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: Petrissans Dairy

Physical address of dairy:

Number and Street	City	County	Zip Code
5111 Bear Mountain BLVD	Bakersfield	Kern	93313

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 07/01/1992

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0450-0059-0004 0184-0450-0060-0006 0184-0450-0061-0000 0295-0070-0025-0000

B. OPERATORS

Petrissans, Jean Pierre

Operator name: Petrissans, Jean Pierre

Telephone no.: Landline: ; Cellular: (661) 333-4148

Mailing Address Number and Street	City	State	Zip Code
5111 Bear Mountain BLVD	Bakersfield	CA	93313

This operator is responsible for paying permit fees.

C. OWNERS

Petrissans Family Trust, Jean P and Deanna A

Legal owner name: Petrissans Family Trust, Jean P and Deanna A

Telephone no.: Landline: (661) 832-0654; Cellular:

Mailing Address Number and Street	City	State	Zip Code
5159 Bear Mountain BLVD	Bakersfield	CA	93313

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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	1,000	90	0	0	0	0
Number under roof	0	0	0	0	0	0
Maximum number	1,637	195	730	550	0	0
Average number	1,000	90	0	0	0	0
Avg live weight (lbs)	1,400	1,450	1,000	700		

Predominant milk cow breed: Holstein

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

B. MANURE GENERATED

Total manure excreted by the herd: 27,202.60 *tons per reporting period*

Total nitrogen from manure: 354,874.02 *lbs per reporting period*

After ammonia losses (30% loss applied): 248,411.81 *lbs per reporting period*

Total phosphorus from manure: 59,510.22 *lbs per reporting period*

Total potassium from manure: 192,823.23 *lbs per reporting period*

Total salt from manure: 491,545.50 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 18,335,112 *gallons*

Total nitrogen generated: 53,950.10 *lbs*

Total phosphorus generated: 12,056.91 *lbs*

Total potassium generated: 108,328.61 *lbs*

Total salt generated: 532,462.65 *lbs*

	18,335,112	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	18,335,112	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Barn Well	Ground water
Well #10	Ground water
Well #5	Ground water
Well #7	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.

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	2	2	0	none	0184-0450-0061-0000
10	77	77	1	none	0184-0450-0059-0004
11	76	76	1	none	0184-0450-0059-0004
12	76	76	2	manure	0295-0070-0025-0000
13	76	76	2	manure	0295-0070-0025-0000
2	51	51	1	none	0184-0450-0061-0000
3	45	45	1	none	0184-0450-0061-0000
4	79	79	2	both	0184-0450-0061-0000
5	78	78	2	both	0184-0450-0061-0000
6	78	78	1	none	0184-0450-0060-0006
7	77	77	1	none	0184-0450-0060-0006
8	78	78	1	none	0184-0450-0060-0006
9	78	78	1	none	0184-0450-0060-0006
Totals for areas that were used for application	309	309	8		
Totals for areas that were not used for application	562	562	8		
Land application area totals	871	871	16		

B. CROPS AND HARVESTS

10

Field name: 10

03/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 03/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/19/2023	2,032.57 *ton*	Dry-weight		67.6	14,300.00	3,600.00	21,000.00		8.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	2.20
Total actual harvest content	26.40	244.61	61.58	359.21	1,488.16

11

Field name: 11

01/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 76 Plant date: 01/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	535.00 *ton*	Dry-weight		9.6	35,000.00	3,000.00	33,000.00		10.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.80
Total actual harvest content	7.04	445.46	38.18	420.00	1,289.28

12

Field name: 12

01/01/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 39 Plant date: 01/01/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	273.00 *ton*	Dry-weight		9.6	35,000.00	3,000.00	33,000.00		10.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.80
Total actual harvest content	7.00	442.96	37.97	417.65	1,282.05

12/01/2022: Oats, hay

Crop: Oats, hay Acres planted: 40 Plant date: 12/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	273.00 *ton*	Dry-weight		7.0	12,000.00	4,600.00	21,100.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	0.40
Total actual harvest content	6.83	152.33	58.39	267.85	875.92

13

Field name: 13

12/01/2022: Oats, hay

Crop: Oats, hay Acres planted: 76 Plant date: 12/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	296.00 *ton*	Dry-weight		6.5	10,400.00	4,600.00	17,300.00		7.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	0.40
Total actual harvest content	3.89	75.74	33.50	126.00	531.67

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 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 (%)
10/05/2023	870.00 *ton*	Dry-weight		65.4	13,800.00	8,100.00	15,800.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	160.00	30.00	130.00	2.00
Total actual harvest content	11.45	109.32	64.16	125.16	491.14

2

Field name: 2

03/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 51 Plant date: 03/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	1,336.00 *ton*	Dry-weight		61.9	11,500.00	2,200.00	10,400.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	160.00	30.00	132.00	2.00
Total actual harvest content	26.20	229.56	43.92	207.60	1,157.76

3

Field name: 3

03/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 33 Plant date: 03/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	840.00 *ton*	Dry-weight		66.3	16,000.00	8,000.00	21,000.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	160.00	30.00	132.00	2.00
Total actual harvest content	25.45	274.50	137.25	360.28	1,098.01

4

Field name: 4

12/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 79 Plant date: 12/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	2,026.90 *ton*	Dry-weight		61.8	17,500.00	6,400.00	27,800.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	275.00	42.50	207.50	2.50
Total actual harvest content	25.66	343.03	125.45	544.93	2,077.80

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 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 (%)
10/05/2023	1,085.90 *ton*	Dry-weight		69.5	18,200.00	8,000.00	23,500.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	160.00	30.00	132.00	2.00
Total actual harvest content	13.75	152.60	67.08	197.04	536.63

5

Field name: 5

12/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 78 Plant date: 12/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,976.10 *ton*	Dry-weight		58.5	10,100.00	5,300.00	16,800.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	275.00	42.50	207.50	2.50
Total actual harvest content	25.33	212.38	111.45	353.27	1,471.94

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 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 (%)
10/05/2023	1,236.74 *ton*	Dry-weight		57.8	15,900.00	7,700.00	22,800.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	160.00	30.00	132.00	2.00
Total actual harvest content	15.86	212.78	103.04	305.11	829.69

6

Field name: 6

12/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 78 Plant date: 12/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	525.00 *ton*	Dry-weight		9.6	35,000.00	3,000.00	33,000.00		10.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	360.00	32.40	252.00	0.60
Total actual harvest content	6.73	425.92	36.51	401.58	1,232.74

7

Field name: 7

04/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 04/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/19/2023	1,861.02 *ton*	Dry-weight		66.3	16,000.00	8,000.00	21,000.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	160.00	30.00	132.00	2.00
Total actual harvest content	24.17	260.64	130.32	342.09	1,009.98

8

Field name: 8

01/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 78 Plant date: 01/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	543.90 *ton*	Dry-weight		9.6	35,000.00	3,000.00	33,000.00		10.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.80
Total actual harvest content	6.97	441.26	37.82	416.04	1,277.12

9

Field name: 9

9

01/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 78 Plant date: 01/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/15/2023	630.00 *ton*	Dry-weight		9.6	35,000.00	3,000.00	33,000.00		10.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.80
Total actual harvest content	8.08	511.11	43.81	481.90	1,479.29

NUTRIENT BUDGET

A. LAND APPLICATIONS

10 - 03/15/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 03/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/01/2023	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
Well #10	Ground water	0.00	0.00	0.00	312.43	10,467,867.00 *gal*
Application event totals		0.00	0.00	0.00	312.43	

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
Well #10	Ground water	0.00	0.00	0.00	312.43	10,467,867.00 *gal*
Application event totals		0.00	0.00	0.00	312.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/12/2023	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
Well #10	Ground water	0.00	0.00	0.00	312.43	10,467,867.00 *gal*
Application event totals		0.00	0.00	0.00	312.43	

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
Well #10	Ground water	0.00	0.00	0.00	312.43	10,467,867.00 *gal*
Application event totals		0.00	0.00	0.00	312.43	

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
Well #10	Ground water	0.00	0.00	0.00	312.43	10,467,867.00 *gal*
Application event totals		0.00	0.00	0.00	312.43	

10 - 03/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	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
Well #10	Ground water	0.00	0.00	0.00	300.49	10,067,867.00 *gal*
Application event totals		0.00	0.00	0.00	300.49	

11 - 01/01/2022: Alfalfa, hay

Field name: 11

Crop: Alfalfa, hay

Plant date: 01/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/12/2023	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
Well #10	Ground water	0.00	0.00	0.00	1,511.98	50,000,000.00 *gal*
Application event totals		0.00	0.00	0.00	1,511.98	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #10	Ground water	0.00	0.00	0.00	1,794.94	59,357,159.00 *gal*
Application event totals		0.00	0.00	0.00	1,794.94	

12 - 01/01/2021: Alfalfa, hay

Field name: 12

Crop: Alfalfa, hay

Plant date: 01/01/2021

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

12 - 01/01/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/09/2023	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
Well #10	Ground water	0.00	0.00	0.00	1,473.21	25,000,000.00 *gal*
Application event totals		0.00	0.00	0.00	1,473.21	

09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #10	Ground water	0.00	0.00	0.00	1,760.63	29,877,456.00 *gal*
Application event totals		0.00	0.00	0.00	1,760.63	

12 - 12/01/2022: Oats, hay

Field name: 12

Crop: Oats, hay

Plant date: 12/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/01/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
corrals	Corral solids	150.15	68.97	184.63	2,679.63	160.00 *ton*
Application event totals		150.15	68.97	184.63	2,679.63	

