

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: Vitoria Farms

Physical address of dairy:

12429 ave 24

Number and Street

Chowchilla

City

Madera

County

93610

Zip Code

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

Date facility was originally placed in operation: 06/10/2001

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

County Assessor Parcel Number(s) for dairy facility:

X250-X140-X060-XXXX

B. OPERATORS

Vitoria, Mark

Operator name: Vitoria, Mark

Telephone no.:

(559) 647-9054

Landline

Cellular

12429 Avenue 24

Mailing Address Number and Street

Chowchilla

City

CA

State

93610

Zip Code

Vitoria, Tony

Operator name: Vitoria, Tony

Telephone no.:

(559) 665-7576

Landline

Cellular

12429 Avenue 24

Mailing Address Number and Street

Chowchilla

City

CA

State

93610

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

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Vitoria, Tony

Legal owner name: Vitoria, Tony	Telephone no.: (559) 665-7576
	Landline
12429 Avenue 24	Cellular
Mailing Address Number and Street	Chowchilla
	CA
	City
	State
	Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	40	75	100	80	35	0
Number under roof	385	0	0	0	0	0
Maximum number	425	75	100	80	35	0
Average number	425	75	100	80	35	0
Avg live weight (lbs)	1,300	1,400	700	500		

Predominant milk cow breed: Holstein

Average milk production: 66 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 13,554.94 tons per reporting period

Total nitrogen from manure: 172,485.96 lbs per reporting period

After ammonia losses (30% loss applied): 120,740.17 lbs per reporting period

Total phosphorus from manure: 28,474.96 lbs per reporting period

Total potassium from manure: 80,274.52 lbs per reporting period

Total salt from manure: 217,357.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 11,610,000 gallons

Total nitrogen generated: 57,489.37 lbs

Total phosphorus generated: 7,275.20 lbs

Total potassium generated: 60,749.43 lbs

Total salt generated: 567,798.81 lbs

$$\begin{array}{r}
 11,610,000 \text{ gallons applied} \\
 + 0 \text{ gallons exported} \\
 - 0 \text{ gallons imported} \\
 = 11,610,000 \text{ gallons generated}
 \end{array}$$

D. FRESH WATER SOURCES

Source Description	Type
CWD canal	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

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F. NUTRIENT IMPORTS*No dry manure nutrient imports entered.**No process wastewater nutrient imports entered.**No commercial or other nutrient imports entered.***G. NUTRIENT EXPORTS**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	Separator solids	1,710.00 <i>ton</i>	Dry-weight	24.9		17,000.00	8,340.00	10,900.00		0.00
10/02/2023	Separator solids	684.00 <i>ton</i>	Dry-weight	24.9		17,000.00	8,340.00	10,900.00		0.00
10/26/2023	Corral solids	96.50 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00
10/26/2023	Corral solids	184.90 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00
10/26/2023	Corral solids	164.80 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00
10/26/2023	Corral solids	321.60 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	77,004.81	35,417.16	57,705.59	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	77,004.81	35,417.16	57,705.59	0.00

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
field A	55	55	2	both	X250-X140-X006-XXXX
field B	63	63	2	both	X250-X140-X006-XXXX
field C	70	70	2	both	X250-X140-X006-XXXX
Totals for areas that were used for application	188	188	6		
Totals for areas that were not used for application					
Land application area totals	188	188	6		

B. CROPS AND HARVESTS

field A																				
Field name: field A																				
11/01/2022: Wheat, silage, soft dough																				
Crop: Wheat, silage, soft dough Acres planted: 55 Plant date: 11/01/2022																				
<table border="1"> <thead> <tr> <th>Harvest date</th><th>Yield</th><th>Reporting basis</th><th>Density (lbs/cu ft)</th><th>Moisture (%)</th><th>N (mg/kg)</th><th>P (mg/kg)</th><th>K (mg/kg)</th><th>Salt (mg/kg)</th><th>TFS (%)</th></tr> </thead> <tbody> <tr> <td>05/09/2023</td><td>825.00 ton</td><td>Dry-weight</td><td></td><td>50.9</td><td>14,800.00</td><td>2,665.00</td><td>15,000.00</td><td></td><td>10.80</td></tr> </tbody> </table>	Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	05/09/2023	825.00 ton	Dry-weight		50.9	14,800.00	2,665.00	15,000.00		10.80
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)											
05/09/2023	825.00 ton	Dry-weight		50.9	14,800.00	2,665.00	15,000.00		10.80											
<table border="1"> <thead> <tr> <th></th><th>Yield (tons/acre)</th><th>Total N (lbs/acre)</th><th>Total P (lbs/acre)</th><th>Total K (lbs/acre)</th><th>Salt (lbs/acre)</th></tr> </thead> <tbody> <tr> <td>Anticipated harvest content</td><td>18.00</td><td>198.00</td><td>30.60</td><td>149.40</td><td>0.00</td></tr> <tr> <td>Total actual harvest content</td><td>15.00</td><td>218.00</td><td>39.26</td><td>220.95</td><td>1,590.84</td></tr> </tbody> </table>		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	0.00	Total actual harvest content	15.00	218.00	39.26	220.95	1,590.84		
	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	0.00															
Total actual harvest content	15.00	218.00	39.26	220.95	1,590.84															
06/07/2023: Corn, silage																				
Crop: Corn, silage Acres planted: 55 Plant date: 06/07/2023																				
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Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)											
09/25/2023	1,320.00 ton	Dry-weight		65.4	12,700.00	1,850.00	18,800.00		7.35											
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	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)															
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00															
Total actual harvest content	24.00	210.92	30.72	312.23	1,220.69															

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field BField name: field B

11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 63 Plant date: 11/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	945.00 ton	Dry-weight		53.3	14,750.00	2,275.00	13,250.00		10.51

	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	0.00
Total actual harvest content	15.00	206.65	31.87	185.63	1,472.45

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 63 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	1,512.00 ton	Dry-weight		65.6	12,800.00	1,640.00	20,400.00		8.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	24.00	211.35	27.08	336.84	1,411.78

field CField name: field C

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 70 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,050.00 ton	Dry-weight		64.0	11,675.00	2,245.00	17,650.00		9.56

	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	0.00
Total actual harvest content	15.00	126.09	24.25	190.62	1,032.48

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field C

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 70 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,918.00 ton	Dry-weight		64.1	11,700.00	1,925.00	18,400.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.40	230.18	37.87	361.99	1,416.47

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

field A - 11/01/2022: Wheat, silage, soft dough

Field name: field A

Crop: Wheat, silage, soft dough Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	83.57	14.17	108.15	501.43	540,000.00 gal
Application event totals		83.57	14.17	108.15	501.43	
11/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	64.49	5.22	92.33	610.85	660,000.00 gal
CWD canal	Surface water	4.59	0.00	0.00	0.00	5,376,492.00 gal
Application event totals		69.08	5.22	92.33	610.85	

field A - 06/07/2023: Corn, silage

Field name: field A

Crop: Corn, silage Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/11/2023	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
dry manure application	Separator solids	49.30	14.04	14.95	461.34	275.00 ton
Application event totals		49.30	14.04	14.95	461.34	

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field A - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	57.90	7.57	68.75	397.65	480,000.00 gal
CWD canal	Surface water	7.40	0.00	0.00	0.00	8,662,126.00 gal
Application event totals		65.30	7.57	68.75	397.65	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	8.29	0.00	0.00	0.00	9,707,555.00 gal
Application event totals		8.29	0.00	0.00	0.00	
07/22/2023	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
wastewater application	Process wastewater	57.76	6.95	37.69	786.55	900,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	5,973,880.00 gal
Application event totals		62.87	6.95	37.69	786.55	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	46.21	5.56	30.15	629.24	720,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	5,973,880.00 gal
Application event totals		51.31	5.56	30.15	629.24	
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
CWD canal	Surface water	5.10	0.00	0.00	0.00	5,973,880.00 gal
Application event totals		5.10	0.00	0.00	0.00	

field B - 11/02/2022: Wheat, silage, soft dough

Field name: field B

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

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field B - 11/02/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	85.12	14.44	110.15	510.71	630,000.00 gal
Application event totals		85.12	14.44	110.15	510.71	
10/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	66.54	5.38	95.26	630.25	780,000.00 gal
CWD canal	Surface water	4.47	0.00	0.00	0.00	5,987,457.00 gal
Application event totals		71.00	5.38	95.26	630.25	

field B - 06/02/2023: Corn, silage

Field name: field B

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/12/2023	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
dry manure application	Separator solids	39.44	11.23	11.96	369.07	252.00 ton
Application event totals		39.44	11.23	11.96	369.07	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	50.55	6.61	60.02	347.15	480,000.00 gal
CWD canal	Surface water	7.02	0.00	0.00	0.00	9,408,861.00 gal
Application event totals		57.56	6.61	60.02	347.15	

