *gal*
Application event totals		23.94	2.89	28.82	168.95	

B. NUTRIENT BUDGET

Field 19 - 06/20/2023: Corn, silage

Field name: Field 19 Crop: Corn, silage Plant date: 06/20/2023



	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	200.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	28.73	3.47	34.59	187.96
Fresh water	0.00	0.00	0.00	49.73
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	242.73	3.47	34.59	237.69
Anticipated crop nutrient removal	259.70	164.30	318.00	0.00
Actual crop nutrient removal	182.64	76.10	223.22	914.80
Nutrient balance	60.10	-72.63	-188.64	-677.12
Applied to removed ratio	1.33	0.05	0.15	0.26

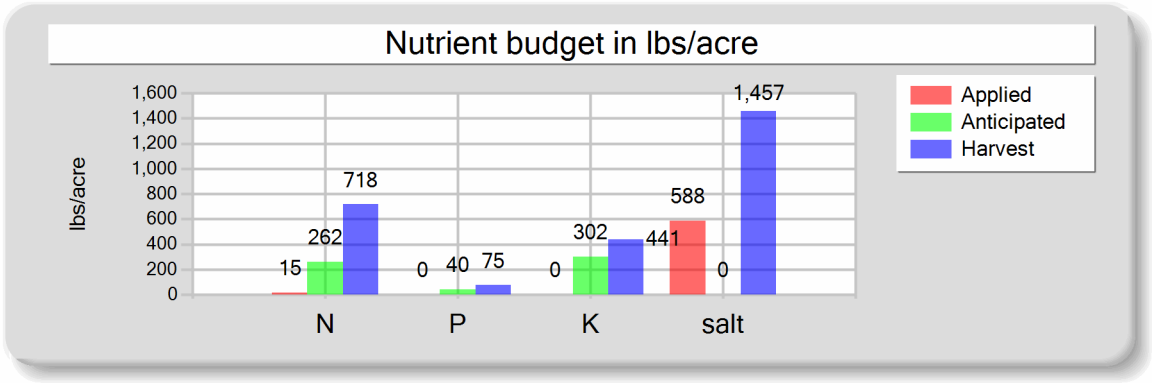
Fresh water applied	
32,280,000.00	*gallons*
1,188.76	*acre-inches*
18.29	*inches/acre*

Process wastewater applied	
300,000.00	*gallons*
11.05	*acre-inches*
0.17	*inches/acre*

Total harvests for the crop	
1	*harvests*

Field 2 - 01/01/2023: Alfalfa, hay

Field name: Field 2 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	0.00	0.00	0.00	0.00
Fresh water	0.86	0.00	0.00	587.77
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.86	0.00	0.00	587.77
Anticipated crop nutrient removal	262.00	40.00	302.00	0.00
Actual crop nutrient removal	717.50	75.17	440.75	1,456.69
Nutrient balance	-702.64	-75.17	-440.75	-868.92
Applied to removed ratio	0.02	0.00	0.00	0.40

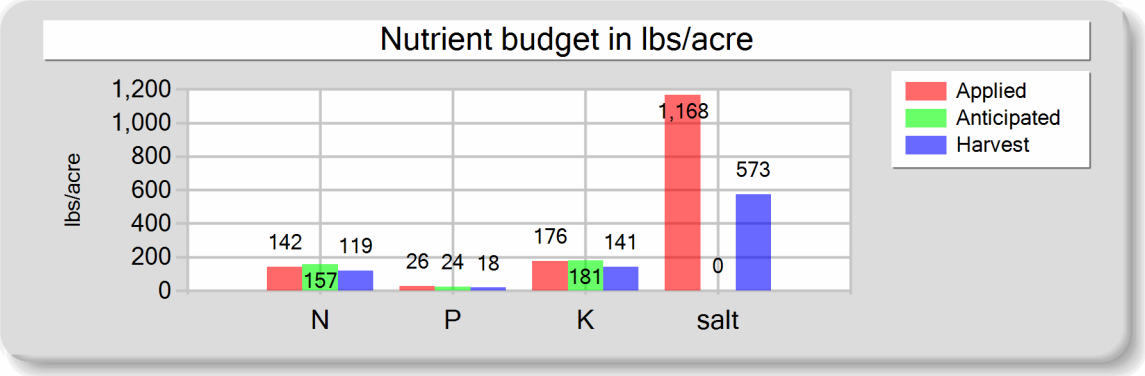
Fresh water applied	
31,305,000.00	*gallons*
1,152.86	*acre-inches*
24.02	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