11/15/2022	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
Well #10	Ground water	0.00	0.00	0.00	235.75	4,103,240.00 *gal*
Application event totals		0.00	0.00	0.00	235.75	

03/15/2023	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
Well #10	Ground water	0.00	0.00	0.00	237.50	4,133,569.00 *gal*
Application event totals		0.00	0.00	0.00	237.50	

12 - 12/01/2022: Oats, hay

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
Well #10	Ground water	0.00	0.00	0.00	237.49	4,133,456.00 *gal*
Application event totals		0.00	0.00	0.00	237.49	

13 - 12/01/2022: Oats, hay

Field name: 13

Crop: Oats, hay

Plant date: 12/01/2022

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
corrals	Corral solids	81.29	65.11	92.49	1,949.26	200.00 *ton*
Application event totals		81.29	65.11	92.49	1,949.26	

11/15/2022	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
Well #10	Ground water	0.00	0.00	0.00	310.39	10,264,212.00 *gal*
Application event totals		0.00	0.00	0.00	310.39	

03/15/2023	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
Well #10	Ground water	0.00	0.00	0.00	186.23	6,158,527.00 *gal*
Application event totals		0.00	0.00	0.00	186.23	

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
Well #10	Ground water	0.00	0.00	0.00	186.23	6,158,550.00 *gal*
Application event totals		0.00	0.00	0.00	186.23	

13 - 06/20/2023: Corn, silage

Field name: 13

Crop: Corn, silage

Plant date: 06/20/2023

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #10	Ground water	0.00	0.00	0.00	310.39	10,264,212.00 *gal*
Application event totals		0.00	0.00	0.00	310.39	

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
Well #10	Ground water	0.00	0.00	0.00	310.39	10,264,212.00 *gal*
Application event totals		0.00	0.00	0.00	310.39	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/10/2023	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
Well #10	Ground water	0.00	0.00	0.00	310.39	10,264,212.00 *gal*
Application event totals		0.00	0.00	0.00	310.39	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #10	Ground water	0.00	0.00	0.00	310.39	10,264,212.00 *gal*
Application event totals		0.00	0.00	0.00	310.39	

2 - 03/15/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 03/15/2023

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

2 - 03/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/15/2023	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
Well #5	Ground water	0.00	0.00	0.00	587.33	6,412,008.00 *gal*
Application event totals		0.00	0.00	0.00	587.33	

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
Well #5	Ground water	0.00	0.00	0.00	795.93	8,689,280.00 *gal*
Application event totals		0.00	0.00	0.00	795.93	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/01/2023	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
Well #5	Ground water	0.00	0.00	0.00	795.93	8,689,280.00 *gal*
Application event totals		0.00	0.00	0.00	795.93	

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
Well #5	Ground water	0.00	0.00	0.00	523.19	5,711,736.00 *gal*
Application event totals		0.00	0.00	0.00	523.19	

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
Well #5	Ground water	0.00	0.00	0.00	459.07	5,011,736.00 *gal*
Application event totals		0.00	0.00	0.00	459.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	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
Well #5	Ground water	0.00	0.00	0.00	523.19	5,711,736.00 *gal*
Application event totals		0.00	0.00	0.00	523.19	

3 - 03/15/2023: Corn, silage

3 - 03/15/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 03/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/15/2023	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
Well #5	Ground water	0.00	0.00	0.00	634.25	4,480,410.00 *gal*
Application event totals		0.00	0.00	0.00	634.25	

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
Well #5	Ground water	0.00	0.00	0.00	561.22	3,964,484.00 *gal*
Application event totals		0.00	0.00	0.00	561.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/01/2023	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
Well #5	Ground water	0.00	0.00	0.00	722.66	5,104,952.00 *gal*
Application event totals		0.00	0.00	0.00	722.66	

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
Well #5	Ground water	0.00	0.00	0.00	722.66	5,104,952.00 *gal*
Application event totals		0.00	0.00	0.00	722.66	

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
Well #5	Ground water	0.00	0.00	0.00	581.10	4,104,952.00 *gal*
Application event totals		0.00	0.00	0.00	581.10	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	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
Well #5	Ground water	0.00	0.00	0.00	496.17	3,504,952.00 *gal*
Application event totals		0.00	0.00	0.00	496.17	

4 - 12/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 12/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
corrals	Corral solids	166.30	76.39	204.49	2,967.95	350.00 *ton*
Application event totals		166.30	76.39	204.49	2,967.95	

11/20/2022	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
Well #7	Ground water	0.11	0.00	0.00	700.42	10,834,446.00 *gal*
Application event totals		0.11	0.00	0.00	700.42	

01/20/2023	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	198.66	44.40	398.90	1,960.71	5,333,778.00 *gal*
Well #7	Ground water	0.04	0.00	0.00	272.95	4,222,162.00 *gal*
Application event totals		198.71	44.40	398.90	2,233.66	

03/15/2023	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
Well #5	Ground water	0.00	0.00	0.00	250.81	4,241,455.00 *gal*
Application event totals		0.00	0.00	0.00	250.81	

04/15/2023	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
Well #7	Ground water	0.03	0.00	0.00	209.55	3,241,455.00 *gal*
Application event totals		0.03	0.00	0.00	209.55	

4 - 06/20/2023: Corn, silage

4 - 06/20/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/20/2023

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
lagoon	Process wastewater	161.42	36.07	324.12	1,593.11	4,333,778.00 *gal*
Well #5	Ground water	0.09	0.00	0.00	532.79	8,241,455.00 *gal*
Application event totals		161.50	36.07	324.12	2,125.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	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
Well #7	Ground water	0.09	0.00	0.00	561.74	8,689,280.00 *gal*
Application event totals		0.09	0.00	0.00	561.74	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #5	Ground water	0.00	0.00	0.00	640.68	10,834,446.00 *gal*
Application event totals		0.00	0.00	0.00	640.68	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #5	Ground water	0.00	0.00	0.00	754.68	12,762,380.00 *gal*
Application event totals		0.00	0.00	0.00	754.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/20/2023	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
Well #7	Ground water	0.20	0.00	0.00	1,242.80	19,224,335.00 *gal*
Application event totals		0.20	0.00	0.00	1,242.80	

5 - 12/01/2022: Wheat, silage, boot stage

5 - 12/01/2022: Wheat, silage, boot stage

Field name: 5

Crop: Wheat, silage, boot stage

Plant date: 12/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/16/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
corrals	Corral solids	118.81	95.17	135.17	2,848.92	300.00 *ton*
Application event totals		118.81	95.17	135.17	2,848.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/20/2022	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
Well #5	Ground water	0.00	0.00	0.00	632.63	10,562,906.00 *gal*
Application event totals		0.00	0.00	0.00	632.63	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
lagoon	Process wastewater	125.76	28.11	252.52	1,241.22	3,333,778.00 *gal*
Application event totals		125.76	28.11	252.52	1,241.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/16/2023	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
Well #5	Ground water	0.00	0.00	0.00	379.58	6,337,744.00 *gal*
Application event totals		0.00	0.00	0.00	379.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/16/2023	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
Well #5	Ground water	0.00	0.00	0.00	379.58	6,337,744.00 *gal*
Application event totals		0.00	0.00	0.00	379.58	

5 - 06/20/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/20/2023

5 - 06/20/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
lagoon	Process wastewater	201.21	44.97	404.02	1,985.85	5,333,778.00 *gal*
Well #5	Ground water	0.00	0.00	0.00	506.10	8,450,325.00 *gal*
Application event totals		201.21	44.97	404.02	2,491.95	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #5	Ground water	0.00	0.00	0.00	520.41	8,689,280.00 *gal*
Application event totals		0.00	0.00	0.00	520.41	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/26/2023	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
Well #5	Ground water	0.00	0.00	0.00	634.25	10,590,060.00 *gal*
Application event totals		0.00	0.00	0.00	634.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/16/2023	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
Well #7	Ground water	0.13	0.00	0.00	820.18	12,526,358.00 *gal*
Application event totals		0.13	0.00	0.00	820.18	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #7	Ground water	0.18	0.00	0.00	1,077.49	16,456,258.00 *gal*
Application event totals		0.18	0.00	0.00	1,077.49	

6 - 12/01/2022: Alfalfa, hay

Field name: 6

Crop: Alfalfa, hay

Plant date: 12/01/2022

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

6 - 12/01/2022: Alfalfa, hay

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
Well #5	Ground water	0.00	0.00	0.00	2,994.57	50,000,000.00 *gal*
Application event totals		0.00	0.00	0.00	2,994.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #7	Ground water	0.65	0.00	0.00	3,958.48	60,456,782.00 *gal*
Application event totals		0.65	0.00	0.00	3,958.48	

7 - 04/01/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 04/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/15/2023	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
Well #7	Ground water	0.12	0.00	0.00	751.03	11,323,218.00 *gal*
Application event totals		0.12	0.00	0.00	751.03	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Well #5	Ground water	0.00	0.00	0.00	686.97	11,323,218.00 *gal*
Application event totals		0.00	0.00	0.00	686.97	

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
Well #5	Ground water	0.00	0.00	0.00	870.37	14,346,218.00 *gal*
Application event totals		0.00	0.00	0.00	870.37	

7 - 04/01/2023: Corn, silage

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
Well #7	Ground water	0.12	0.00	0.00	755.17	11,385,624.00 *gal*
Application event totals		0.12	0.00	0.00	755.17	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	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
Well #7	Ground water	0.08	0.00	0.00	500.69	7,548,812.00 *gal*
Application event totals		0.08	0.00	0.00	500.69	