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field B - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	7.91	0.00	0.00	0.00	10,606,352.00 gal
Application event totals		7.91	0.00	0.00	0.00	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	50.43	6.07	32.90	686.67	900,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	6,842,808.00 gal
Application event totals		55.53	6.07	32.90	686.67	
08/02/2023	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
wastewater application	Process wastewater	40.34	4.85	26.32	549.34	720,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	6,842,808.00 gal
Application event totals		45.45	4.85	26.32	549.34	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	5.10	0.00	0.00	0.00	6,842,808.00 gal
Application event totals		5.10	0.00	0.00	0.00	

field C - 11/22/2022: Wheat, silage, soft dough

Field name: field C

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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field C - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	83.90	14.23	108.58	503.42	690,000.00 gal
Application event totals		83.90	14.23	108.58	503.42	
11/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	66.79	5.40	95.63	632.67	870,000.00 gal
CWD canal	Surface water	4.34	0.00	0.00	0.00	6,462,652.00 gal
Application event totals		71.13	5.40	95.63	632.67	

field C - 06/10/2023: Corn, silage

Field name: field C

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	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
dry manure application	Corral solids	112.35	38.11	83.14	0.00	210.00 ton
Application event totals		112.35	38.11	83.14	0.00	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	7.78	0.00	0.00	0.00	11,594,758.00 gal
Application event totals		7.78	0.00	0.00	0.00	

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field C - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/11/2023	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
wastewater application	Process wastewater	36.31	4.37	23.69	494.41	720,000.00 gal
CWD canal	Surface water	7.14	0.00	0.00	0.00	10,644,368.00 gal
Application event totals		43.45	4.37	23.69	494.41	
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
wastewater application	Process wastewater	30.26	3.64	19.74	412.00	600,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	7,603,120.00 gal
Application event totals		35.36	3.64	19.74	412.00	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	48.41	5.83	31.59	659.21	960,000.00 gal
CWD canal	Surface water	4.47	0.00	0.00	0.00	6,652,730.00 gal
Application event totals		52.88	5.83	31.59	659.21	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	48.41	5.83	31.59	659.21	960,000.00 gal
CWD canal	Surface water	3.83	0.00	0.00	0.00	5,702,340.00 gal
Application event totals		52.24	5.83	31.59	659.21	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	3.83	0.00	0.00	0.00	5,702,340.00 gal
Application event totals		3.83	0.00	0.00	0.00	

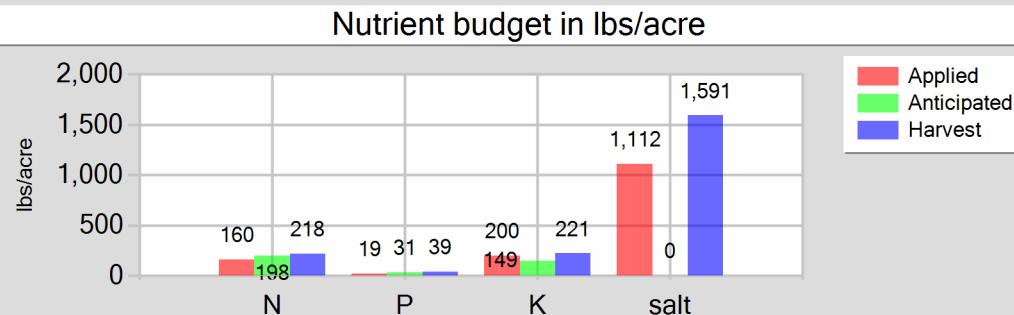
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B. NUTRIENT BUDGET

field A - 11/01/2022: Wheat, silage, soft dough

Field name: field A Crop: Wheat, silage, soft dough Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	148.06	19.39	200.48	1,112.28
Fresh water	4.59	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.65	19.39	200.48	1,112.28
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	218.00	39.26	220.95	1,590.84
Nutrient balance	-58.35	-19.86	-20.47	-478.56
Applied to removed ratio	0.73	0.49	0.91	0.70

Fresh water applied

5,376,492.00 gallons
198.00 acre-inches
3.60 inches/acre

Process wastewater applied

1,200,000.00 gallons
44.19 acre-inches
0.80 inches/acre

Total harvests for the crop

1 harvests

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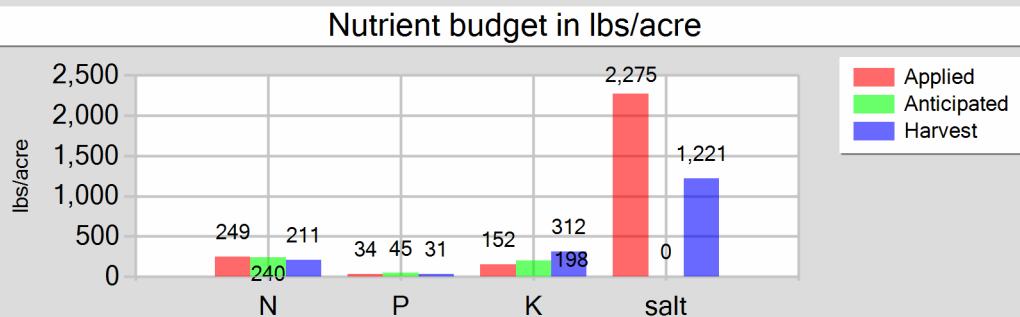
Reporting period 01/01/2023 to 12/31/2023.

field A - 06/07/2023: Corn, silage

Field name: field A

Crop: Corn, silage

Plant date: 06/07/2023



	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	49.30	14.04	14.95	461.34
Process wastewater	161.87	20.09	136.59	1,813.44
Fresh water	31.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	249.17	34.12	151.54	2,274.78
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	210.92	30.72	312.23	1,220.69
Nutrient balance	38.25	3.40	-160.69	1,054.10
Applied to removed ratio	1.18	1.11	0.49	1.86

Fresh water applied
36,291,321.00 gallons
1,336.49 acre-inches
24.30 inches/acre

Process wastewater applied
2,100,000.00 gallons
77.34 acre-inches
1.41 inches/acre

Total harvests for the crop
1 harvests

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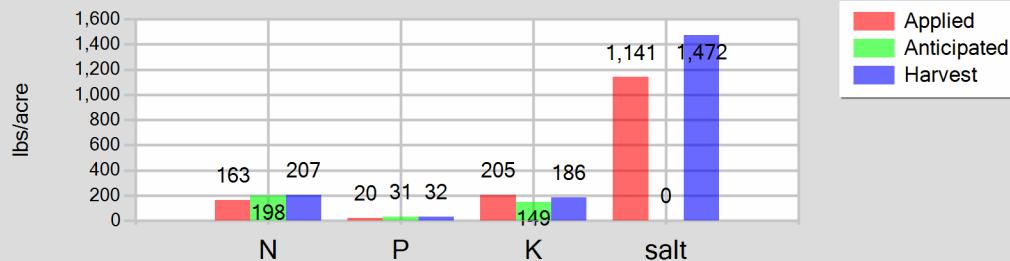
field B - 11/02/2022: Wheat, silage, soft dough

Field name: field B

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	151.66	19.82	205.41	1,140.96
Fresh water	4.47	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	163.12	19.82	205.41	1,140.96
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	206.65	31.87	185.63	1,472.45
Nutrient balance	-43.53	-12.05	19.78	-331.49
Applied to removed ratio	0.79	0.62	1.11	0.77

Fresh water applied

5,987,457.00 gallons
220.50 acre-inches
3.50 inches/acre

Process wastewater applied

1,410,000.00 gallons
51.93 acre-inches
0.82 inches/acre

Total harvests for the crop

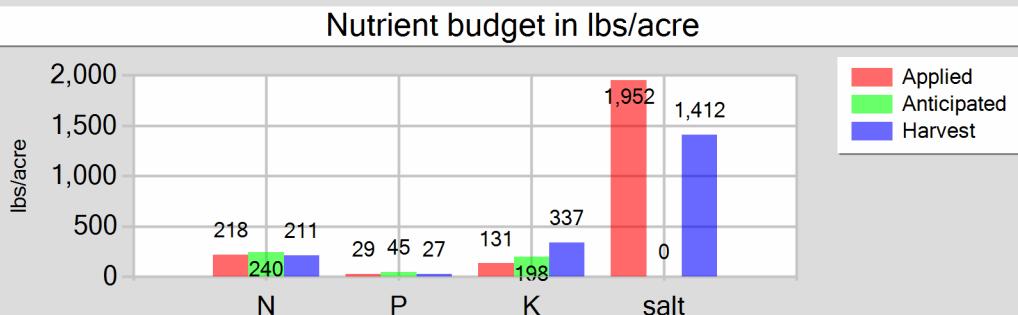
1 harvests

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field B - 06/02/2023: Corn, silage