Field 5 - 11/15/2022: Wheat Hay

Field name: Field 5 Crop: Wheat Hay Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	49.20	16.40	79.20	0.00
Process wastewater	77.67	10.09	97.21	514.57
Fresh water	0.99	0.00	0.00	653.57
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	141.87	26.49	176.41	1,168.13
Anticipated crop nutrient removal	157.20	24.00	181.20	0.00
Actual crop nutrient removal	119.23	17.69	140.77	573.01
Nutrient balance	22.63	8.80	35.64	595.12
Applied to removed ratio	1.19	1.50	1.25	2.04

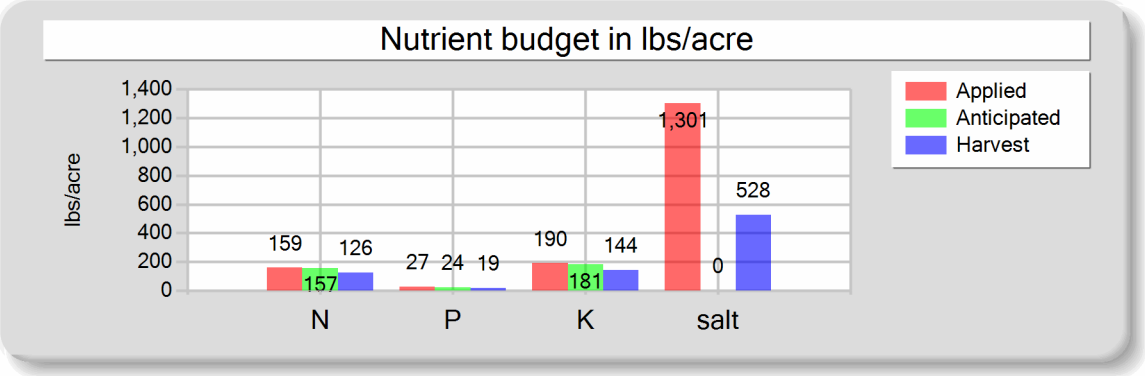
Fresh water applied	
17,850,000.00	*gallons*
657.35	*acre-inches*
16.86	*inches/acre*

Process wastewater applied	
540,000.00	*gallons*
19.89	*acre-inches*
0.51	*inches/acre*

Total harvests for the crop	
1	*harvests*

Field 6 - 11/15/2022: Wheat Hay

Field name: Field 6 Crop: Wheat Hay Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	48.95	16.32	78.79	0.00
Process wastewater	94.94	11.15	111.41	647.76
Fresh water	0.99	0.00	0.00	653.57
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	158.88	27.46	190.21	1,301.33
Anticipated crop nutrient removal	157.20	24.00	181.20	0.00
Actual crop nutrient removal	126.15	18.50	143.82	528.09
Nutrient balance	32.73	8.96	46.39	773.24
Applied to removed ratio	1.26	1.48	1.32	2.46

Fresh water applied	
17,850,000.00	*gallons*
657.35	*acre-inches*
16.86	*inches/acre*

Process wastewater applied	
570,000.00	*gallons*
20.99	*acre-inches*
0.54	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

22J1527

Sample and source description: 22J1527

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

Moisture: 44.2 %

	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	12,300.00	4,100.00	19,800.00	13,900.00	5,000.00	5,300.00	3,600.00	7,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23F1449

Sample and source description: 23F1449

Sample date: 06/14/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 31.5 %

	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	17,400.00	4,600.00	14,600.00							0.00
DL	0.01	0.01	0.01							10.00

23I1781

Sample and source description: 23I1781

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

Moisture: 45.5 %

	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	14,100.00	4,500.00	18,700.00	13,200.00	4,600.00	4,600.00	3,500.00	6,000.00		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

22J1513

Sample and source description: 22J1513

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	523.00	394.00	0.00	1.60	82.00	728.00									3,600
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23A0713

Sample and source description: 23A0713

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	680.00	492.00	0.00	1.40	106.00	776.00									4,260
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23F1438

Sample and source description: 23F1438

Sample date: 06/14/2023 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	745.00	499.00	0.00	1.00	90.00	898.00									4,880
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23I1775

