

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:** Micheal McRee South

Physical address of dairy:

11304 Ave. 18
Number and StreetChowchilla
CityMadera
County93610
Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 04/01/1940

Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0023-0140-0001-0000

B. OPERATORS

McRee, Michael

Operator name: McRee, Michael

Telephone no.: (559) 665-5466 (559) 871-8000
Landline Cellular

11812 Avenue 18

Mailing Address Number and Street

Chowchilla
CityCA
State93610
Zip Code**This operator is responsible for paying permit fees.****C. OWNERS**

McRee, Michael

Legal owner name: McRee, Michael

Telephone no.: (559) 665-5466 (559) 871-8000
Landline Cellular

11812 Avenue 18

Mailing Address Number and Street

Chowchilla
CityCA
State93610
Zip Code**This owner is responsible for paying permit fees.**

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	512	0	0	0
Number under roof	0	0	0	0	0	0
Maximum number	0	0	648	0	0	0
Average number	0	0	512	0	0	0
Avg live weight (lbs)	0	0	1,000	0		

Predominant milk cow breed: Holstein

Average milk production: 1 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 5,352.22 tons per reporting period

Total nitrogen from manure: 48,588.80 lbs per reporting period

After ammonia losses (30% loss applied): 34,012.16 lbs per reporting period

Total phosphorus from manure: 8,222.72 lbs per reporting period

Total potassium from manure: 1.00 lbs per reporting period

Total salt from manure: 0.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 11,500,000 gallons

Total nitrogen generated: 37,096.46 lbs

Total phosphorus generated: 4,683.91 lbs

Total potassium generated: 47,867.25 lbs

Total salt generated: 355,240.64 lbs

11,500,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 11,500,000 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
CWD Canal	Surface water
DW-25	Ground water
PP-27	Ground water
PP-MS-Barn	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.

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
24	68	68	2	both	0023-0140-0001-0000
25	39	39	2	both	0023-0140-0001-0000
27	62	62	2	both	0023-0140-0009-0000
Totals for areas that were used for application	169	169	6		
Totals for areas that were not used for application					
Land application area totals	169	169	6		

B. CROPS AND HARVESTS

24

Field name: 24

11/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 68 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	438.00 <i>ton</i>	Dry-weight		8.6	14,700.00	1,460.00	18,600.00		8.99

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	720.00
Total actual harvest content	6.44	173.08	17.19	219.01	1,058.52

07/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 68 Plant date: 07/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/06/2023	2,042.00 <i>ton</i>	Dry-weight		65.0	5,800.00	700.00	370.00		2.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	30.03	121.92	14.71	7.78	420.41

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25

Field name: 25

11/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 39 Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	223.00 ton	Dry-weight		8.0	11,800.00	2,030.00	19,900.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	720.00
Total actual harvest content	5.72	124.15	21.36	209.37	1,146.79

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/17/2023	1,170.00 ton	Dry-weight		66.2	5,200.00	1,000.00	4,600.00		2.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	30.00	105.46	20.28	93.29	547.56

27

Field name: 27

11/26/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 62 Plant date: 11/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	447.00 ton	Dry-weight		8.6	14,700.00	1,460.00	18,600.00		8.99

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	720.00
Total actual harvest content	7.21	193.74	19.24	245.13	1,184.82

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27

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 62 Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	2,042.00 <i>ton</i>	Dry-weight		61.9	5,000.00	800.00	4,900.00		2.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	252.00	42.00	184.80	1,120.00
Total actual harvest content	32.94	125.48	20.08	122.97	677.61

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NUTRIENT BUDGET

A. LAND APPLICATIONS

24 - 11/28/2022: Wheat, silage, soft dough

Field name: 24

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

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
Slurry Manure Application	Process wastewater	228.32	12.35	156.89	901.26	544,000.00 <i>gal</i>
Application event totals		228.32	12.35	156.89	901.26	
04/16/2023	Subsurface (irrigation)	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-25	Ground water	7.34	0.00	0.00	355.20	8,640,000.00 <i>gal</i>
Application event totals		7.34	0.00	0.00	355.20	

24 - 07/19/2023: Corn, silage

Field name: 24

Crop: Corn, silage

Plant date: 07/19/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	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
Manure Application		Corral solids	113.32	35.51	245.78	0.00	408.00 <i>ton</i>
Application event totals			113.32	35.51	245.78	0.00	
07/19/2023	Sidedress		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pop-Up Starter		Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer		Liquid commercial fertilizer	25.00	0.00	0.00	0.00	
Application event totals			29.00	0.00	0.00	0.00	