Field name: field B Crop: Corn, silage Plant date: 06/02/2023



	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	39.44	11.23	11.96	369.07
Process wastewater	141.32	17.53	119.25	1,583.17
Fresh water	30.24	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	217.99	28.77	131.21	1,952.24
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	211.35	27.08	336.84	1,411.78
Nutrient balance	6.64	1.69	-205.64	540.46
Applied to removed ratio	1.03	1.06	0.39	1.38

Fresh water applied
40,543,637.00 gallons
1,493.08 acre-inches
23.70 inches/acre

Process wastewater applied
2,100,000.00 gallons
77.34 acre-inches
1.23 inches/acre

Total harvests for the crop
1 harvests

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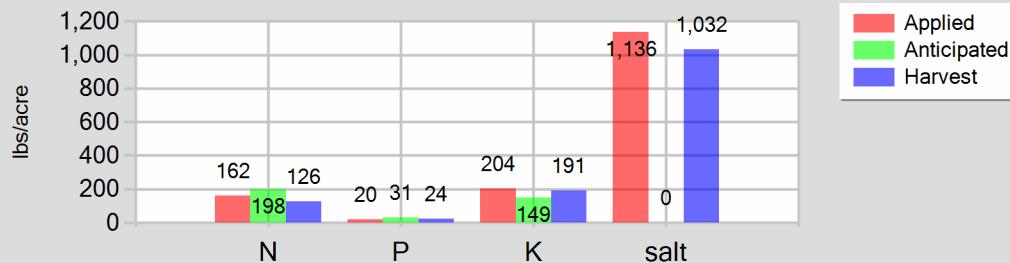
field C - 11/22/2022: Wheat, silage, soft dough

Field name: field C

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	150.70	19.63	204.21	1,136.09
Fresh water	4.34	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	162.03	19.63	204.21	1,136.09
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	126.09	24.25	190.62	1,032.48
Nutrient balance	35.94	-4.61	13.59	103.61
Applied to removed ratio	1.29	0.81	1.07	1.10

Fresh water applied

6,462,652.00 gallons
238.00 acre-inches
3.40 inches/acre

Process wastewater applied

1,560,000.00 gallons
57.45 acre-inches
0.82 inches/acre

Total harvests for the crop

1 harvests

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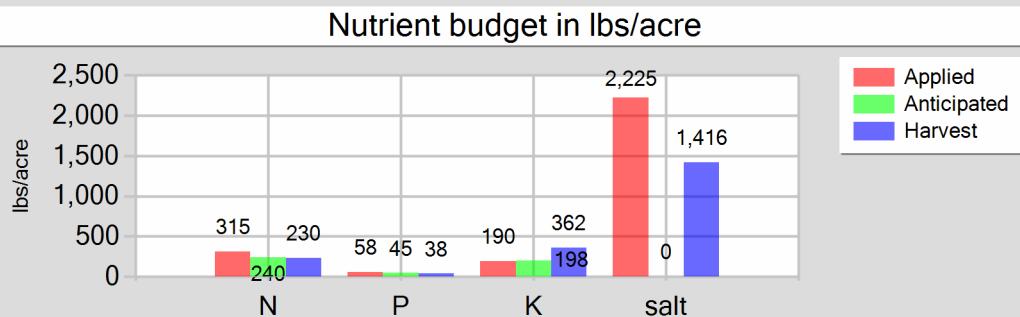
Reporting period 01/01/2023 to 12/31/2023.

field C - 06/10/2023: Corn, silage

Field name: field C

Crop: Corn, silage

Plant date: 06/10/2023



	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	112.35	38.11	83.14	0.00
Process wastewater	163.39	19.66	106.61	2,224.82
Fresh water	32.15	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	314.88	57.77	189.75	2,224.82
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	230.18	37.87	361.99	1,416.47
Nutrient balance	84.71	19.90	-172.24	808.35
Applied to removed ratio	1.37	1.53	0.52	1.57

Fresh water applied

47,899,656.00 gallons
1,763.98 acre-inches
25.20 inches/acre

Process wastewater applied

3,240,000.00 gallons
119.32 acre-inches
1.70 inches/acre

Total harvests for the crop

1 harvests

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NUTRIENT ANALYSES**A. MANURE ANALYSES**

t3130041a

Sample and source description: t3130041a

Sample date: 05/10/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 80.2 %

	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	24,900.00	7,090.00	7,550.00	179,000.00	5,720.00	1,980.00	5,100.00	1,130.00		23.30
DL	100.00	10.00	10.00	10.00	10.00	10.00	100.00	100.00		0.10

t3158060a

Sample and source description: t3158060a

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

Moisture: 25.1 %

	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	25,000.00	8,480.00	18,500.00							0.00
DL	100.00	10.00	10.00							0.10

t3282020a

Sample and source description: t3282020a

Sample date: 10/09/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 24.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	8,340.00	10,900.00							0.00
DL	100.00	10.00	10.00							0.10

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t3317018a

Sample and source description: t3317018a

Sample date: 11/13/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 57.1 %

	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	24,100.00	8,240.00	28,100.00							0.00
DL	100.00	10.00	10.00							0.01

B. PROCESS WASTEWATER ANALYSES

t3039005a

Sample and source description: t3039005a

Sample date: 02/08/2023 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	1,020.00	451.00	0.00	0.00	173.00	1,320.00								8,880.00	6,120
DL	0.50	0.50	0.50	0.50	0.50	0.50								0.10	10

t3130040a

Sample and source description: t3130040a

Sample date: 05/10/2023 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	795.00	434.00	0.00	0.00	104.00	944.00								8,150.00	5,460
DL	0.50	0.50	0.50	0.50	0.50	0.50								0.10	10

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t3254025a

Sample and source description: t3254025a

Sample date: 09/11/2023 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	423.00	302.00	0.00	0.00	50.90	276.00	59.10	69.70	112.00	2,680.00	0.00	0.00	246.00	5,840.00	5,760
DL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.60	1.00	0.10	10

t3317022a

Sample and source description: t3317022a

Sample date: 11/13/2023 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	644.00	437.00	0.00	0.00	52.10	922.00								7,000.00	6,100
DL	0.50	0.50	0.50	0.50	0.20	0.50								0.10	10

C. FRESH WATER ANALYSES

CWD canal

t3201007a

Sample description: t3201007a

Sample date: 07/20/2023 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	5.63	0.00	5.63								0.00	0
DL	0.50	0.50	0.50								0.20	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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field A - 11/01/2022: Wheat, silage, soft dough

t3130043b, t3130043a

Sample and source description: t3130043b, t3130043a

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 50.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,800.00	2,665.00	15,000.00		10.80
DL	100.00	10.00	10.00		0.10

field A - 06/07/2023: Corn, silage

t3282022a, t3282022b

Sample and source description: t3282022a, t3282022b

Sample date: 10/09/2023 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	12,700.00	1,850.00	18,800.00		7.35
DL	100.00	10.00	10.00		0.10

field B - 11/02/2022: Wheat, silage, soft dough

t3130043c,t3130043d

Sample and source description: t3130043c,t3130043d

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 53.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,750.00	2,275.00	13,250.00		10.51
DL	100.00	10.00	10.00		0.10

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field B - 06/02/2023: Corn, silage

t3282022c, t3282022d

Sample and source description: t3282022c, t3282022d

Sample date: 10/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	1,640.00	20,400.00		8.55
DL	100.00	10.00	10.00		0.10

field C - 11/22/2022: Wheat, silage, soft dough

t3158061a, t3158061b

Sample and source description: t3158061a, t3158061b

Sample date: 06/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,675.00	2,245.00	17,650.00		9.56
DL	100.00	10.00	10.00		0.10

field C - 06/10/2023: Corn, silage

t3282022e, t3282022f

Sample and source description: t3282022e, t3282022f

Sample date: 10/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	1,925.00	18,400.00		7.20
DL	100.00	10.00	10.00		0.10

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F. SUBSURFACE (TILE) DRAINAGE ANALYSES