Sample and source description: 23I1775

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	478.00	363.00	0.00	1.00	77.70	566.00	186.00	119.00	263.00	2,810.00	0.00	3.70	625.00		4,220
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

23L0256

Sample and source description: 23L0256

Sample date: 12/05/2023 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	834.00	463.00	0.00	0.00	93.80	940.00	320.00	141.00	329.00	4,190.00	0.00	0.00	507.00		6,050
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

C. FRESH WATER ANALYSES

Canal

23I0730

Sample description: 23I0730

Sample date: 09/11/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										20.00	
DL	0.01										10.00	

Domestic

23L0254

Sample description: 23L0254

Sample 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	3.80										586.00	
DL	0.01										10.00	

Well 2

Well 2

22F2063

Sample description: 22F2063

Sample date: 06/28/2022 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	0.50										529.00	
DL	0.01										10.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 19 - 06/20/2023: Corn, silage

23K0390

Sample and source description: 23K0390

Sample date: 11/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,600.00	1,500.00	4,400.00		5.60
DL	0.01	0.01	0.01		0.01

Field 2 - 01/01/2023: Alfalfa, hay

Field 2 - 01/01/2023: Alfalfa, hay

33781 025

Sample and source description: 33781 025

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 8.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	42,000.00	4,400.00	25,800.00		9.36
DL	0.01	0.01	0.01		0.01

Field 5 - 11/15/2022: Wheat Hay

32470 220

Sample and source description: 32470 220

Sample date: 07/28/2022 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 6.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,500.00	2,300.00	18,300.00		7.95
DL	0.01	0.01	0.01		0.01

Field 6 - 11/15/2022: Wheat Hay

32470 221

Sample and source description: 32470 221

Sample date: 07/28/2022 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 6.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,000.00	2,200.00	17,100.00		6.73
DL	0.01	0.01	0.01		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

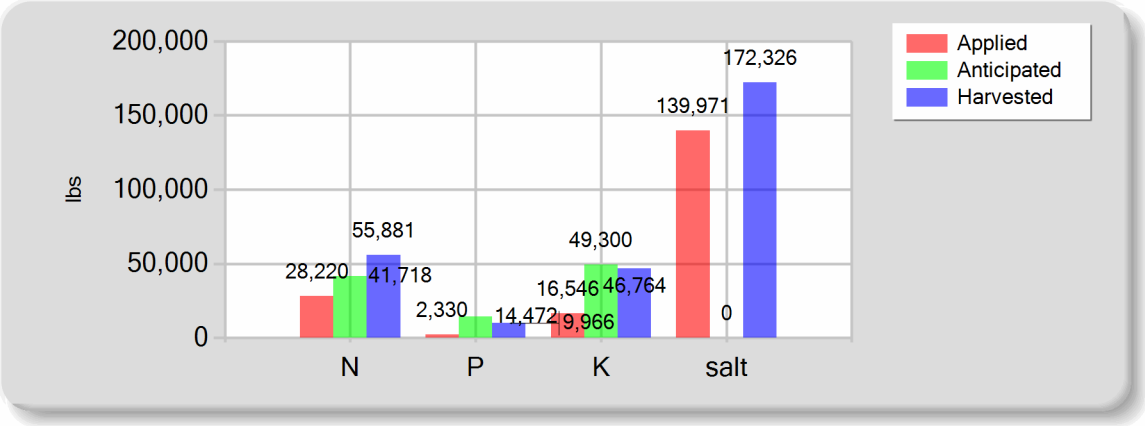
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