8 - 01/01/2022: Alfalfa, hay

Field name: 8

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/10/2023	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
Well #10	Ground water	0.00	0.00	0.00	1,473.21	50,000,000.00 *gal*
Application event totals		0.00	0.00	0.00	1,473.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #10	Ground water	0.00	0.00	0.00	1,772.55	60,159,357.00 *gal*
Application event totals		0.00	0.00	0.00	1,772.55	

9 - 01/01/2022: Alfalfa, hay

Field name: 9

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

9 - 01/01/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/11/2023	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 #10	Ground water	0.00	0.00	0.00	1,473.21	50,000,000.00 *gal*
Application event totals		0.00	0.00	0.00	1,473.21	

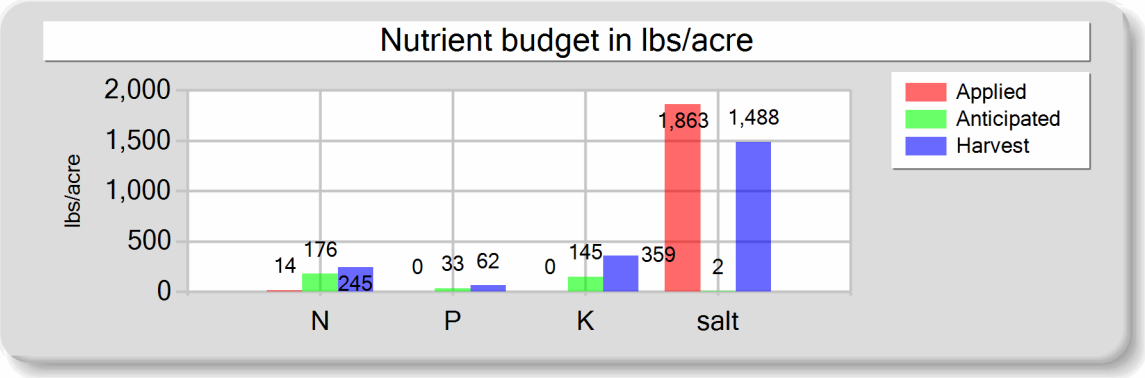
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well #10	Ground water	0.00	0.00	0.00	1,775.48	60,258,654.00 *gal*
Application event totals		0.00	0.00	0.00	1,775.48	

B. NUTRIENT BUDGET

10 - 03/15/2023: Corn, silage

Field name: 10 Crop: Corn, silage Plant date: 03/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	1,862.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	1,862.66
Anticipated crop nutrient removal	176.00	33.00	145.20	2.20
Actual crop nutrient removal	244.61	61.58	359.21	1,488.16
Nutrient balance	-230.61	-61.58	-359.21	374.50
Applied to removed ratio	0.06	0.00	0.00	1.25

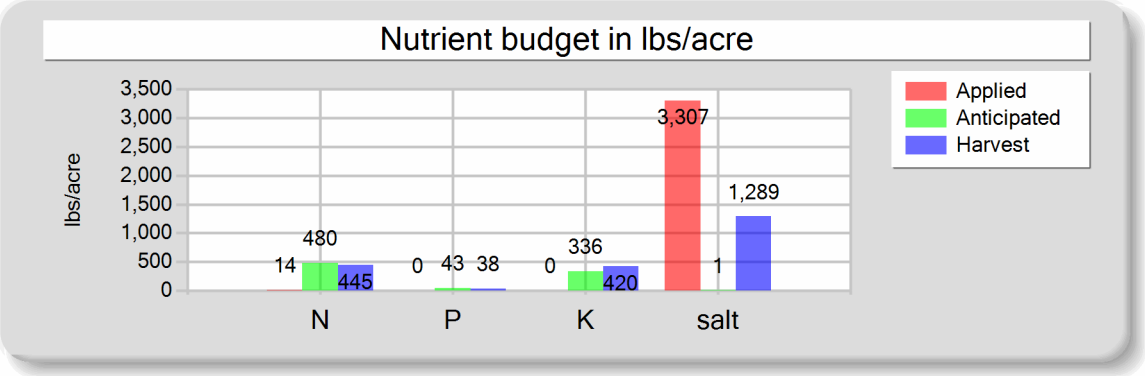
Fresh water applied	
62,407,202.00	*gallons*
2,298.25	*acre-inches*
29.85	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

11 - 01/01/2022: Alfalfa, hay

Field name: 11 Crop: Alfalfa, hay Plant date: 01/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,306.92
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	3,306.92
Anticipated crop nutrient removal	480.00	43.20	336.00	0.80
Actual crop nutrient removal	445.46	38.18	420.00	1,289.28
Nutrient balance	-431.46	-38.18	-420.00	2,017.64
Applied to removed ratio	0.03	0.00	0.00	2.56

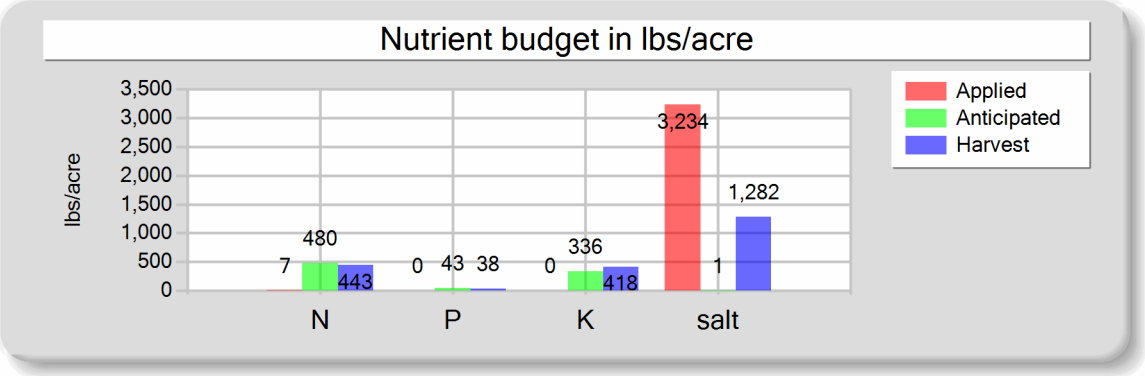
Fresh water applied	
109,357,159.00	*gallons*
4,027.25	*acre-inches*
52.99	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

12 - 01/01/2021: Alfalfa, hay

Field name: 12 Crop: Alfalfa, hay Plant date: 01/01/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,233.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	7.00	0.00	0.00	3,233.85
Anticipated crop nutrient removal	480.00	43.20	336.00	0.80
Actual crop nutrient removal	442.96	37.97	417.65	1,282.05
Nutrient balance	-435.96	-37.97	-417.65	1,951.80
Applied to removed ratio	0.02	0.00	0.00	2.52

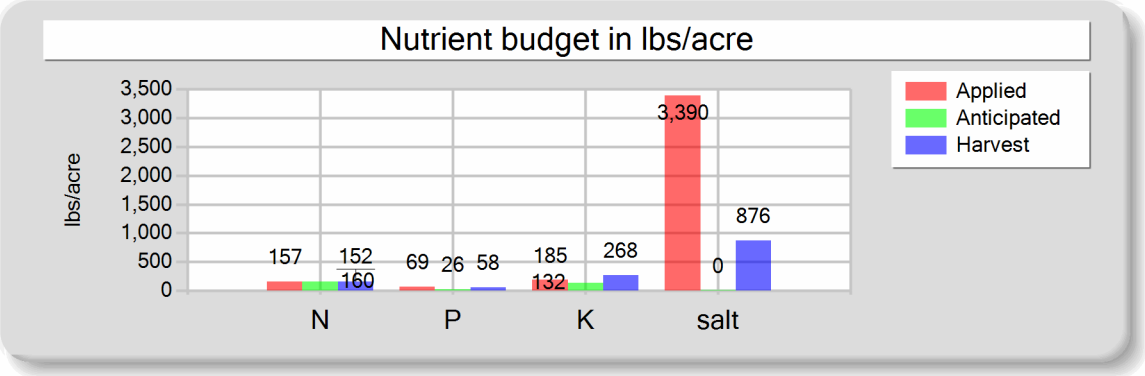
Fresh water applied	
54,877,456.00	*gallons*
2,020.95	*acre-inches*
51.82	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

12 - 12/01/2022: Oats, hay

Field name: 12 Crop: Oats, hay Plant date: 12/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	150.15	68.97	184.63	2,679.63
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	710.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	157.15	68.97	184.63	3,390.37
Anticipated crop nutrient removal	160.00	26.00	132.00	0.40
Actual crop nutrient removal	152.33	58.39	267.85	875.92
Nutrient balance	4.81	10.57	-83.23	2,514.45
Applied to removed ratio	1.03	1.18	0.69	3.87