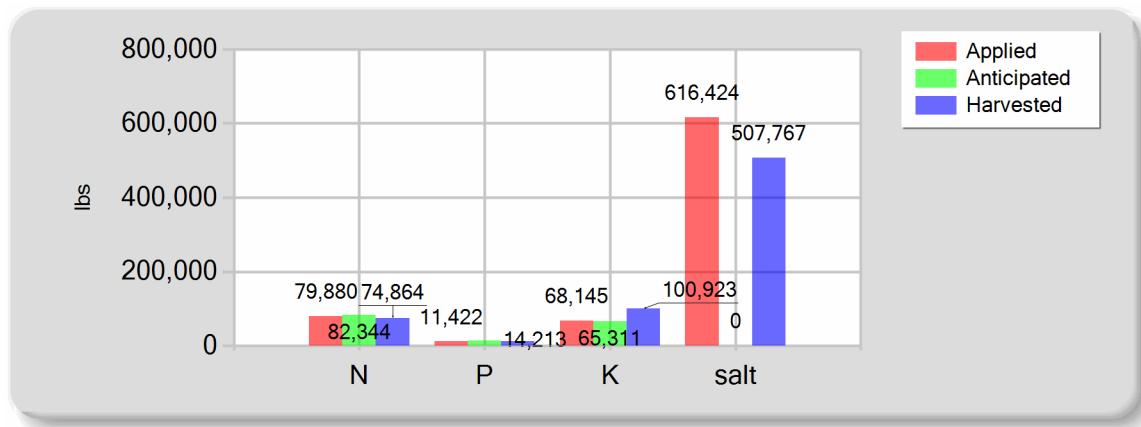
No subsurface (tile) drainage analyses entered.

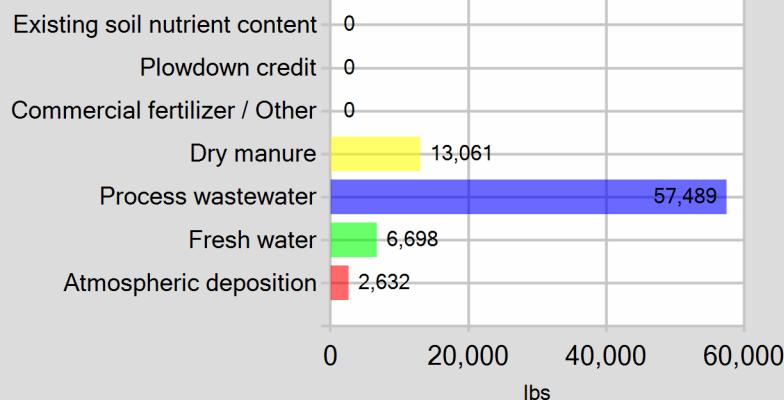
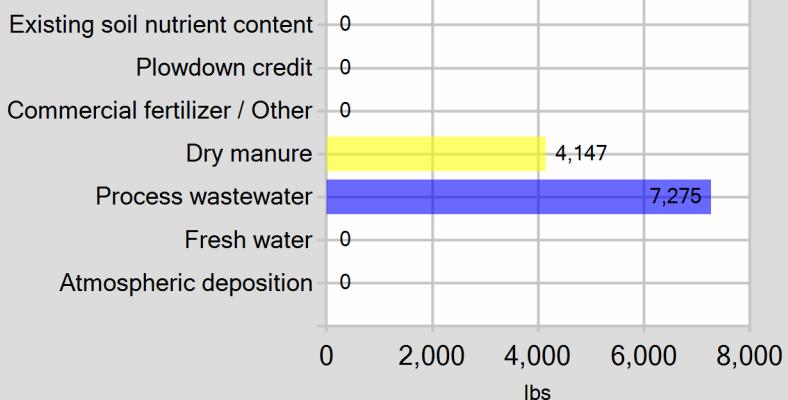
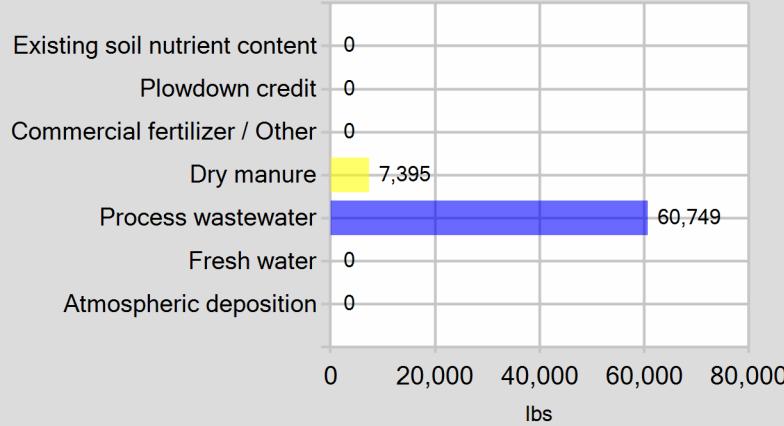
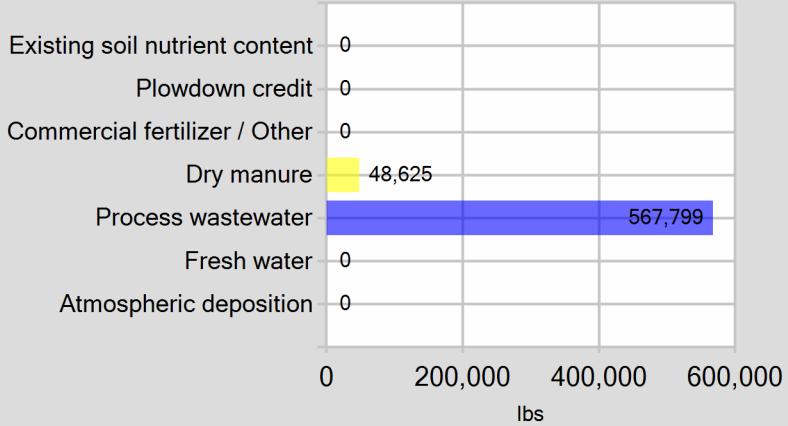
Annual Report - General Order No. R5-2007-0035

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	13,060.93	4,147.26	7,395.35	48,625.24
Process wastewater	57,489.37	7,275.20	60,749.43	567,798.81
Fresh water	6,697.86	0.00	0.00	0.00
Atmospheric deposition	2,632.00	0.00	0.00	0.00
Total nutrients applied	79,880.16	11,422.46	68,144.78	616,424.04
Anticipated crop nutrient removal	82,344.00	14,212.80	65,311.20	0.00
Actual crop nutrient removal	74,863.63	11,911.10	100,923.47	507,766.87
Nutrient balance	5,016.54	-488.64	-32,778.69	108,657.17
Applied to removed ratio	1.07	0.96	0.68	1.21

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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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

Ag Well 2 is still dry.

Shop well is still dry.

All fields exceed 40 acres. Two samples taken of each crop and samples averaged for submittal purposes.

Deep Wells were not used in 2023. Producer did not have the finances to have pumps turned on for electrical service for sampling purposes only.

Fields A & B Wheat Silage were low in moisture. This may have skewed the N extraction ratio causing a negative nutrient value.

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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

Tony Vitoria

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

Mark Vitoria

PRINT OR TYPE NAME

DATE

DATE

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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.

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DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: Vitoria Farms

Physical address of dairy:

12429 ave 24

Number and Street

Chowchilla

City

Madera

County

93610

Zip Code

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

Date facility was originally placed in operation: 06/10/2001

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

County Assessor Parcel Number(s) for dairy facility:

X250-X140-X060-XXXX

B. OPERATORS

Vitoria, Mark

Operator name: Vitoria, Mark

Telephone no.:

(559) 647-9054

Landline

Cellular

12429 Avenue 24

Mailing Address Number and Street

Chowchilla

City

CA

State

93610

Zip Code

Vitoria, Tony

Operator name: Vitoria, Tony

Telephone no.:

(559) 665-7576

Landline

Cellular

12429 Avenue 24

Mailing Address Number and Street

Chowchilla

City

CA

State

93610

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

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Vitoria, Tony

Legal owner name: Vitoria, Tony	Telephone no.: (559) 665-7576
	Landline
12429 Avenue 24	Cellular
Mailing Address Number and Street	Chowchilla
	CA
	City
	State
	Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	40	75	100	80	35	0
Number under roof	385	0	0	0	0	0
Maximum number	425	75	100	80	35	0
Average number	425	75	100	80	35	0
Avg live weight (lbs)	1,300	1,400	700	500		

Predominant milk cow breed: Holstein

Average milk production: 66 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 13,554.94 tons per reporting period