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24 - 07/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/26/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-25	Ground water	28.13	0.00	0.00	1,361.61	33,120,000.00 <i>gal</i>
CWD Canal	Surface water	0.00	0.00	0.00	52.84	33,120,000.00 <i>gal</i>
Application event totals		28.13	0.00	0.00	1,414.45	

25 - 11/24/2022: Wheat, silage, soft dough

Field name: 25

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

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
Slurry Manure Application	Process wastewater	114.16	6.18	78.44	450.63	156,000.00 <i>gal</i>
Application event totals		114.16	6.18	78.44	450.63	
12/29/2022	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
Blended Lg and Fresh Water Application	Process wastewater	39.61	12.16	76.72	431.22	2,160,000.00 <i>gal</i>
Application event totals		39.61	12.16	76.72	431.22	
04/19/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-25	Ground water	6.93	0.00	0.00	335.47	4,680,000.00 <i>gal</i>
Application event totals		6.93	0.00	0.00	335.47	

25 - 06/26/2023: Corn, silage

Field name: 25

Crop: Corn, silage

Plant date: 06/26/2023

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25 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/20/2023	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
Manure Application	Corral solids	113.32	35.51	245.78	0.00	234.00 <i>ton</i>
Application event totals		113.32	35.51	245.78	0.00	
06/26/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer	Liquid commercial fertilizer	25.00	0.00	0.00	0.00	
Application event totals		29.00	0.00	0.00	0.00	
10/01/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	0.00	0.00	0.00	48.07	17,280,000.00 <i>gal</i>
CWD Canal	Surface water	0.00	0.00	0.00	48.07	17,280,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	96.13	

27 - 11/26/2022: Wheat, silage, soft dough

Field name: 27

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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
Blended Lg and Fresh Water Application		Process wastewater	125.59	25.24	251.19	2,093.25	4,320,000.00 <i>gal</i>
Application event totals			125.59	25.24	251.19	2,093.25	

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27 - 11/26/2022: Wheat, silage, soft dough

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
Blended Lg and Fresh Water Application		Process wastewater	125.59	25.24	251.19	2,093.25	4,320,000.00 <i>gal</i>
Application event totals			125.59	25.24	251.19	2,093.25	
04/21/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-25		Ground water	7.04	0.00	0.00	340.88	7,560,000.00 <i>gal</i>
Application event totals			7.04	0.00	0.00	340.88	

27 - 06/28/2023: Corn, silage

Field name: 27

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/20/2023	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
Manure Application	Corral solids	113.32	35.51	245.78	0.00	372.00 <i>ton</i>
Application event totals		113.32	35.51	245.78	0.00	
06/28/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pop-Up Starter	Liquid commercial fertilizer	4.00	0.00	0.00	0.00	
Uan-32 Fertilizer	Liquid commercial fertilizer	25.00	0.00	0.00	0.00	
Application event totals		29.00	0.00	0.00	0.00	

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27 - 06/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/03/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-25	Ground water	28.17	0.00	0.00	1,363.52	30,240,000.00 <i>gal</i>
CWD Canal	Surface water	0.00	0.00	0.00	52.91	30,240,000.00 <i>gal</i>
Application event totals		28.17	0.00	0.00	1,416.43	

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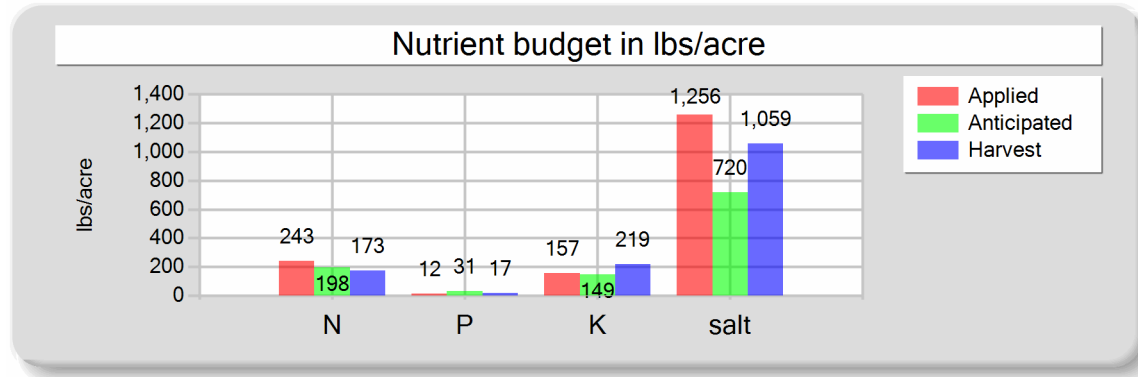
B. NUTRIENT BUDGET