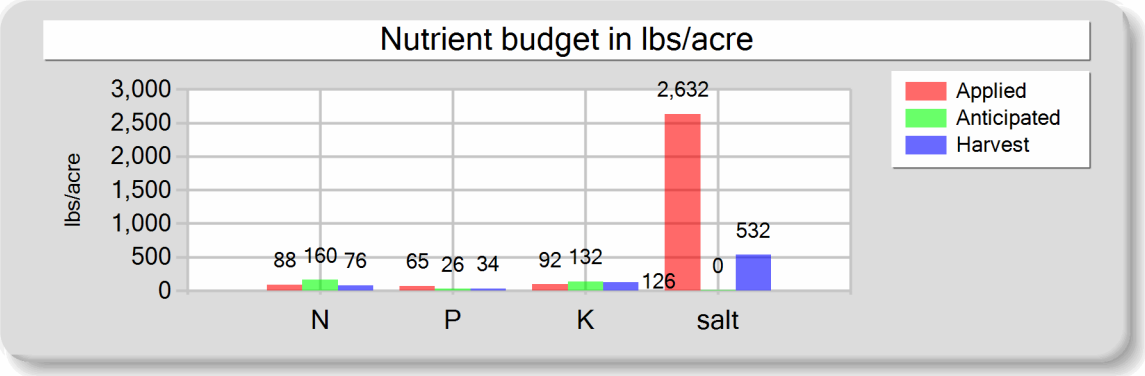
Fresh water applied	
12,370,265.00	*gallons*
455.55	*acre-inches*
11.39	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

13 - 12/01/2022: Oats, hay

Field name: 13 Crop: Oats, hay Plant date: 12/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	81.29	65.11	92.49	1,949.26
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	682.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	88.29	65.11	92.49	2,632.11
Anticipated crop nutrient removal	160.00	26.00	132.00	0.40
Actual crop nutrient removal	75.74	33.50	126.00	531.67
Nutrient balance	12.54	31.61	-33.51	2,100.44
Applied to removed ratio	1.17	1.94	0.73	4.95

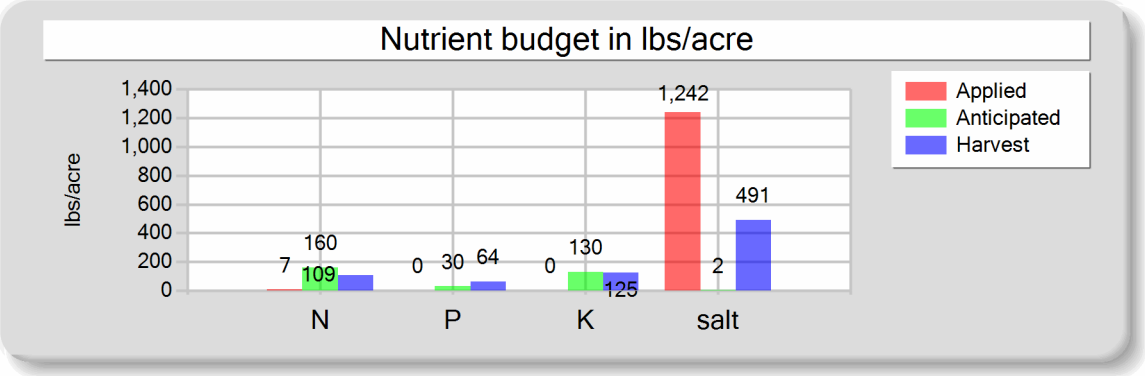
Fresh water applied	
22,581,289.00	*gallons*
831.59	*acre-inches*
10.94	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

13 - 06/20/2023: Corn, silage

Field name: 13 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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	1,241.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	7.00	0.00	0.00	1,241.54
Anticipated crop nutrient removal	160.00	30.00	130.00	2.00
Actual crop nutrient removal	109.32	64.16	125.16	491.14
Nutrient balance	-102.32	-64.16	-125.16	750.41
Applied to removed ratio	0.06	0.00	0.00	2.53

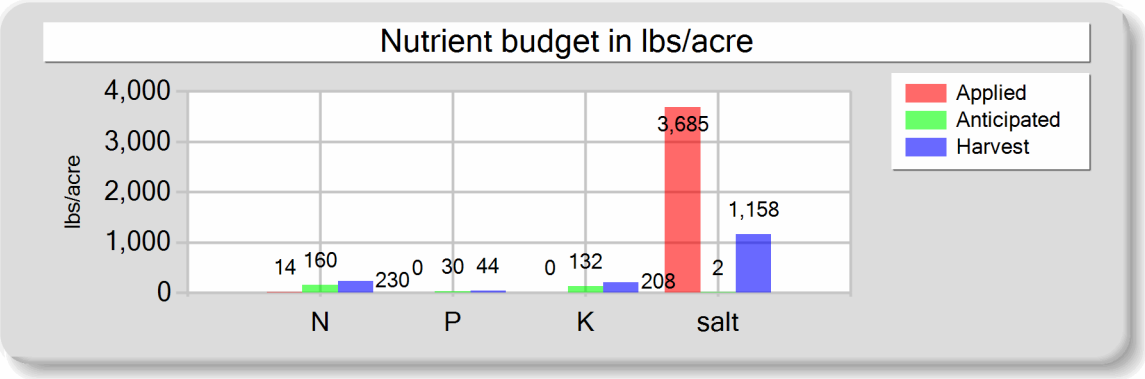
Fresh water applied	
41,056,848.00	*gallons*
1,511.98	*acre-inches*
19.89	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

2 - 03/15/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 03/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,684.63
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	3,684.63
Anticipated crop nutrient removal	160.00	30.00	132.00	2.00
Actual crop nutrient removal	229.56	43.92	207.60	1,157.76
Nutrient balance	-215.56	-43.92	-207.60	2,526.86
Applied to removed ratio	0.06	0.00	0.00	3.18

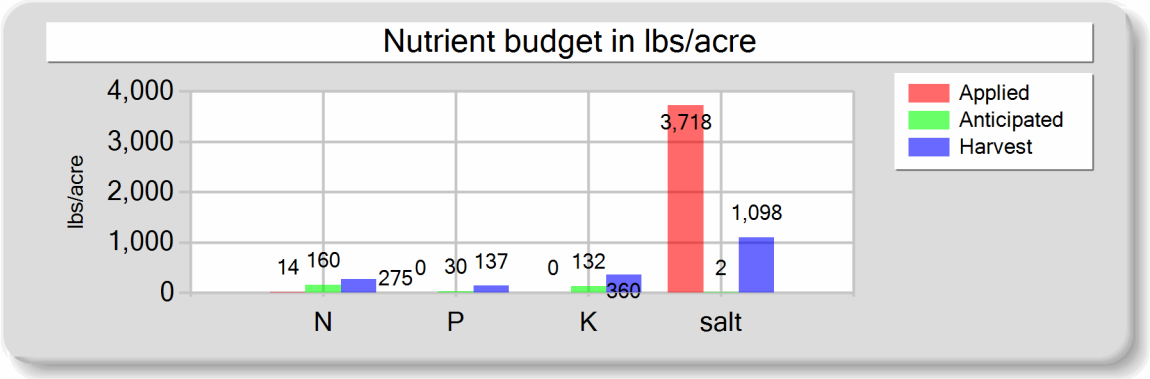
Fresh water applied	
40,225,776.00	*gallons*
1,481.38	*acre-inches*
29.05	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3 - 03/15/2023: Corn, silage

Field name: 3 Crop: Corn, silage Plant date: 03/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,718.07
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	3,718.07
Anticipated crop nutrient removal	160.00	30.00	132.00	2.00
Actual crop nutrient removal	274.50	137.25	360.28	1,098.01
Nutrient balance	-260.50	-137.25	-360.28	2,620.06
Applied to removed ratio	0.05	0.00	0.00	3.39

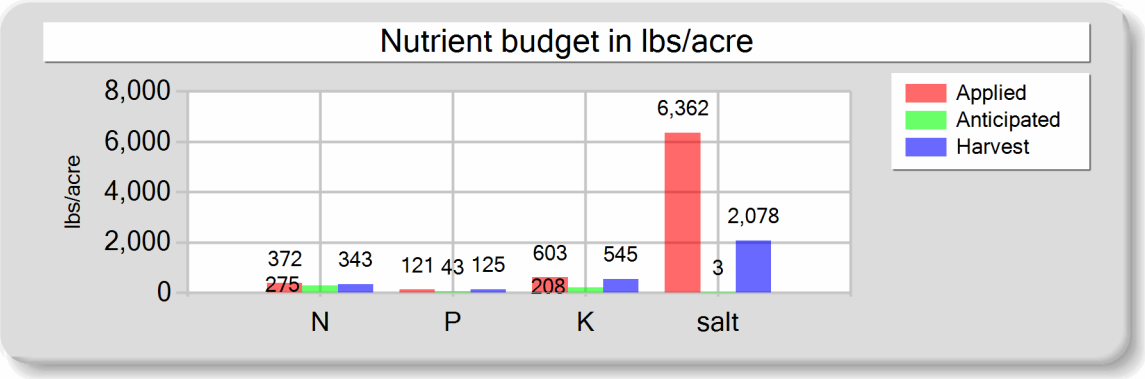
Fresh water applied	
26,264,702.00	*gallons*
967.24	*acre-inches*
29.31	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

4 - 12/01/2022: Wheat, silage, boot stage

Field name: 4 Crop: Wheat, silage, boot stage Plant date: 12/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	166.30	76.39	204.49	2,967.95
Process wastewater	198.66	44.40	398.90	1,960.71
Fresh water	0.19	0.00	0.00	1,433.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	372.16	120.78	603.40	6,362.39
Anticipated crop nutrient removal	275.00	42.50	207.50	2.50
Actual crop nutrient removal	343.03	125.45	544.93	2,077.80
Nutrient balance	29.12	-4.67	58.46	4,284.59
Applied to removed ratio	1.08	0.96	1.11	3.06