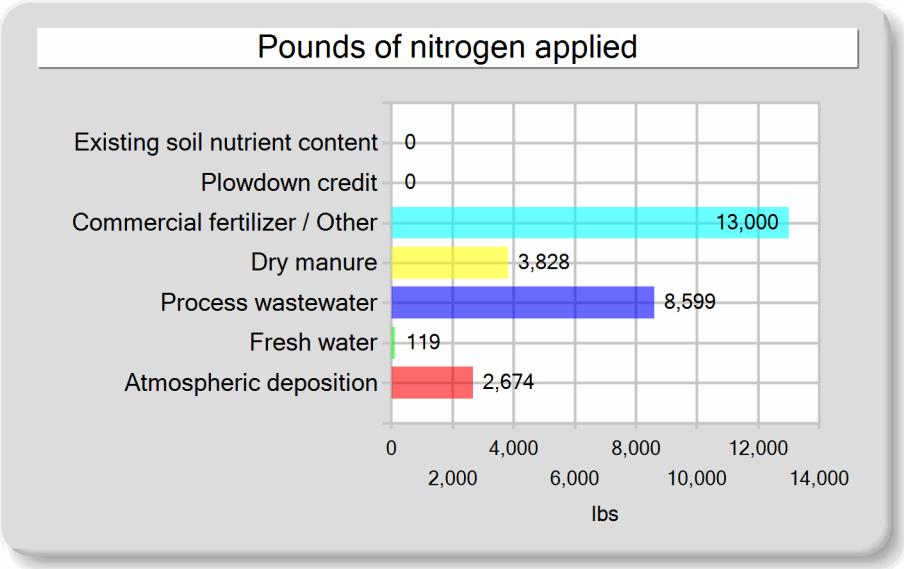
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

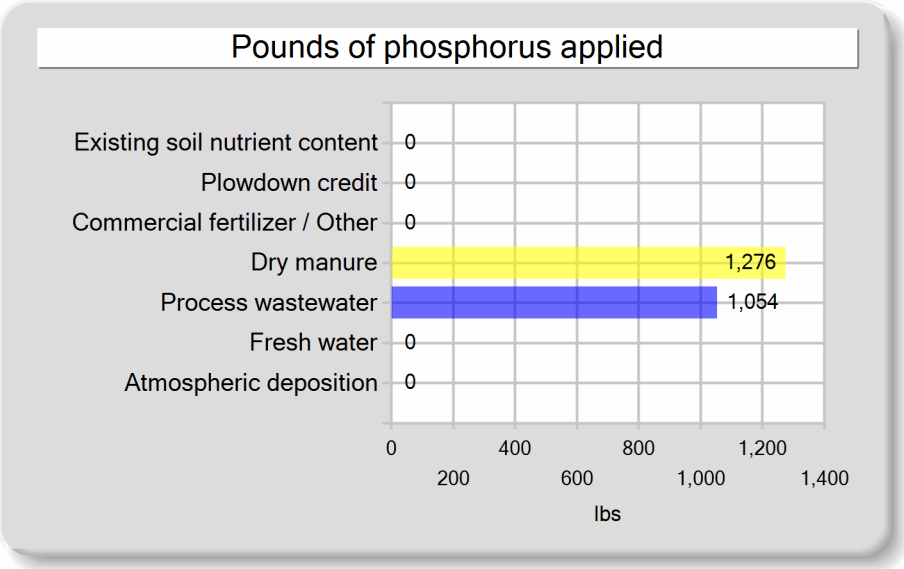
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	13,000.00	0.00	0.00	0.00
Dry manure	3,827.76	1,275.92	6,161.76	0.00
Process wastewater	8,599.42	1,053.62	10,384.52	57,547.95
Fresh water	118.67	0.00	0.00	82,423.53
Atmospheric deposition	2,674.00	0.00	0.00	0.00
Total nutrients applied	28,219.85	2,329.54	16,546.28	139,971.49
Anticipated crop nutrient removal	41,718.10	14,471.50	49,299.60	0.00
Actual crop nutrient removal	55,881.36	9,966.00	46,764.24	172,326.26
Nutrient balance	-27,661.51	-7,636.46	-30,217.96	-32,354.77
Applied to removed ratio	0.50	0.23	0.35	0.81

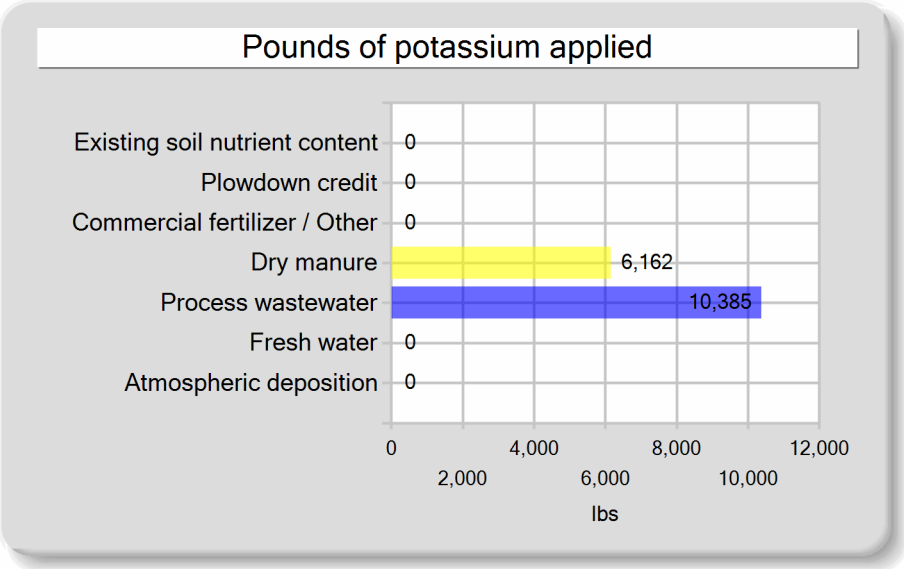
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