24 - 11/28/2022: Wheat, silage, soft dough

Field name: 24

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	8,640,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	318.18 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.68 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	228.32	12.35	156.89	901.26	Process wastewater applied
Fresh water	7.34	0.00	0.00	355.20	544,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	20.03 acre-inches
Total nutrients applied	242.66	12.35	156.89	1,256.46	0.29 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	720.00	
Actual crop nutrient removal	173.08	17.19	219.01	1,058.52	Total harvests for the crop
Nutrient balance	69.57	-4.84	-62.12	197.94	1 harvests
Applied to removed ratio	1.40	0.72	0.72	1.19	

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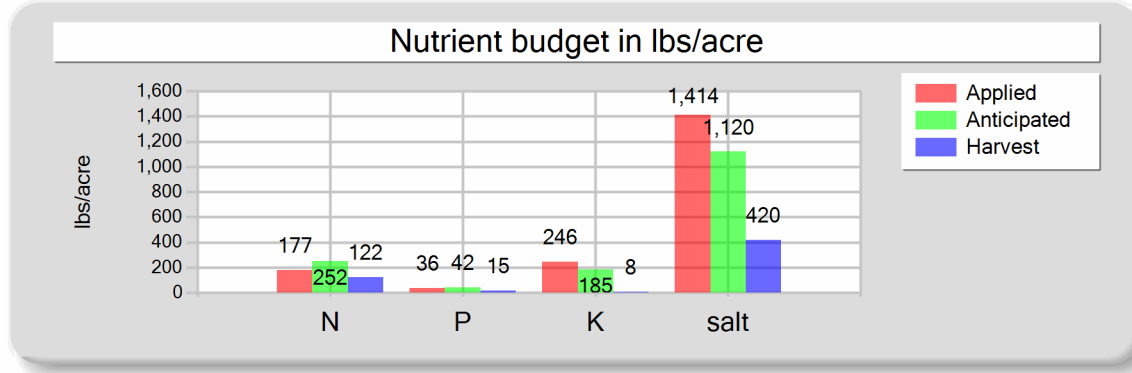
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24 - 07/19/2023: Corn, silage

Field name: 24

Crop: Corn, silage

Plant date: 07/19/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	29.00	0.00	0.00	0.00
Dry manure	113.32	35.51	245.78	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	28.13	0.00	0.00	1,414.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	177.44	35.51	245.78	1,414.45
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	121.92	14.71	7.78	420.41
Nutrient balance	55.52	20.80	238.01	994.04
Applied to removed ratio	1.46	2.41	31.60	3.36

Fresh water applied
66,240,000.00 <i>gallons</i>
2,439.39 <i>acre-inches</i>
35.87 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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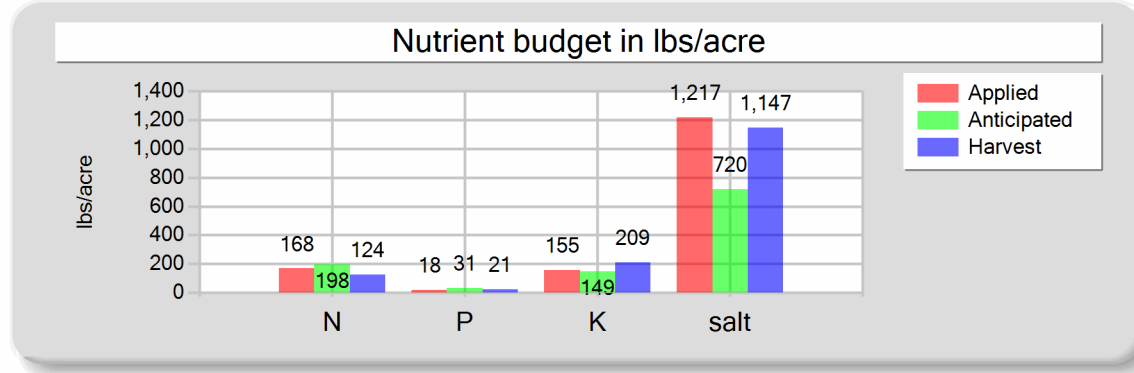
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25 - 11/24/2022: Wheat, silage, soft dough