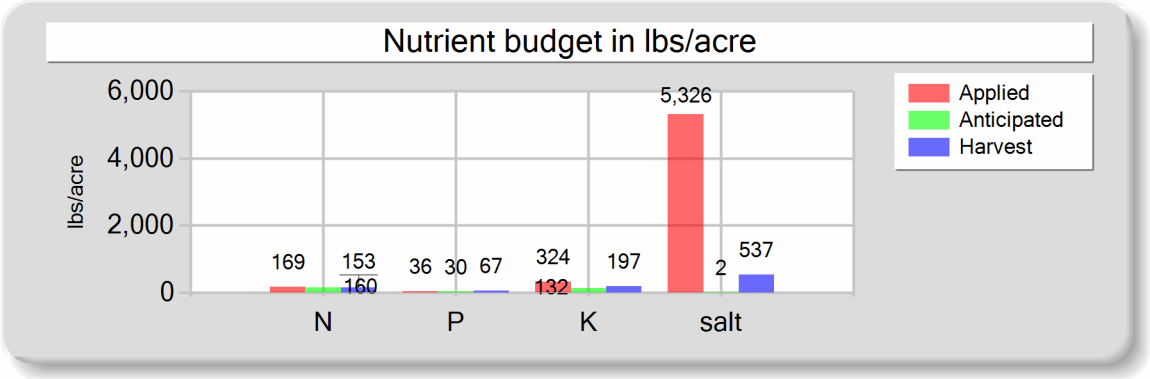
Fresh water applied	
22,539,518.00	*gallons*
830.05	*acre-inches*
10.51	*inches/acre*

Process wastewater applied	
5,333,778.00	*gallons*
196.42	*acre-inches*
2.49	*inches/acre*

Total harvests for the crop	
1	*harvests*

4 - 06/20/2023: Corn, silage

Field name: 4 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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	161.42	36.07	324.12	1,593.11
Fresh water	0.38	0.00	0.00	3,732.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	168.80	36.07	324.12	5,325.80
Anticipated crop nutrient removal	160.00	30.00	132.00	2.00
Actual crop nutrient removal	152.60	67.08	197.04	536.63
Nutrient balance	16.20	-31.00	127.07	4,789.17
Applied to removed ratio	1.11	0.54	1.64	9.92

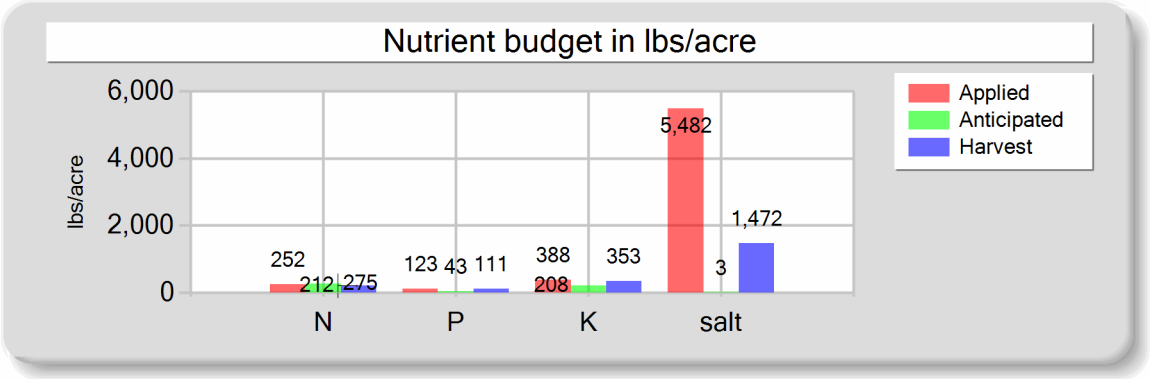
Fresh water applied	
59,751,896.00	*gallons*
2,200.46	*acre-inches*
27.85	*inches/acre*

Process wastewater applied	
4,333,778.00	*gallons*
159.60	*acre-inches*
2.02	*inches/acre*

Total harvests for the crop	
1	*harvests*

5 - 12/01/2022: Wheat, silage, boot stage

Field name: 5 Crop: Wheat, silage, boot stage Plant date: 12/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	118.81	95.17	135.17	2,848.92
Process wastewater	125.76	28.11	252.52	1,241.22
Fresh water	0.00	0.00	0.00	1,391.78
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	251.57	123.27	387.70	5,481.92
Anticipated crop nutrient removal	275.00	42.50	207.50	2.50
Actual crop nutrient removal	212.38	111.45	353.27	1,471.94
Nutrient balance	39.19	11.82	34.43	4,009.98
Applied to removed ratio	1.18	1.11	1.10	3.72

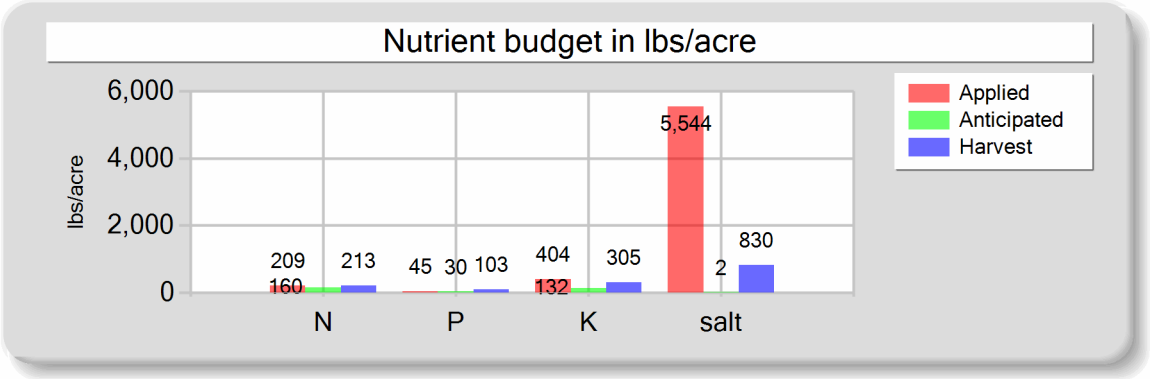
Fresh water applied	
23,238,394.00	*gallons*
855.79	*acre-inches*
10.97	*inches/acre*

Process wastewater applied	
3,333,778.00	*gallons*
122.77	*acre-inches*
1.57	*inches/acre*

Total harvests for the crop	
1	*harvests*

5 - 06/20/2023: Corn, silage

Field name: 5 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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	201.21	44.97	404.02	1,985.85
Fresh water	0.31	0.00	0.00	3,558.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	208.52	44.97	404.02	5,544.29
Anticipated crop nutrient removal	160.00	30.00	132.00	2.00
Actual crop nutrient removal	212.78	103.04	305.11	829.69
Nutrient balance	-4.26	-58.08	98.90	4,714.59
Applied to removed ratio	0.98	0.44	1.32	6.68

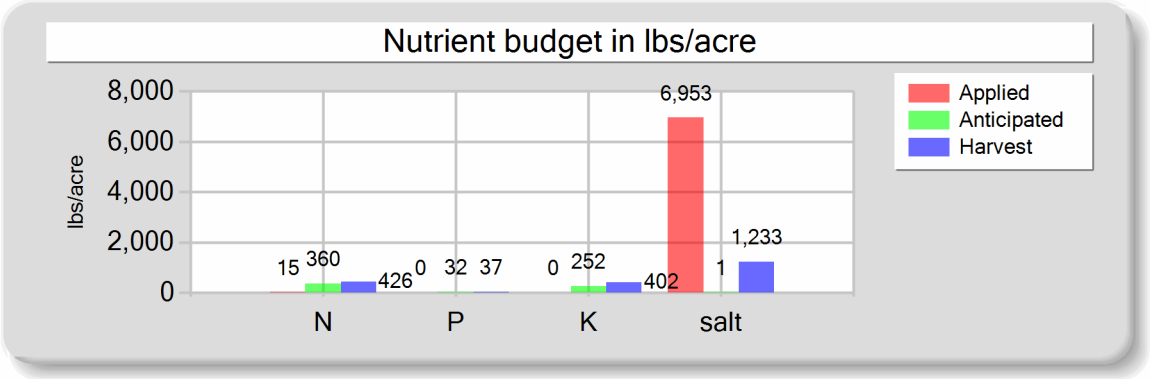
Fresh water applied	
56,712,281.00	*gallons*
2,088.52	*acre-inches*
26.78	*inches/acre*

Process wastewater applied	
5,333,778.00	*gallons*
196.42	*acre-inches*
2.52	*inches/acre*

Total harvests for the crop	
1	*harvests*

6 - 12/01/2022: Alfalfa, hay

Field name: 6 Crop: Alfalfa, hay Plant date: 12/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.65	0.00	0.00	6,953.05
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.65	0.00	0.00	6,953.05
Anticipated crop nutrient removal	360.00	32.40	252.00	0.60
Actual crop nutrient removal	425.92	36.51	401.58	1,232.74
Nutrient balance	-411.28	-36.51	-401.58	5,720.31
Applied to removed ratio	0.03	0.00	0.00	5.64