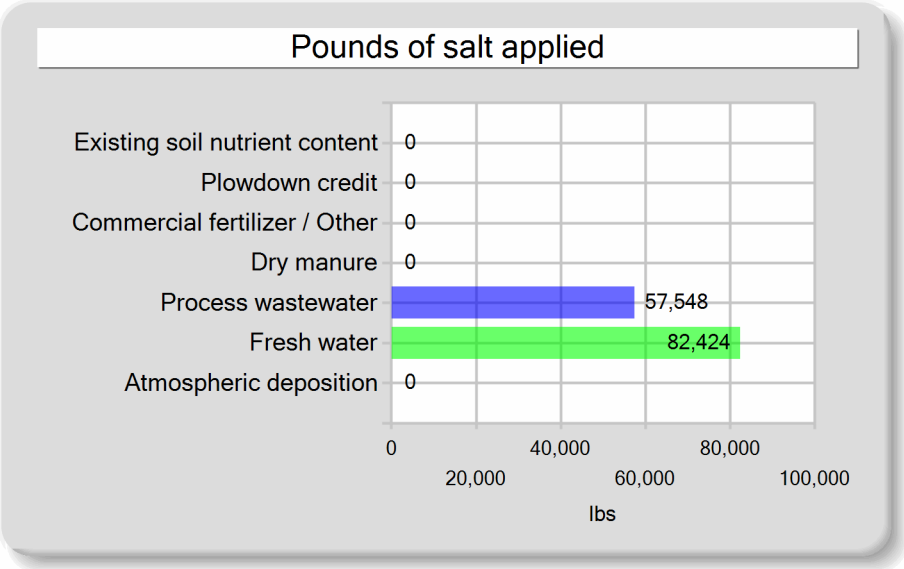


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

B. EXPORT AGREEMENT STATEMENT

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

ADDITIONAL NOTES

A. NOTES

Irrigation Well #1 still down.

Wells were turned off for the season.

Canal water became available.

Well 2 was turned off before sampled. Using 2022 lab.

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.

Same

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Manuel Dutra

PRINT OR TYPE NAME

SAME AS OWNER

PRINT OR TYPE NAME

6-29-24

DATE

6-29-24

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.

DELLAVALLE™
LABORATORY INC

Report of Dairy Canal Water Analysis

Dutra & Dutra Dairy
7680 5th Avenue
Hanford CA 93230
00-0016607 08

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

Lab No.: 23I0730
Sampled By: Marty Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 09/11/23
Reported Date: 09/18/23
Project:
Crop ID:

		Date Sampled	Time Sampled	EC µmhos/cm	EC mmhos/cm	NO_3-N mg/L	TDS mg/L
1	Canal (Standpipe)	9/11/23	4:17	20	0.02	ND	20

ND = None Detected

Approved By: Scott McFriedland
Laboratory Director\Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02

09/11/23 14:30 2310730 9

WATER WORK REQUEST

Acct No. / Cons.