Field name: 25

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



	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	153.77	18.33	155.17	881.85
Fresh water	6.93	0.00	0.00	335.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	167.70	18.33	155.17	1,217.32
Anticipated crop nutrient removal	198.00	30.60	149.40	720.00
Actual crop nutrient removal	124.15	21.36	209.37	1,146.79
Nutrient balance	43.55	-3.03	-54.20	70.53
Applied to removed ratio	1.35	0.86	0.74	1.06

Fresh water applied
4,680,000.00 <i>gallons</i>
172.35 <i>acre-inches</i>
4.42 <i>inches/acre</i>

Process wastewater applied
2,316,000.00 <i>gallons</i>
85.29 <i>acre-inches</i>
2.19 <i>inches/acre</i>

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

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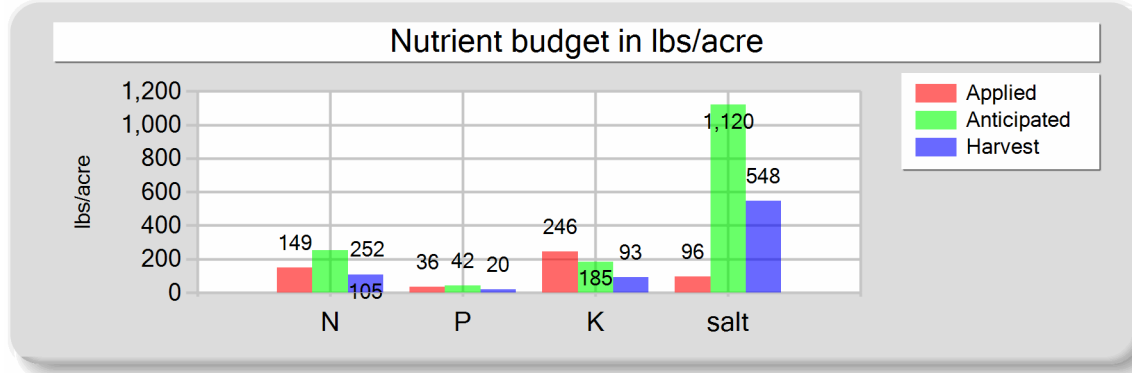
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25 - 06/26/2023: Corn, silage

Field name: 25

Crop: Corn, silage

Plant date: 06/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	34,560,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,272.73 <i>acre-inches</i>
Commercial fertilizer / Other	29.00	0.00	0.00	0.00	32.63 <i>inches/acre</i>
Dry manure	113.32	35.51	245.78	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	96.13	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	149.32	35.51	245.78	96.13	
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00	
Actual crop nutrient removal	105.46	20.28	93.29	547.56	
Nutrient balance	43.86	15.23	152.50	-451.43	
Applied to removed ratio	1.42	1.75	2.63	0.18	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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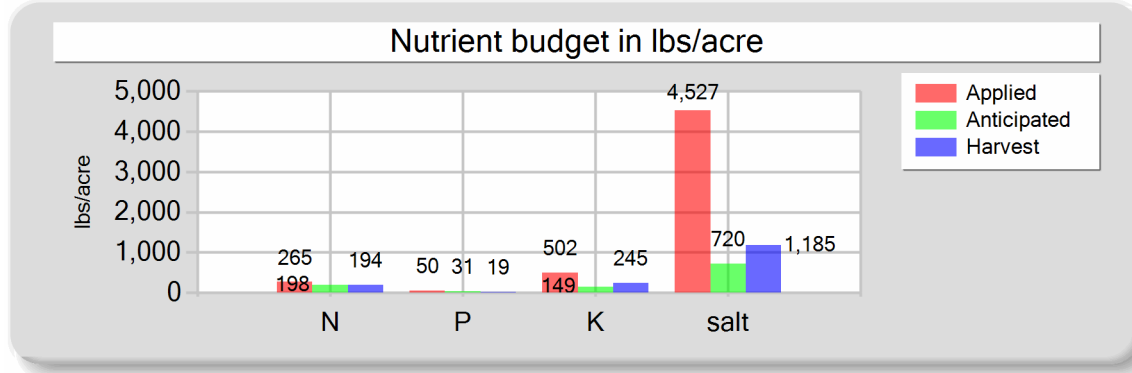
Reporting period 01/01/2023 to 12/31/2023.