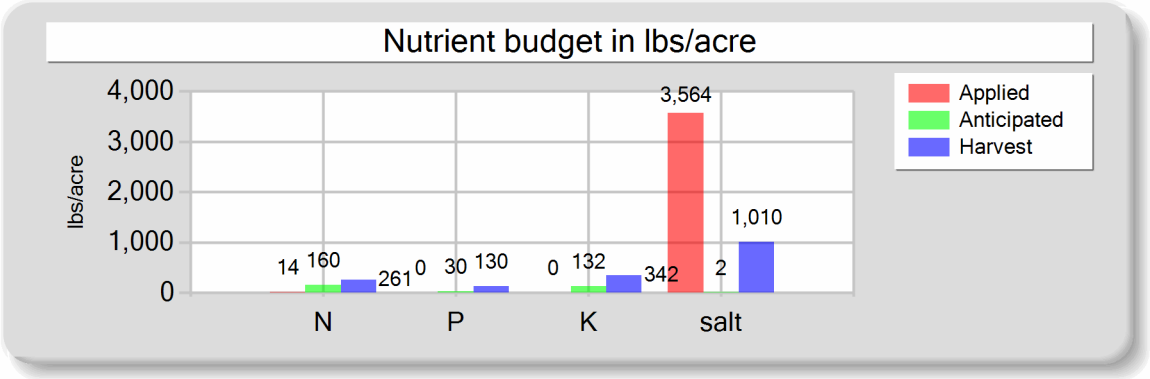
Fresh water applied	
110,456,782.00	*gallons*
4,067.75	*acre-inches*
52.15	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

7 - 04/01/2023: Corn, silage

Field name: 7 Crop: Corn, silage Plant date: 04/01/2023



	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	0.33	0.00	0.00	3,564.23
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.33	0.00	0.00	3,564.23
Anticipated crop nutrient removal	160.00	30.00	132.00	2.00
Actual crop nutrient removal	260.64	130.32	342.09	1,009.98
Nutrient balance	-246.31	-130.32	-342.09	2,554.25
Applied to removed ratio	0.05	0.00	0.00	3.53

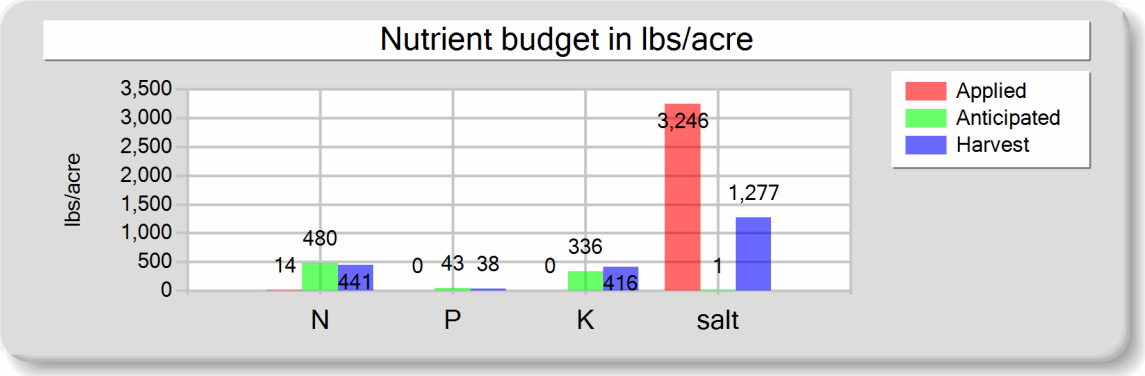
Fresh water applied	
55,927,090.00	*gallons*
2,059.60	*acre-inches*
26.75	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

8 - 01/01/2022: Alfalfa, hay

Field name: 8 Crop: Alfalfa, hay Plant date: 01/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,245.76
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	3,245.76
Anticipated crop nutrient removal	480.00	43.20	336.00	0.80
Actual crop nutrient removal	441.26	37.82	416.04	1,277.12
Nutrient balance	-427.26	-37.82	-416.04	1,968.64
Applied to removed ratio	0.03	0.00	0.00	2.54

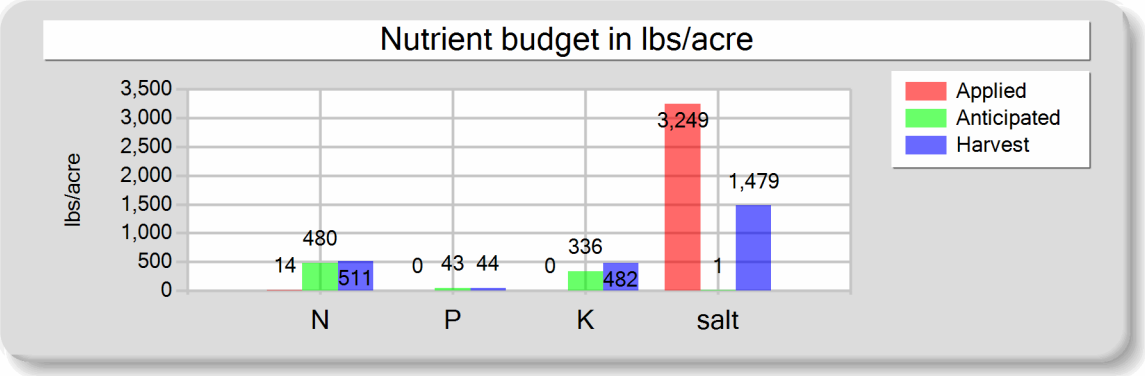
Fresh water applied	
110,159,357.00	*gallons*
4,056.79	*acre-inches*
52.01	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

9 - 01/01/2022: Alfalfa, hay

Field name: 9 Crop: Alfalfa, hay Plant date: 01/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	3,248.69
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	3,248.69
Anticipated crop nutrient removal	480.00	43.20	336.00	0.80
Actual crop nutrient removal	511.11	43.81	481.90	1,479.29
Nutrient balance	-497.11	-43.81	-481.90	1,769.40
Applied to removed ratio	0.03	0.00	0.00	2.20

Fresh water applied	
110,258,654.00	*gallons*
4,060.45	*acre-inches*
52.06	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

23K0872 Dry Cow

Sample and source description: 23K0872 Dry Cow

Sample date: 11/15/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.2 %

	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	20,900.00	9,600.00	25,700.00	15,200.00	4,900.00	3,500.00	3,700.00	100.00		37.30
DL	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20		0.10

23K0872 Milk Cow

Sample and source description: 23K0872 Milk Cow

Sample date: 11/15/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 21.2 %

	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	19,600.00	15,700.00	22,300.00	15,900.00	8,000.00	5,700.00	4,600.00	500.00		47.00
DL	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20		0.10

B. PROCESS WASTEWATER ANALYSES

23E1349

Sample and source description: 23E1349

Sample date: 05/15/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.90

	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	352.00	271.00	0.00	0.60	78.80	708.00								6,910.00	3,480
DL	0.02	0.20	0.10	0.10	0.10	0.10								10.00	10

C. FRESH WATER ANALYSES

Barn Well

23E1348

Sample description: 23E1348

Sample date: 05/15/2023 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	0.20		0.20								726.00	
DL	0.10		0.10								10.00	

Well #10

23E1348

Sample description: 23E1348

Sample date: 05/15/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00								459.00	
DL	0.10		0.10								0.10	

Well #5

23E1348

Sample description: 23E1348

Sample date: 05/15/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00								933.00	
DL	0.10		0.10								0.10	

Well #7

Well #7

23E1348

Sample description: 23E1348

Sample date: 05/15/2023 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	0.10		0.10								1,020.00	
DL	0.10		0.10								0.10	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

10 - 03/15/2023: Corn, silage

Average

Sample and source description: Average

Sample date: 07/19/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,300.00	3,600.00	21,000.00		8.70
DL	0.10	0.10	0.10		0.10

11 - 01/01/2022: Alfalfa, hay

11 - 01/01/2022: Alfalfa, hay

Average

Sample and source description: Average

Sample date: 07/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,000.00	3,000.00	33,000.00		10.13
DL	0.10	0.01	0.01		0.01

12 - 01/01/2021: Alfalfa, hay

Average

Sample and source description: Average

Sample date: 07/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,000.00	3,000.00	33,000.00		10.13
DL	0.10	0.01	0.01		0.01

12 - 12/01/2022: Oats, hay

23E1346

Sample and source description: 23E1346

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 7.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	4,600.00	21,100.00		6.90
DL	0.10	0.10	0.10		0.01

13 - 12/01/2022: Oats, hay

23E1346

Sample and source description: 23E1346

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 6.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,400.00	4,600.00	17,300.00		7.30
DL	0.10	0.10	0.10		0.01

13 - 06/20/2023: Corn, silage

23J0598

Sample and source description: 23J0598

Sample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,800.00	8,100.00	15,800.00		6.20
DL	0.10	0.01	0.01		0.01

2 - 03/15/2023: Corn, silage

average

Sample and source description: average

Sample date: 07/25/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	2,200.00	10,400.00		5.80
DL	0.10	0.10	0.10		0.10

3 - 03/15/2023: Corn, silage

23J0598 Ave

Sample and source description: 23J0598 Ave

Sample date: 07/15/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,000.00	8,000.00	21,000.00		6.40
DL	0.10	0.01	0.01		0.01

4 - 12/01/2022: Wheat, silage, boot stage

23E1345

Sample and source description: 23E1345

Sample date: 12/01/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,500.00	6,400.00	27,800.00		10.60
DL	0.10	0.10	0.10		0.01

4 - 06/20/2023: Corn, silage

23J0598

Sample and source description: 23J0598

Sample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,200.00	8,000.00	23,500.00		6.40
DL	0.10	0.01	0.01		0.01

5 - 12/01/2022: Wheat, silage, boot stage

23E1345

Sample and source description: 23E1345

Sample date: 12/01/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,100.00	5,300.00	16,800.00		7.00
DL	0.10	0.10	0.10		0.01