Total nitrogen from manure: 172,485.96 lbs per reporting period

After ammonia losses (30% loss applied): 120,740.17 lbs per reporting period

Total phosphorus from manure: 28,474.96 lbs per reporting period

Total potassium from manure: 80,274.52 lbs per reporting period

Total salt from manure: 217,357.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 11,610,000 gallons

Total nitrogen generated: 57,489.37 lbs

Total phosphorus generated: 7,275.20 lbs

Total potassium generated: 60,749.43 lbs

Total salt generated: 567,798.81 lbs

$$\begin{array}{r}
 11,610,000 \text{ gallons applied} \\
 + 0 \text{ gallons exported} \\
 - 0 \text{ gallons imported} \\
 = 11,610,000 \text{ gallons generated}
 \end{array}$$

D. FRESH WATER SOURCES

Source Description	Type
CWD canal	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

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F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	Separator solids	1,710.00 <i>ton</i>	Dry-weight	24.9		17,000.00	8,340.00	10,900.00		0.00
10/02/2023	Separator solids	684.00 <i>ton</i>	Dry-weight	24.9		17,000.00	8,340.00	10,900.00		0.00
10/26/2023	Corral solids	96.50 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00
10/26/2023	Corral solids	184.90 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00
10/26/2023	Corral solids	164.80 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00
10/26/2023	Corral solids	321.60 <i>ton</i>	Dry-weight	57.1		24,100.00	8,240.00	28,100.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	77,004.81	35,417.16	57,705.59	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	77,004.81	35,417.16	57,705.59	0.00

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
field A	55	55	2	both	X250-X140-X060-XXXX
field B	63	63	2	both	X250-X140-X060-XXXX
field C	70	70	2	both	X250-X140-X060-XXXX
Totals for areas that were used for application	188	188	6		
Totals for areas that were not used for application					
Land application area totals	188	188	6		

B. CROPS AND HARVESTS

field A																				
Field name: field A																				
11/01/2022: Wheat, silage, soft dough																				
Crop: Wheat, silage, soft dough Acres planted: 55 Plant date: 11/01/2022																				
<table border="1"> <thead> <tr> <th>Harvest date</th><th>Yield</th><th>Reporting basis</th><th>Density (lbs/cu ft)</th><th>Moisture (%)</th><th>N (mg/kg)</th><th>P (mg/kg)</th><th>K (mg/kg)</th><th>Salt (mg/kg)</th><th>TFS (%)</th></tr> </thead> <tbody> <tr> <td>05/09/2023</td><td>825.00 ton</td><td>Dry-weight</td><td></td><td>50.9</td><td>14,800.00</td><td>2,665.00</td><td>15,000.00</td><td></td><td>10.80</td></tr> </tbody> </table>	Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	05/09/2023	825.00 ton	Dry-weight		50.9	14,800.00	2,665.00	15,000.00		10.80
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)											
05/09/2023	825.00 ton	Dry-weight		50.9	14,800.00	2,665.00	15,000.00		10.80											
<table border="1"> <thead> <tr> <th></th><th>Yield (tons/acre)</th><th>Total N (lbs/acre)</th><th>Total P (lbs/acre)</th><th>Total K (lbs/acre)</th><th>Salt (lbs/acre)</th></tr> </thead> <tbody> <tr> <td>Anticipated harvest content</td><td>18.00</td><td>198.00</td><td>30.60</td><td>149.40</td><td>0.00</td></tr> <tr> <td>Total actual harvest content</td><td>15.00</td><td>218.00</td><td>39.26</td><td>220.95</td><td>1,590.84</td></tr> </tbody> </table>		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	0.00	Total actual harvest content	15.00	218.00	39.26	220.95	1,590.84		
	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	0.00															
Total actual harvest content	15.00	218.00	39.26	220.95	1,590.84															
06/07/2023: Corn, silage																				
Crop: Corn, silage Acres planted: 55 Plant date: 06/07/2023																				
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Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)											
09/25/2023	1,320.00 ton	Dry-weight		65.4	12,700.00	1,850.00	18,800.00		7.35											
<table border="1"> <thead> <tr> <th></th><th>Yield (tons/acre)</th><th>Total N (lbs/acre)</th><th>Total P (lbs/acre)</th><th>Total K (lbs/acre)</th><th>Salt (lbs/acre)</th></tr> </thead> <tbody> <tr> <td>Anticipated harvest content</td><td>30.00</td><td>240.00</td><td>45.00</td><td>198.00</td><td>0.00</td></tr> <tr> <td>Total actual harvest content</td><td>24.00</td><td>210.92</td><td>30.72</td><td>312.23</td><td>1,220.69</td></tr> </tbody> </table>		Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)	Anticipated harvest content	30.00	240.00	45.00	198.00	0.00	Total actual harvest content	24.00	210.92	30.72	312.23	1,220.69		
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)															
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00															
Total actual harvest content	24.00	210.92	30.72	312.23	1,220.69															

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field BField name: field B

11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 63 Plant date: 11/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	945.00 ton	Dry-weight		53.3	14,750.00	2,275.00	13,250.00		10.51

	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	0.00
Total actual harvest content	15.00	206.65	31.87	185.63	1,472.45

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 63 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	1,512.00 ton	Dry-weight		65.6	12,800.00	1,640.00	20,400.00		8.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	24.00	211.35	27.08	336.84	1,411.78

field CField name: field C

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 70 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,050.00 ton	Dry-weight		64.0	11,675.00	2,245.00	17,650.00		9.56

	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	0.00
Total actual harvest content	15.00	126.09	24.25	190.62	1,032.48

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field C

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 70 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,918.00 ton	Dry-weight		64.1	11,700.00	1,925.00	18,400.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.40	230.18	37.87	361.99	1,416.47

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

field A - 11/01/2022: Wheat, silage, soft dough

Field name: field A

Crop: Wheat, silage, soft dough Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
wastewater application	Process wastewater	83.57	14.17	108.15	501.43
Application event totals		83.57	14.17	108.15	501.43
11/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Amount
wastewater application	Process wastewater	64.49	5.22	92.33	610.85
CWD canal	Surface water	4.59	0.00	0.00	0.00
Application event totals		69.08	5.22	92.33	610.85

field A - 06/07/2023: Corn, silage

Field name: field A

Crop: Corn, silage Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/11/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Amount
dry manure application	Separator solids	49.30	14.04	14.95	461.34
Application event totals		49.30	14.04	14.95	461.34

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field A - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	57.90	7.57	68.75	397.65	480,000.00 gal
CWD canal	Surface water	7.40	0.00	0.00	0.00	8,662,126.00 gal
Application event totals		65.30	7.57	68.75	397.65	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	8.29	0.00	0.00	0.00	9,707,555.00 gal
Application event totals		8.29	0.00	0.00	0.00	
07/22/2023	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
wastewater application	Process wastewater	57.76	6.95	37.69	786.55	900,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	5,973,880.00 gal
Application event totals		62.87	6.95	37.69	786.55	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	46.21	5.56	30.15	629.24	720,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	5,973,880.00 gal
Application event totals		51.31	5.56	30.15	629.24	
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
CWD canal	Surface water	5.10	0.00	0.00	0.00	5,973,880.00 gal
Application event totals		5.10	0.00	0.00	0.00	

field B - 11/02/2022: Wheat, silage, soft dough

Field name: field B

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

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field B - 11/02/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	85.12	14.44	110.15	510.71	630,000.00 gal
Application event totals		85.12	14.44	110.15	510.71	
10/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	66.54	5.38	95.26	630.25	780,000.00 gal
CWD canal	Surface water	4.47	0.00	0.00	0.00	5,987,457.00 gal
Application event totals		71.00	5.38	95.26	630.25	

field B - 06/02/2023: Corn, silage

Field name: field B

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/12/2023	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
dry manure application	Separator solids	39.44	11.23	11.96	369.07	252.00 ton
Application event totals		39.44	11.23	11.96	369.07	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	50.55	6.61	60.02	347.15	480,000.00 gal
CWD canal	Surface water	7.02	0.00	0.00	0.00	9,408,861.00 gal
Application event totals		57.56	6.61	60.02	347.15	