27 - 11/26/2022: Wheat, silage, soft dough

Field name: 27

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	7,560,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	278.41 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.49 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	251.19	50.47	502.38	4,186.50	Process wastewater applied
Fresh water	7.04	0.00	0.00	340.88	8,640,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	318.18 <i>acre-inches</i>
Total nutrients applied	265.23	50.47	502.38	4,527.38	5.13 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	720.00	
Actual crop nutrient removal	193.74	19.24	245.13	1,184.82	Total harvests for the crop
Nutrient balance	71.50	31.23	257.24	3,342.56	1 <i>harvests</i>
Applied to removed ratio	1.37	2.62	2.05	3.82	

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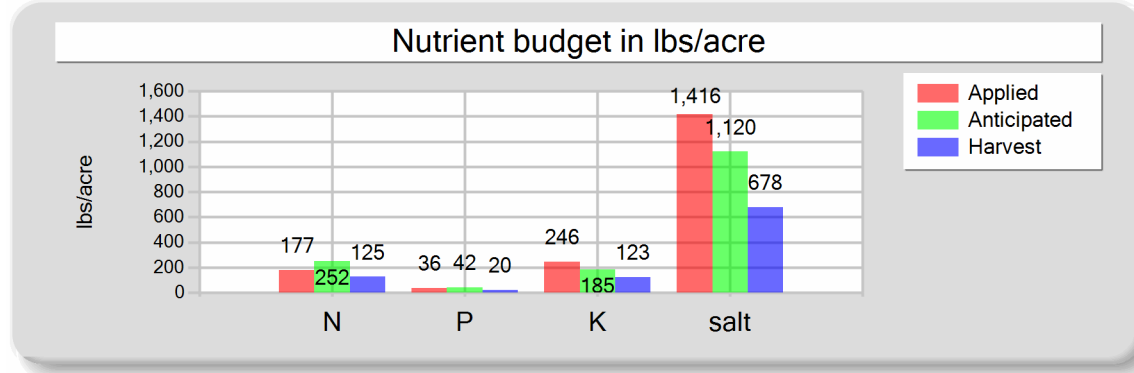
Reporting period 01/01/2023 to 12/31/2023.

27 - 06/28/2023: Corn, silage

Field name: 27

Crop: Corn, silage

Plant date: 06/28/2023



	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	29.00	0.00	0.00	0.00
Dry manure	113.32	35.51	245.78	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	28.17	0.00	0.00	1,416.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	177.48	35.51	245.78	1,416.43
Anticipated crop nutrient removal	252.00	42.00	184.80	1,120.00
Actual crop nutrient removal	125.48	20.08	122.97	677.61
Nutrient balance	52.00	15.43	122.81	738.82
Applied to removed ratio	1.41	1.77	2.00	2.09

Fresh water applied
60,480,000.00 <i>gallons</i>
2,227.27 <i>acre-inches</i>
35.92 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Corral solids - 2022

Sample and source description: Corral solids - 2022

Sample date: 10/25/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 12.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,800.00	1,380.00	30,800.00							52.90
DL	1,000.00	1,000.00	1,000.00							0.10

Corral Solids

Sample and source description: Corral Solids

Sample date: 06/08/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 33.5 %

	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	14,200.00	4,450.00	30,800.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

South Corral solids

Sample and source description: South Corral solids

Sample date: 11/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 25.2 %

	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	14,600.00	9,200.00	71,900.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

B. PROCESS WASTEWATER ANALYSES

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

Lagoon Slurry

Sample and source description: Lagoon Slurry

Sample date: 10/20/2022 Material type: Process wastewater Source of analysis: Other/estimated 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	924.00	168.00	0.00	0.00	12.50	51.60								2,570.00	1,320
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Lagoon Slurry

Sample and source description: Lagoon Slurry

Sample date: 10/20/2022 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	3,420.00	574.00	0.00	0.00	185.00	2,350.00								10,200.00	13,500
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Pond-A-4

Sample and source description: Pond-A-4

Sample date: 11/17/2022 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	85.70	57.70	0.00	0.00	26.30	166.00								1,460.00	933
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Pond-A-1

Sample and source description: Pond-A-1

Sample date: 03/16/2023 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	216.00	95.20	0.00	0.00	43.40	432.00								4,330.00	3,600
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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Pond-A-2

Sample and source description: Pond-A-2

Sample date: 06/08/2023 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	126.00	67.20	0.00	0.00	56.30	903.00								4,200.00	3,720
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Pond-A-3

Sample and source description: Pond-A-3

Sample date: 08/23/2023 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	28.00	8.40	0.00	0.00	1.21	10.60								576.00	300
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Pond-A-4

Sample and source description: Pond-A-4

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	22.40	5.60	0.00	0.00	9.93	78.70								623.00	320
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

C. FRESH WATER ANALYSES

CWD Canal

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

CWD Canal

CWD Canal

Sample description: CWD Canal

Sample date: 08/23/2023 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	0.00								100.00	13
DL	0.50	0.50	0.50								1.00	10