5 - 06/20/2023: Corn, silage

23j0589

Sample and source description: 23j0589

Sample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 57.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,900.00	7,700.00	22,800.00		6.20
DL	0.10	0.01	0.01		0.01

6 - 12/01/2022: Alfalfa, hay

Average

Sample and source description: Average

Sample date: 07/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,000.00	3,000.00	33,000.00		10.13
DL	0.10	0.01	0.01		0.01

7 - 04/01/2023: Corn, silage

23J0598 ave

Sample and source description: 23J0598 ave

Sample date: 10/06/2023 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,000.00	8,000.00	21,000.00		6.20
DL	0.10	0.01	0.01		0.01

8 - 01/01/2022: Alfalfa, hay

Average

Sample and source description: Average

Sample date: 07/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,000.00	3,000.00	33,000.00		10.13
DL	0.10	0.01	0.01		0.01

9 - 01/01/2022: Alfalfa, hay

Average

Sample and source description: Average

Sample date: 07/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,000.00	3,000.00	33,000.00		10.13
DL	0.10	0.01	0.01		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

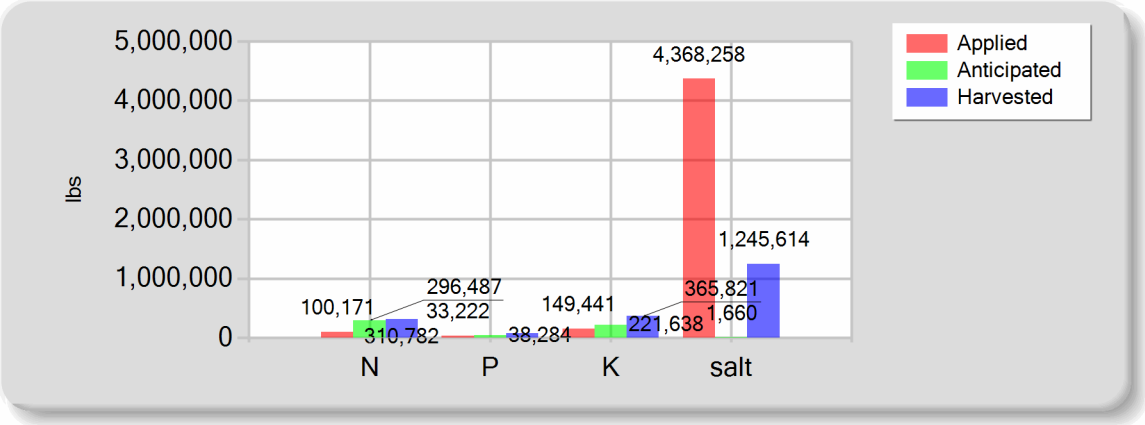
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

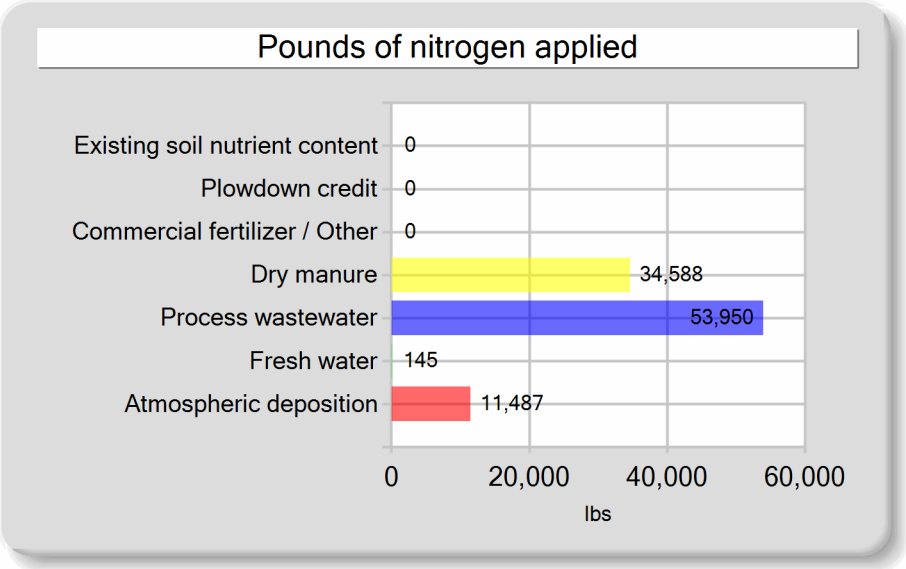
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

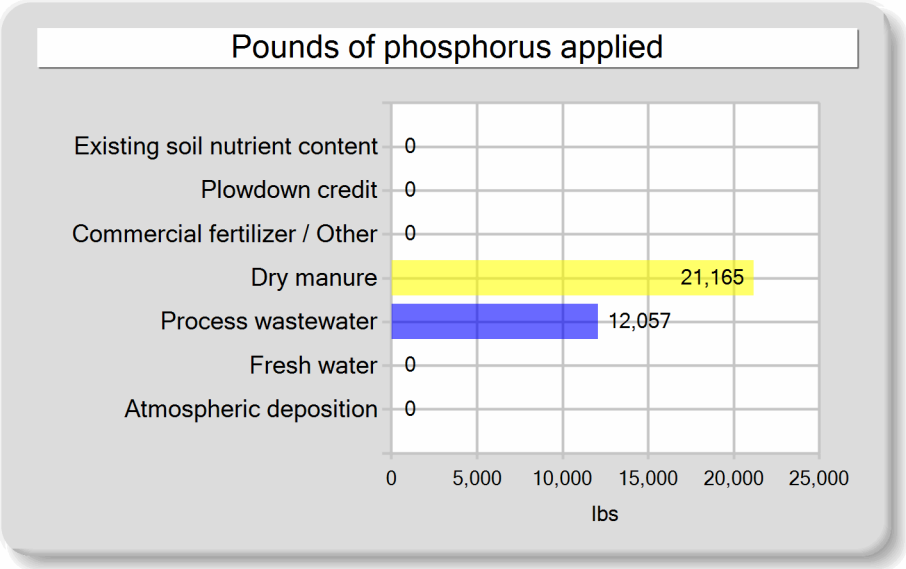
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	34,588.36	21,164.82	41,112.57	712,013.08
Process wastewater	53,950.10	12,056.91	108,328.61	532,462.65
Fresh water	145.33	0.00	0.00	3,123,782.29
Atmospheric deposition	11,487.00	0.00	0.00	0.00
Total nutrients applied	100,170.79	33,221.73	149,441.18	4,368,258.02
Anticipated crop nutrient removal	296,487.00	38,283.90	221,637.90	1,659.90
Actual crop nutrient removal	310,782.04	76,841.19	365,820.63	1,245,614.11
Nutrient balance	-210,611.26	-43,619.46	-216,379.45	3,122,643.91
Applied to removed ratio	0.32	0.43	0.41	3.51

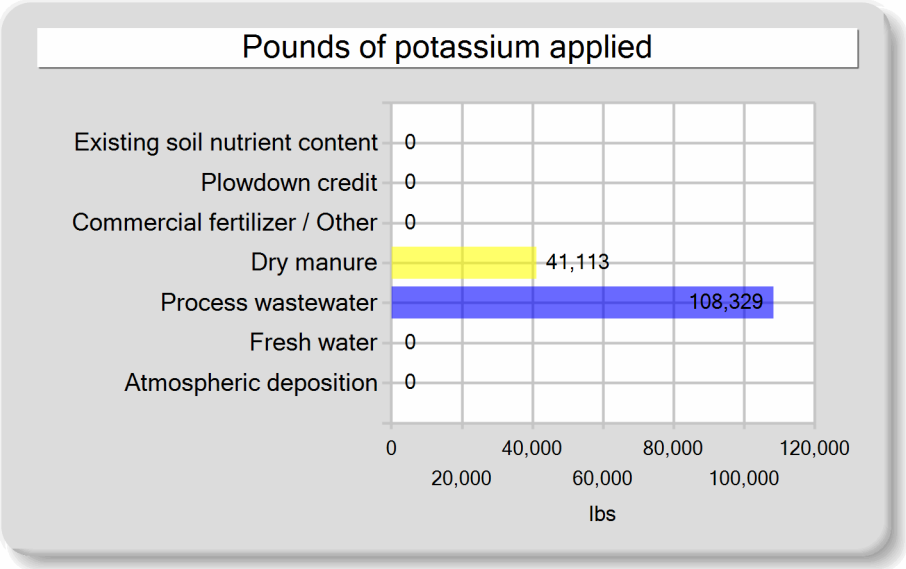
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

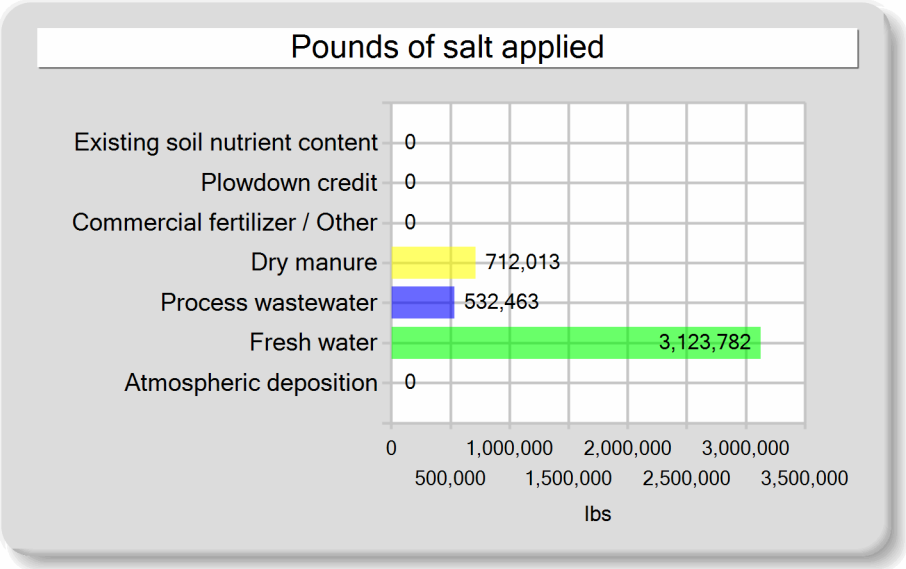


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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