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field B - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	7.91	0.00	0.00	0.00	10,606,352.00 gal
Application event totals		7.91	0.00	0.00	0.00	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	50.43	6.07	32.90	686.67	900,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	6,842,808.00 gal
Application event totals		55.53	6.07	32.90	686.67	
08/02/2023	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
wastewater application	Process wastewater	40.34	4.85	26.32	549.34	720,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	6,842,808.00 gal
Application event totals		45.45	4.85	26.32	549.34	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	5.10	0.00	0.00	0.00	6,842,808.00 gal
Application event totals		5.10	0.00	0.00	0.00	

field C - 11/22/2022: Wheat, silage, soft dough

Field name: field C

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

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

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field C - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	83.90	14.23	108.58	503.42	690,000.00 gal
Application event totals		83.90	14.23	108.58	503.42	
11/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	66.79	5.40	95.63	632.67	870,000.00 gal
CWD canal	Surface water	4.34	0.00	0.00	0.00	6,462,652.00 gal
Application event totals		71.13	5.40	95.63	632.67	

field C - 06/10/2023: Corn, silage

Field name: field C

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	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
dry manure application	Corral solids	112.35	38.11	83.14	0.00	210.00 ton
Application event totals		112.35	38.11	83.14	0.00	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	7.78	0.00	0.00	0.00	11,594,758.00 gal
Application event totals		7.78	0.00	0.00	0.00	

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field C - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/11/2023	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
wastewater application	Process wastewater	36.31	4.37	23.69	494.41	720,000.00 gal
CWD canal	Surface water	7.14	0.00	0.00	0.00	10,644,368.00 gal
Application event totals		43.45	4.37	23.69	494.41	
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
wastewater application	Process wastewater	30.26	3.64	19.74	412.00	600,000.00 gal
CWD canal	Surface water	5.10	0.00	0.00	0.00	7,603,120.00 gal
Application event totals		35.36	3.64	19.74	412.00	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	48.41	5.83	31.59	659.21	960,000.00 gal
CWD canal	Surface water	4.47	0.00	0.00	0.00	6,652,730.00 gal
Application event totals		52.88	5.83	31.59	659.21	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
wastewater application	Process wastewater	48.41	5.83	31.59	659.21	960,000.00 gal
CWD canal	Surface water	3.83	0.00	0.00	0.00	5,702,340.00 gal
Application event totals		52.24	5.83	31.59	659.21	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD canal	Surface water	3.83	0.00	0.00	0.00	5,702,340.00 gal
Application event totals		3.83	0.00	0.00	0.00	

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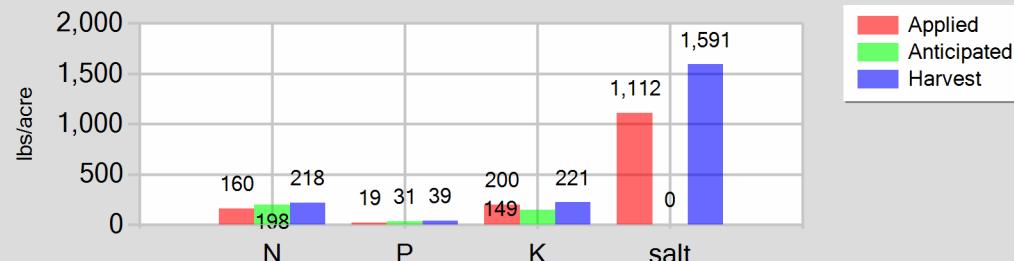
Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

field A - 11/01/2022: Wheat, silage, soft dough

Field name: field A Crop: Wheat, silage, soft dough Plant date: 11/01/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	148.06	19.39	200.48	1,112.28
Fresh water	4.59	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.65	19.39	200.48	1,112.28
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	218.00	39.26	220.95	1,590.84
Nutrient balance	-58.35	-19.86	-20.47	-478.56
Applied to removed ratio	0.73	0.49	0.91	0.70

Fresh water applied

5,376,492.00 *gallons*
198.00 *acre-inches*
3.60 *inches/acre*

Process wastewater applied

1,200,000.00 *gallons*
44.19 *acre-inches*
0.80 *inches/acre*

Total harvests for the crop

1 *harvests*

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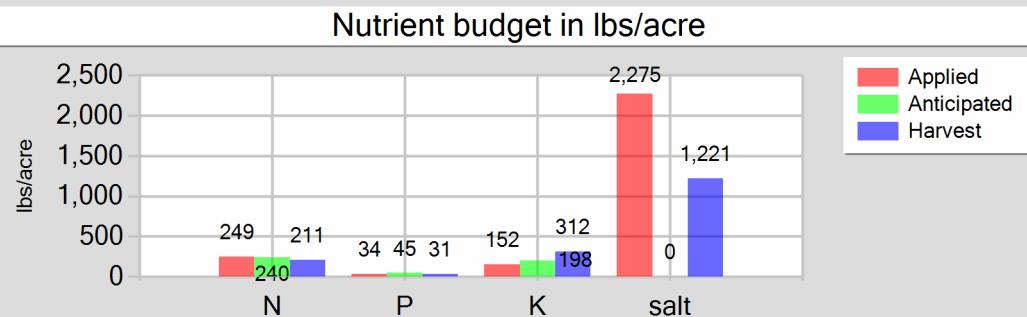
Reporting period 01/01/2023 to 12/31/2023.

field A - 06/07/2023: Corn, silage

Field name: field A

Crop: Corn, silage

Plant date: 06/07/2023



	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	49.30	14.04	14.95	461.34
Process wastewater	161.87	20.09	136.59	1,813.44
Fresh water	31.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	249.17	34.12	151.54	2,274.78
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	210.92	30.72	312.23	1,220.69
Nutrient balance	38.25	3.40	-160.69	1,054.10
Applied to removed ratio	1.18	1.11	0.49	1.86

Fresh water applied

36,291,321.00 gallons
1,336.49 acre-inches
24.30 inches/acre

Process wastewater applied

2,100,000.00 gallons
77.34 acre-inches
1.41 inches/acre

Total harvests for the crop

1 harvests

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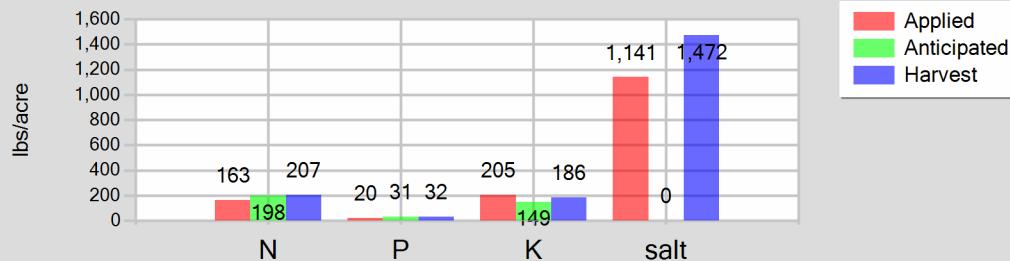
field B - 11/02/2022: Wheat, silage, soft dough

Field name: field B

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	151.66	19.82	205.41	1,140.96
Fresh water	4.47	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	163.12	19.82	205.41	1,140.96
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	206.65	31.87	185.63	1,472.45
Nutrient balance	-43.53	-12.05	19.78	-331.49
Applied to removed ratio	0.79	0.62	1.11	0.77

Fresh water applied

5,987,457.00 gallons
220.50 acre-inches
3.50 inches/acre

Process wastewater applied

1,410,000.00 gallons
51.93 acre-inches
0.82 inches/acre

Total harvests for the crop

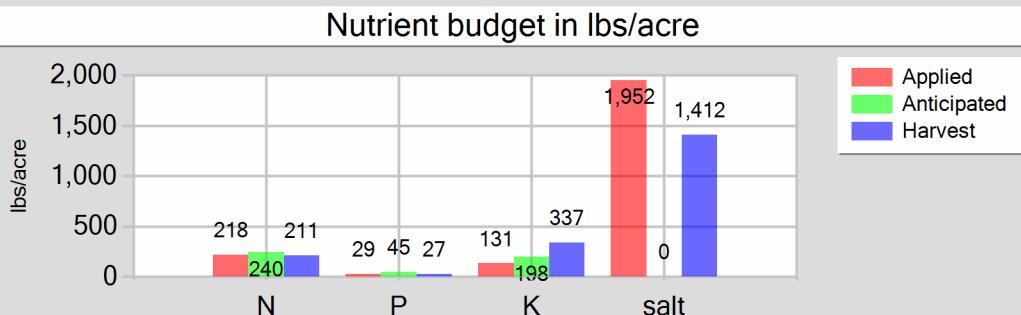
1 harvests

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field B - 06/02/2023: Corn, silage

Field name: field B Crop: Corn, silage Plant date: 06/02/2023



	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	39.44	11.23	11.96	369.07
Process wastewater	141.32	17.53	119.25	1,583.17
Fresh water	30.24	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	217.99	28.77	131.21	1,952.24
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	211.35	27.08	336.84	1,411.78
Nutrient balance	6.64	1.69	-205.64	540.46
Applied to removed ratio	1.03	1.06	0.39	1.38