DW-25

Dw-25

Sample description: Dw-25

Sample date: 11/30/2023 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	6.92	0.00	6.92								523.00	335
DL	0.50	0.50	0.50								1.00	10

PP-27

Domestic Well

Sample description: Domestic Well

Sample date: 08/29/2023 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	11.20	0.00	11.20								888.00	568
DL	0.50	0.50	0.50								1.00	10

PP-MS-Barn

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

PP-MS-Barn

Domestic Well

Sample description: Domestic Well

Sample date: 08/29/2023 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	12.90	0.00	12.90								943.00	604
DL	0.50	0.50	0.50								1.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

24 - 11/28/2022: Wheat, silage, soft dough

Wheat Hay

Sample and source description: Wheat Hay

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 8.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	1,460.00	18,600.00		8.99
DL	1,000.00	1,000.00	1,000.00		0.10

24 - 07/19/2023: Corn, silage

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

24 - 07/19/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 11/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	700.00	370.00		2.00
DL	1,000.00	500.00	300.00		0.10

25 - 11/24/2022: Wheat, silage, soft dough

Wheat Hay

Sample and source description: Wheat Hay

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 8.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	2,030.00	19,900.00		10.90
DL	1,000.00	1,000.00	1,000.00		0.10

25 - 06/26/2023: Corn, silage

Corn Silages

Sample and source description: Corn Silages

Sample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	1,000.00	4,600.00		2.70
DL	1,000.00	1,000.00	1,000.00		0.10

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

27 - 11/26/2022: Wheat, silage, soft dough

Wheat HaySample and source description: Wheat HaySample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 8.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	1,460.00	18,600.00		8.99
DL	1,000.00	1,000.00	1,000.00		0.10

27 - 06/28/2023: Corn, silage

Corn SilagesSample and source description: Corn SilagesSample date: 10/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 61.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	800.00	4,900.00		2.70
DL	1,000.00	500.00	1,000.00		0.10

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

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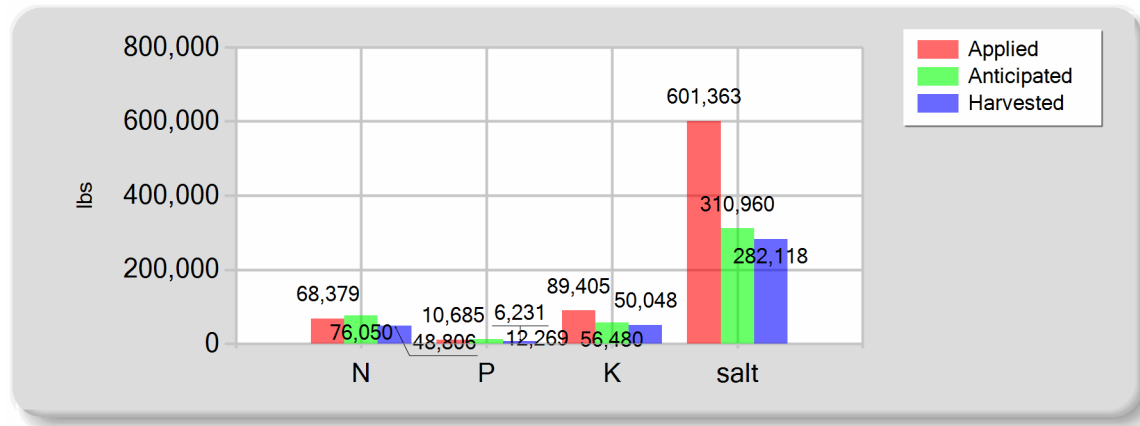
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