Bill To: 16607 / 08

Purchase Order No. ____ Results Needed By ____

Client: **Dutra & Dutra Dairy**
Address: 7680 5th Avenue
City, State, Zip: Hanford, CA 93230
Email: ____

Copy to: martyverhoeven@gmail.com
Requested by/Cell: Marty Verhoeven/ 559-410-2420
Facility: ____
Date sampled: 9-11-23
Sampled by: MVH

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

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

No. of Samples: 1 No. Bottles: 1

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☑ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other ____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☐ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test)**
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☑ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other ____

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C H/F
1. Cow	Sampled From: Stanchion	9-11-23	4:17 pm		4.9 / -1.4
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:				

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

IR Thermometer SN: 221511274
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DCC	9-11-23 4:17	9-11-23 8:10AM
Second	[signature]	DLI	09/11/23 8:10AM	9/11/23 11:44
Third	[signature]	DLI	9/11/23 11:44	9/11/23 2:08
Fourth	[signature]	DLI	9/11 (6:30)	

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 stated drainage 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 fees 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:
Price List 2022-23
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____

Shipping
$ ____ In
$ ____ Out
Date ____

Signature ____
Sample received in cooler with ice?
[ ] Yes [ ] No

ctlupdate 2020

DELLAVALLE LABORATORY INC

Report of Dairy Well Water Analysis

Dutra & Dutra Dairy
7680 5th Avenue
Hanford CA 93230
00-0016607 08

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

Lab No.: 23L0254
Sampled By: Pamela Verhoeven
Requested By: Marty Verhoeven
Submitted Date: 12/06/23
Reported Date: 12/19/23
Project:
Crop ID:

		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 unit
1	Domestic (Valve @ Well)	12/05/23	13:40	586	0.59	3.8	*		320	ND	127	59.5	37.4	21.6	1.4	98	7.6

* = Field NH_4-N not Taken.
ND = None Detected

Approved By: Scott McFarland

Laboratory Director\Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02

12/06/23 07:00 23L0254

DELLAVALLE LABORATORY, INC.

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

WORK REQUEST

Bill To: Acct No. 16607 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: **Dutra & Dutra Dairy**
Address: 7680 5th Avenue
City, State, Zip: Hanford, CA 93230
Email: _____

Copy to: martyverhoeven@gmail.com
Requested by/Cell: Marty Verhoeven/ 559-410-2420
Facility: _____
Date sampled: 12-5-23
Sampled by: Pamela Verhoeven

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

No. of Samples: 1 No. Bottles: 1

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

Analysis and Bottles Required: *(Please Indicate Analysis)*

☐ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☑ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

H/F

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. Domestic	Sampled From: Valve@well	12-5-23	1:40		11.5/10.8
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:				

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	DV	VDFC	12-5-23 1:40	12/5/23 3:32
Second	CH	DLI	12/5/23 3:32	12/5/23 3:32
Third				
Fourth		DLI	12/6 07:00	

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 direct charge 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. (call). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through call 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:
Price List 2022
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___

Shipping
$ _____ In
$ _____ Out
Date

Signature _____
Sample received in cooler with ice?
[ ] Yes [ ] No

cfrupdate 2020

DELLAVALLE™
LABORATORY INC

Report of Dairy Well Water Analysis

Dutra & Dutra Dairy
7680 5th Avenue
Hanford CA 93230
00-0016607 08

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

Lab No.: 22F2063
Sampled By: M. Verhoeven
Requested By:
Submitted Date: 06/28/22
Reported Date: 07/05/22
Project:
Crop ID:

		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 unit
1	Well #2 (Standpipe)	6/27/22	14:25	529	0.53	0.5	ND		290	17	73.6	89	29.2	8.2	0.2	102	8.9

* = Field NH_4-N not Taken.
ND = None Detected

Approved By: Scott McFriedland

Laboratory Director\Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02

06/28/22 07:00 22F2063

WATER WORK REQUEST

Bill To: Acct No. 16607 Cons. 08

Purchase Order No. _____ Results Needed By _____

Client: Dutra & Dutra Dairy
Address: 7680 5th Avenue
City, State, Zip: Hanford, CA 93230
Email: 0

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven/ 559-410-2420

Facility: 0

Date sampled: 6-27-22

Sampled by: [signature]

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

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

No. of Samples: 1 No. Bottles: 1

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

Analysis and Bottles Required: *(Please Indicate Analysis)*

☐ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

☒ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. Well #2	Sampled From: Stock Pond	6-27-22	225	D	16.3
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	[signature]	DDC	6-27-22	6-27-22 3:58 PM
Second	[signature]	DLL	6/27/22 3:58 PM	
Third	[signature]	PMS DLL	6-27 6:00	
Fourth				

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Invoicing Information:
Price List 2022
Sampling Hrs ___ Miles ___ Consulting ___

Shipping
$ _____ In
$ _____ Out

Amt Paid ___ Rec By ___ Check No. ___ Date ___

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

ctl update 2020