Fresh water applied
40,543,637.00 gallons
1,493.08 acre-inches
23.70 inches/acre

Process wastewater applied
2,100,000.00 gallons
77.34 acre-inches
1.23 inches/acre

Total harvests for the crop
1 harvests

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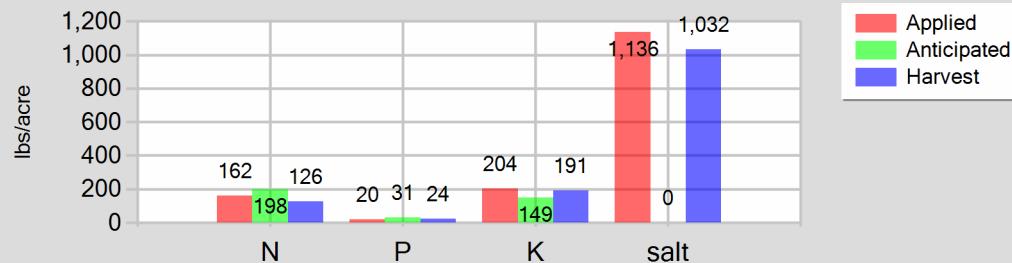
field C - 11/22/2022: Wheat, silage, soft dough

Field name: field C

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Nutrient budget in lbs/acre



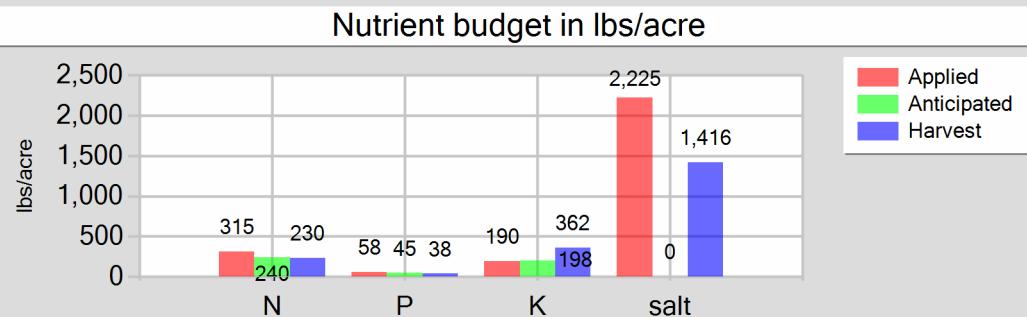
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	6,462,652.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	238.00 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	3.40 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	150.70	19.63	204.21	1,136.09	1,560,000.00 gallons
Fresh water	4.34	0.00	0.00	0.00	57.45 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.82 inches/acre
Total nutrients applied	162.03	19.63	204.21	1,136.09	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	126.09	24.25	190.62	1,032.48	
Nutrient balance	35.94	-4.61	13.59	103.61	
Applied to removed ratio	1.29	0.81	1.07	1.10	
Total harvests for the crop					1 harvests

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field C - 06/10/2023: Corn, silage

Field name: field C Crop: Corn, silage Plant date: 06/10/2023



	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	112.35	38.11	83.14	0.00
Process wastewater	163.39	19.66	106.61	2,224.82
Fresh water	32.15	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	314.88	57.77	189.75	2,224.82
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	230.18	37.87	361.99	1,416.47
Nutrient balance	84.71	19.90	-172.24	808.35
Applied to removed ratio	1.37	1.53	0.52	1.57

Fresh water applied
47,899,656.00 gallons
1,763.98 acre-inches
25.20 inches/acre

Process wastewater applied
3,240,000.00 gallons
119.32 acre-inches
1.70 inches/acre

Total harvests for the crop
1 harvests

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NUTRIENT ANALYSES**A. MANURE ANALYSES**

t3130041a

Sample and source description: t3130041a

Sample date: 05/10/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 80.2 %

	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	24,900.00	7,090.00	7,550.00	179,000.00	5,720.00	1,980.00	5,100.00	1,130.00		23.30
DL	100.00	10.00	10.00	10.00	10.00	10.00	100.00	100.00		0.10

t3158060a

Sample and source description: t3158060a

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

Moisture: 25.1 %

	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	25,000.00	8,480.00	18,500.00							0.00
DL	100.00	10.00	10.00							0.10

t3282020a

Sample and source description: t3282020a

Sample date: 10/09/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 24.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	8,340.00	10,900.00							0.00
DL	100.00	10.00	10.00							0.10

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F. SUBSURFACE (TILE) DRAINAGE ANALYSES

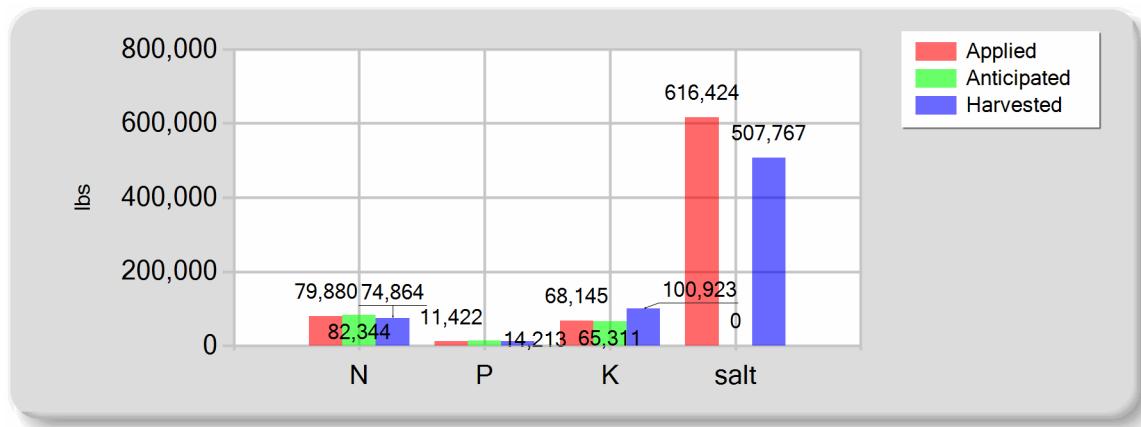
No subsurface (tile) drainage analyses entered.

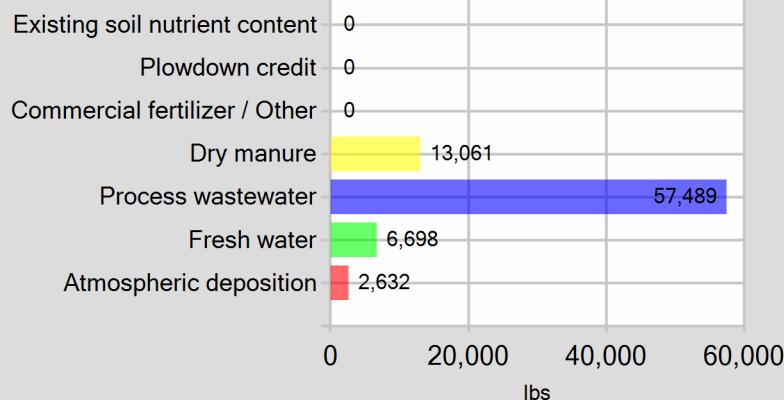
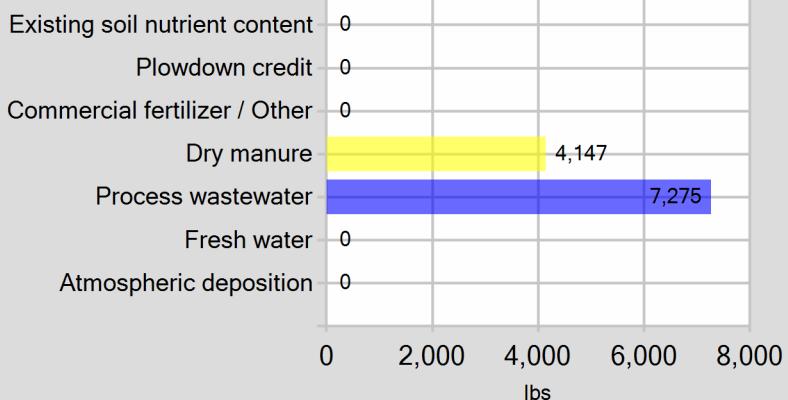
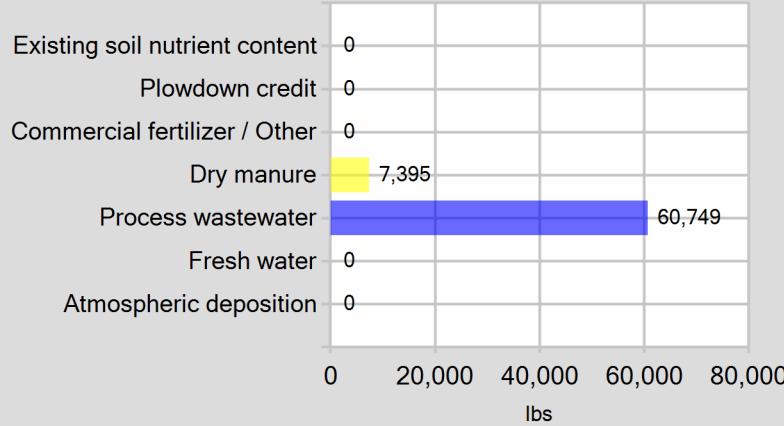
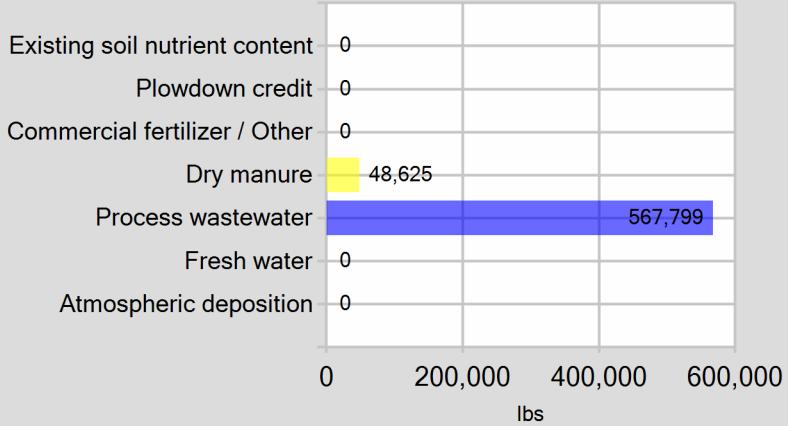
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Reporting period 01/01/2023 to 12/31/2023.