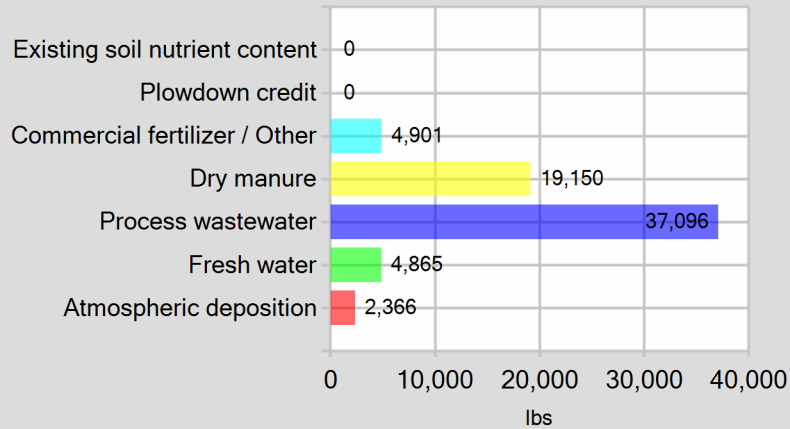
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	4,901.00	0.00	0.00	0.00
Dry manure	19,150.40	6,001.36	41,537.50	0.00
Process wastewater	37,096.46	4,683.91	47,867.25	355,240.64
Fresh water	4,864.64	0.00	0.00	246,122.09
Atmospheric deposition	2,366.00	0.00	0.00	0.00
Total nutrients applied	68,378.51	10,685.27	89,404.75	601,362.73
Anticipated crop nutrient removal	76,050.00	12,269.40	56,479.80	310,960.00
Actual crop nutrient removal	48,806.47	6,231.21	50,047.61	282,118.25
Nutrient balance	19,572.04	4,454.06	39,357.14	319,244.48
Applied to removed ratio	1.40	1.71	1.79	2.13

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

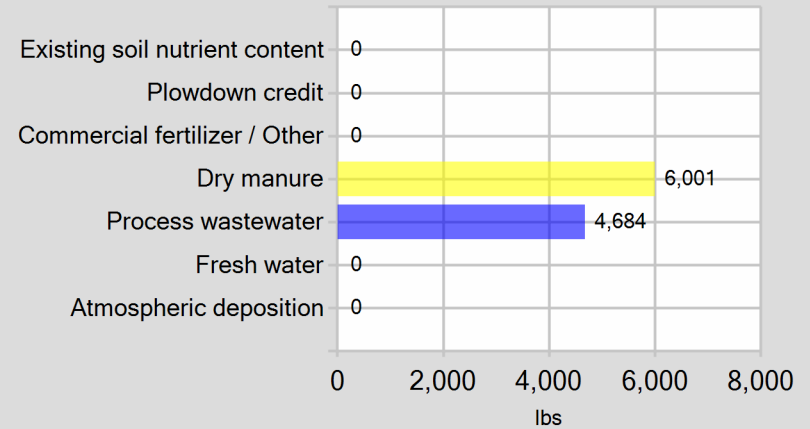


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

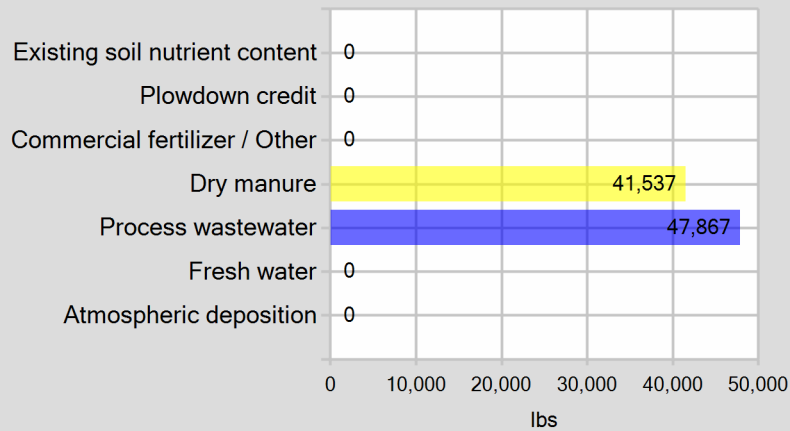
Pounds of nitrogen applied



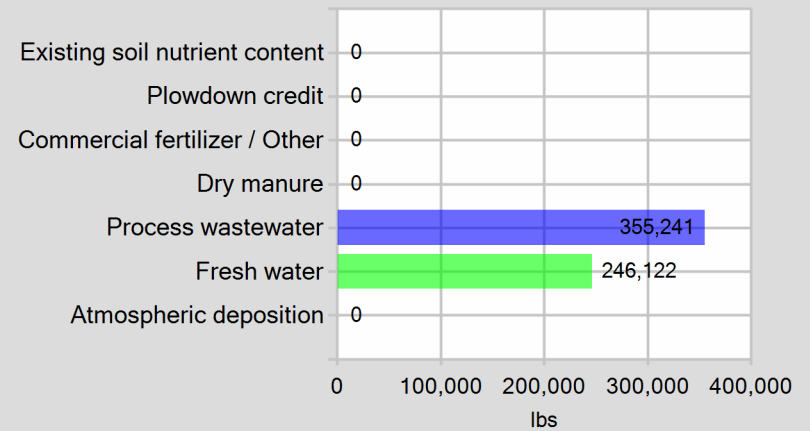
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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ADDITIONAL NOTES

A. NOTES

No notes entered for this annual report.