No added nutrients alfalfa #6, #8, #9, #11, #13
Discontinue small Heifers Jan, 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	SIGNATURE OF OPERATOR OF FACILITY
Jean P and Deanna A Petrissans Family Trust	Jean Pierre Petrissans
PRINT OR TYPE NAME	PRINT OR TYPE NAME
DATE	DATE

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

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

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

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

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

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

PETRISSANS DAIRY

Supporting Documents

Abstract

2023 Annual Report support documents

Griffin Dairy Consultant LLC
griffinj1647@yahoo.com

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	SIGNATURE OF OPERATOR OF FACILITY
Jean P and Deanna A Petrissans Family Trust	Jean Pierre Petrissans
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6-27-24	6-27-24
DATE	DATE

DELLAVALLE™
LABORATORY INC

Petrissans Dairy
5111 Bear Mountain Blvd
Bakersfield, CA 93313

Account# 00-0016306
Account Manager: House
Submitted By: Jean

Received: 05/15/2023 16:24
Reported: 05/18/2023 13:29

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E1348-01	Well #5	Ag Water		Irrigation Well	05/14/2023 0:00
23E1348-02	Well #7	Ag Water		Irrigation Well	05/14/2023 0:00
23E1348-03	Well #10	Ag Water		Irrigation Well	05/14/2023 0:00
23E1348-04	Barn	Ag Water		Irrigation Well	05/14/2023 0:00

Default Cooler Temperature on Receipt °C: 19.6
Containers Intact
COC/Labels Agree

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™
LABORATORY INC

Petrissans Dairy
5111 Bear Mountain Blvd
Bakersfield, CA 93313

Account# 00-0016306
Account Manager: House
Submitted By: Jean

Received: 05/15/2023 16:24
Reported: 05/18/2023 13:29

Sample Results

Sample: Well #5
23E1348-01 (Water)

Sampled: 5/14/2023 0:00
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.93**	mmhos/cm	0.01	1		05/17/23 10:20	SM 2510 B		BEE0618
Electrical Conductivity umhos	**933**	umhos/cm	10.0	1		05/17/23 10:20	SM 2510 B		BEE0618
Ammonia (as N)	*	mg/L	0.00	1		05/14/23 00:00	Field		BEE0544
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	05/15/23 19:13	EPA 300.0		BEE0516
pH	**7.9**	units	1.0	1		05/17/23 10:20	SM 4500-H+	H	BEE0618
Temperature	**25.0**	°C	0.0	1		05/17/23 10:20	SM 2510 B		BEE0618

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LABORATORY INC

Petrissans Dairy
5111 Bear Mountain Blvd
Bakersfield, CA 93313

Account# 00-0016306
Account Manager: House
Submitted By: Jean

Received: 05/15/2023 16:24
Reported: 05/18/2023 13:29

Sample Results
(Continued)

Sample: Well #7
23E1348-02 (Water)

Sampled: 5/14/2023 0:00
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.02**	mmhos/cm	0.01	1		05/17/23 10:21	SM 2510 B		BEE0618
Electrical Conductivity umhos	**1020**	umhos/cm	10.0	1		05/17/23 10:21	SM 2510 B		BEE0618
Ammonia (as N)	*	mg/L	0.00	1		05/14/23 00:00	Field		BEE0544
Nitrate Nitrogen as NO3N	**0.1**	mg/L	0.1	1	10	05/15/23 19:33	EPA 300.0		BEE0516
pH	**7.9**	units	1.0	1		05/17/23 10:21	SM 4500-H+	H	BEE0618
Temperature	**25.0**	°C	0.0	1		05/17/23 10:21	SM 2510 B		BEE0618

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DELLAVALLE™
LABORATORY INC

Petrissans Dairy
5111 Bear Mountain Blvd
Bakersfield, CA 93313

Account# 00-0016306
Account Manager: House
Submitted By: Jean

Received: 05/15/2023 16:24
Reported: 05/18/2023 13:29

Sample Results
(Continued)

Sample: Well #10
23E1348-03 (Water)

Sampled: 5/14/2023 0:00
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.46**	mmhos/cm	0.01	1		05/17/23 10:28	SM 2510 B		BEE0618
Electrical Conductivity umhos	**459**	umhos/cm	10.0	1		05/17/23 10:28	SM 2510 B		BEE0618
Ammonia (as N)	*	mg/L	0.00	1		05/14/23 00:00	Field		BEE0544
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	05/15/23 19:52	EPA 300.0		BEE0516
pH	**8.0**	units	1.0	1		05/17/23 10:28	SM 4500-H+	H	BEE0618
Temperature	**25.0**	°C	0.0	1		05/17/23 10:28	SM 2510 B		BEE0618

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DELLAVALLE™
LABORATORY INC

Petrissans Dairy
5111 Bear Mountain Blvd
Bakersfield, CA 93313

Account# 00-0016306
Account Manager: House
Submitted By: Jean

Received: 05/15/2023 16:24
Reported: 05/18/2023 13:29

Sample Results
(Continued)

Sample: Barn
23E1348-04 (Water)

Sampled: 5/14/2023 0:00
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.73**	mmhos/cm	0.01	1		05/17/23 10:29	SM 2510 B		BEE0618
Electrical Conductivity umhos	**726**	umhos/cm	10.0	1		05/17/23 10:29	SM 2510 B		BEE0618
Ammonia (as N)	*	mg/L	0.00	1		05/14/23 00:00	Field		BEE0544
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	05/15/23 20:12	EPA 300.0		BEE0516
pH	**7.8**	units	1.0	1		05/17/23 10:29	SM 4500-H+	H	BEE0618
Temperature	**25.0**	°C	0.0	1		05/17/23 10:29	SM 2510 B		BEE0618

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DELLAVALLE™
LABORATORY INC

Petrissans Dairy
5111 Bear Mountain Blvd
Bakersfield, CA 93313

Account# 00-0016306
Account Manager: House
Submitted By: Jean

Received: 05/15/2023 16:24
Reported: 05/18/2023 13:29

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0516										
Blank (BEE0516-BLK1)					Prepared & Analyzed: 5/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEE0516-BLK2)					Prepared & Analyzed: 5/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEE0516-BS1)					Prepared & Analyzed: 5/15/2023					
Nitrate Nitrogen as NO3N	5.4		0.1	mg/L	5.000		108	90-110		
Duplicate (BEE0516-DUP1)		**Source: 23E1348-01**			Prepared & Analyzed: 5/15/2023					
Nitrate Nitrogen as NO3N	0.09		0.1	mg/L		0.09			0.00	10
Matrix Spike (BEE0516-MS1)		**Source: 23E1348-01**			Prepared & Analyzed: 5/15/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000	0.09	96.8	90-110		
Reference (BEE0516-SRM1)					Prepared & Analyzed: 5/15/2023					
Nitrate Nitrogen as NO3N	10.5			mg/L	10.00		105	90-110		
Reference (BEE0516-SRM2)					Prepared & Analyzed: 5/15/2023					
Nitrate Nitrogen as NO3N	10.5			mg/L	10.00		105	90-110		

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Water wells

23E1348

WATER WORK REQUEST

Please be sure to complete all highlighted fields

Purchase Order No

Bill To: 16306 (Acct #) | 50 (Cons #)

Results Need By

Company Name: Petrissans Dairy

Address: 5111 Bear Mtn Blvd

City: Bakersfield **State:** CA **Zip:** 93313

Telephone: 661-333-4148

Email:

COPY TO: gtofmwk@gmail.com

griffing1647@yahoo.com

REQUESTED BY: Sean

PROJECT: ~~RB 5~~ DWS 05/18/23

CROP: irrigation well

DELLAVALLE LABORATORY, INC.

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

www.dellavallelab.com · 559-233-6129 · 800 228-9896 · Fax 559 268-1723

No. Samples: 5 **No of Bottles:** 4

Water Type: ☐ Drinking Water ☐ Wastewater ☒ Ag Water ☐ Groundwater ☐ Monitoring Well

Other:

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

DWW 1

05/15/23 16:24 23E1348

☐ Co. Health Dept

☐ RWQCB ☒ Copy of Chain

☐ State Forms ☒ QA/QC Documents

Sampled By:

JG

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	
1	Well # 5	5-14-23	—	19.6	
2	7	"	—	20.8	
~~3~~	~~9~~	"	—		Did Rec'd 5-15-23
4	10	"	—	19.5	
5	Barn	"	—	19.1	
6					
7					
8					
9					
10					

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		Petrissans Dairy		
Second	Gary Gal	Penniville	5/15/23 8:45am	
Third				
Fourth		DLI	5/15 16:24	

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 *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Sampling hrs

Miles

Consulting

pd 5

Shipping

$ 6.00 In

$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No