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	13,060.93	4,147.26	7,395.35	48,625.24
Process wastewater	57,489.37	7,275.20	60,749.43	567,798.81
Fresh water	6,697.86	0.00	0.00	0.00
Atmospheric deposition	2,632.00	0.00	0.00	0.00
Total nutrients applied	79,880.16	11,422.46	68,144.78	616,424.04
Anticipated crop nutrient removal	82,344.00	14,212.80	65,311.20	0.00
Actual crop nutrient removal	74,863.63	11,911.10	100,923.47	507,766.87
Nutrient balance	5,016.54	-488.64	-32,778.69	108,657.17
Applied to removed ratio	1.07	0.96	0.68	1.21

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

Ag Well 2 is still dry.

Shop well is still dry.

All fields exceed 40 acres. Two samples taken of each crop and samples averaged for submittal purposes.

Deep Wells were not used in 2023. Producer did not have the finances to have pumps turned on for electrical service for sampling purposes only.

Fields A & B Wheat Silage were low in moisture. This may have skewed the N extraction ratio causing a negative nutrient value.

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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

Tony Vitoria

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

Mark Vitoria

PRINT OR TYPE NAME

DATE

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

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

	CERTIFICATION
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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.

Tony Vitoria

SIGNATURE OF OWNER OF FACILITY

Tony Vitoria

PRINT OR TYPE NAME

6-12-24

DATE

SIGNATURE OF OPERATOR OF FACILITY

Mark Vitoria

PRINT OR TYPE NAME

6-12-24

DATE

ATTACHMENT D

**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, **complete a separate form for each destination**.
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:			
Name of Operator: <u>Mark Vitoria</u>			
Name of Dairy Facility: <u>Vitoria Farms</u>			
Facility Address: <u>12429 Avenue 221 Chowchilla</u>		Number and Street	City
		Zip Code	
Contact Person Name and Phone Number: <u>Mark Vitoria 559-647-9054</u>			
		Name	Phone Number
Manure/Process Wastewater Hauler Information:			
Name of Hauling Company/Person: <u>J AF Fertilizer</u>			
Address of Hauling Company /Person: <u>1215 North Ave Gustine</u>		Number and Street	City
		Zip Code	
Contact Person: <u>Flone Nunes 209 495 1964</u>			
		Name	Phone Number
Destination Information:			
Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)			
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):			
<u>Fazendas Brus 23732 Road 12</u>		Number and Street	City
		Zip Code	Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number: <u>025-140-005</u>			
<u>23732 Road 12</u>		Number and Street	City
		Zip Code	Assessor's Parcel Number
Dates Hauled: <u>9/30 - 10/2</u>			
Amount Hauled:			
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:			
Manure: <u>2394</u> Tons or Cubic Yards (indicate which units used)			
Manure Solids Content (if amount reported in tons): _____			
Manure Density (if amount reported in cubic yards): _____			

Attachment D
Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

D-2

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: N/A Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No N/A

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator's Signature: P. J. Hause Date: 10/3/23

Hauler's Signature: John Hause Date: 10/3/23

ATTACHMENT D

**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information: Name of Operator: <u>Mark Vitoria</u>	
Name of Dairy Facility: <u>Vitoria Farms</u>	
Facility Address: <u>12429 Avenue 24 Ch婉hilla</u> Number and Street	City <u>93610</u> Zip Code
Contact Person Name and Phone Number: <u>Mark Vitoria</u> Name	Phone Number <u>559 647 9054</u>
Manure/Process Wastewater Hauler Information:	
Name of Hauling Company/Person: <u>J&F Fertilizer</u>	
Address of Hauling Company /Person: <u>1275 North Ave Gustine</u> Number and Street	City <u>95320</u> Zip Code
Contact Person: <u>Ebone Nunes</u> Name	Phone Number <u>209 495 1964</u>
Destination Information:	
Composting Facility / Broker /Farmer Other (identify) _____ (please circle one)	
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above): <u>Fasunites BYRS 23732 Road 12 Ch婉hilla 93610 209 383 6040</u> Name Number and Street City Zip Code Phone Number	
Manure/Process Wastewater Destination Address or Assessor's Parcel Number: <u>020 012 003</u> <u>Road 6 Ch婉hilla 93610 020 040 002</u> Number and Street City Zip Code Assessor's Parcel Number	
Dates Hauled: <u>10/25-26 2023</u> <u>020 040 005</u>	
Amount Hauled: Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:	
Manure: <u>7168</u> Tons or Cubic Yards (indicate which units used)	
Manure Solids Content (if amount reported in tons): _____	
Manure Density (if amount reported in cubic yards): _____	

Attachment D

Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

D-2

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: N/A Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes

No N/A

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.
(Operator shall provide initials here to acknowledge this requirement).

Certification:

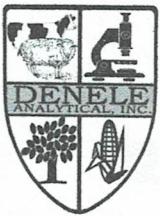
I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator's Signature: W.W. Z.

Date: 10/26/23

Hauler's Signature: John Hause

Date: 10/26/23



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
Vitoria Farms
12429 Ave. 24
Chowchilla, CA 93610

Grower

Consultant:
CDC

PURCHASE ORDER:
RECEIVED DATE: 11/13/23 2:21 PM
SUBMITTED BY: KD
ANALYZED DATE: 11/16/23
NOTES: Temperature was above qualifying at 21.2c

Irrigation/ Ground Water (H1)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Domestic Well-Mobile Homes	T3317028A	Electrical Conductivity (EC)	EPA 120.1 and	0.894	mmhos/cm
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	20.6	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	572	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH ₃ -N)	94.4	98.8 (T3317024A)	96.4 (T3317024A)	2.45
Electrical Conductivity (EC)	97.0			3.03
Nitrate Nitrogen (NO ₃ -N)	99.5	98.9 (T3317005A)	98.7 (T3317005A)	0.223

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supersede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.



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Compliance Analysis Report

Customer
Vitoria Farms
12429 Ave. 24
Chowchilla, CA 93610

Grower

Consultant:
CDC

PURCHASE ORDER:
RECEIVED DATE: 11/13/23 2:19 PM
SUBMITTED BY: KD
ANALYZED DATE: 11/16/23
NOTES: Temperature was above qualifying at 21.0c

Irrigation/ Ground Water (H1)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Domestic Well-Renters	T3317027A	Electrical Conductivity (EC)	EPA 120.1 and	0.888	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	16.3	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)	94.4	98.8 (T3317024A)	96.4 (T3317024A)	2.45
Electrical Conductivity (EC)	97.0			3.03
Nitrate Nitrogen (NO3-N)	99.5	98.9 (T3317005A)	98.7 (T3317005A)	0.223

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