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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.

Michael McRee

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Michael McRee	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
Jul 1, 2024	
DATE	DATE

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380
Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

40 N. East Street, Woodland, CA 95776
Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/23/23 2:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/25/23

Irrigation/ Ground Water (H1)
SOURCE: Canal Water

NOTES: Temperature was above qualifying at 24.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
C.W.D. Canal	T3235036D	Electrical Conductivity (EC)	EPA 120.1 and	< 0.100	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	12.9	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	101	95.1 (T3235024B)	95.9 (T3235024B)	0.815
Electrical Conductivity (EC)	97.1			4.81
Nitrate Nitrogen (NO3-N)	104			7.24

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Denele Analytical, Inc.

865 South Kilroy Avenue Turlock, CA 95380
Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

40 N. East Street, Woodland, CA 95776
Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower

Consultant:

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-MS Barn	T3241015E	Electrical Conductivity (EC)	EPA 120.1 and	0.943	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	12.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	604	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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**DENELE ANALYTICAL, INC.**

865 S. KILROY

TURLOCK, CA 95380

PH# 209-634-9055 FAX# 209-634-9057

Client: McREE TRIANGLE M DAIRYMailing address: 11812 Avenue 18, Chowchilla CA 93610

(not facility address)

Phone#: 559-871-8000**DAIRY COMPLIANCE**

Authorized Copy Released To:

hlcdan@yahoo.comSampled By: Daniel Roos

Project ID: _____

ANALYSIS TO BE COMPLETED:**IRRIGATION/GROUND WATER**

H1 EC*, NO3-N, NH4-N*

H6 EC, TN, TDS

H7 Combination of H1 & H6

H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb

Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS

H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS

H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl

H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

H2 EC*, NO3-N, TP, NH4-N*, TDS

* Required Field Measurement

____ (Check here if performed)

DISCHARGE WATER

E1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,

BOD 5, TSS, Total & Fecal Coliforms

E2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,

Total & Fecal Coliforms

E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms

E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture

M3 TN TP, K, % Moisture

M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash

M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received

F18+ % Moisture, Ash, TN, P, K, DM and as received

(Package also includes NIR DCAD)

F19+ % Moisture, TN (Package includes complete plant tissue analysis)

SOIL

K3 Soluble Phosphorus

K4 1ft NO3, Organic Matter

K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)

K6 0-1ft EC, NO3, Soluble P, K, Organic Matter

K7 Combination of K3 & K4

K8 Combination of K3 & K5

H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	8-29-23	0915	DW-33N		18.0'		X			
2	↓	0920	DW-32		17.6'		X			
3	↓	0950	H-16		18.4'		X			
4	8-29-23	1000	H-14		18.4'		X			
5	↓	↓	PP-m5 Barn		18.2'		X			
6	↓	↓	PP-23 Hoose		18.2'		X			
7										
8										
9										
10										

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)	
1st		HeartLand Consulting		8-29-23 1330	Logged In By:	LABORATORY NUMBER
2nd		DENELE ANALYTICAL, INC.	8-29-23 1:30			T3241015

Required to be submitted to any agency? (YES / NO)

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Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.8c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-27	T3241014E	Electrical Conductivity (EC)	EPA 120.1 and	0.888	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	11.2	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	568	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower

Consultant:

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-38 N	T3241014F	Electrical Conductivity (EC)	EPA 120.1 and	0.748	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	7.17	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	479	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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2023 AR McREE SOUTH DAIRY

Final Audit Report

2024-07-02

Created:	2024-06-29
By:	Daniel Roos (hlcdan@yahoo.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAl1Xi8HWu6OJIX9o-qjlbURGACBhbpJ2

"2023 AR McREE SOUTH DAIRY" History

-  Document created by Daniel Roos (hlcdan@yahoo.com)
2024-06-29 - 9:15:05 PM GMT- IP address: 73.2.10.91
-  Document emailed to Michael McRee (dairyfarmer_007@yahoo.com) for signature
2024-06-29 - 9:15:51 PM GMT
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2024-06-30 - 3:22:17 AM GMT- IP address: 172.225.89.40
-  Document e-signed by Michael McRee (dairyfarmer_007@yahoo.com)
Signature Date: 2024-07-02 - 0:48:02 AM GMT - Time Source: server- IP address: 67.204.62.210
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2024-07-02 - 0:48:02 AM GMT