

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: Sozinho Jerseys

Physical address of dairy:

4615 Excelsior AVE

Number and Street

Hanford

Kings

93230

City

County

Zip Code

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

Date facility was originally placed in operation: 01/01/1970

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

B. OPERATORS

Sozinho, Tony

Operator name: Sozinho, Tony

Telephone no.: (559) 381-5485

Landline

Cellular

8489 E Elkhorn AVE

Selma

CA

93662

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Sozinho, Tony

Legal owner name: Sozinho, Tony

Telephone no.: (559) 381-5485

Landline

Cellular

8489 E Elkhorn AVE

Selma

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

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

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	95	130	100	100	0
Number under roof	1,050	0	0	0	0	0
Maximum number	1,050	95	130	100	100	0
Average number	1,050	95	130	100	100	0
Avg live weight (lbs)	1,100	1,200	900	700		

Predominant milk cow breed: JerseyAverage milk production: 66 pounds per cow per day**B. MANURE GENERATED**Total manure excreted by the herd: 30,340.61 tons per reporting periodTotal nitrogen from manure: 389,978.87 lbs per reporting periodAfter ammonia losses (30% loss applied): 272,985.21 lbs per reporting periodTotal phosphorus from manure: 64,775.42 lbs per reporting periodTotal potassium from manure: 198,325.29 lbs per reporting periodTotal salt from manure: 516,237.75 lbs per reporting period**C. PROCESS WASTEWATER GENERATED**Process wastewater generated: 60,920,352 gallonsTotal nitrogen generated: 205,629.76 lbsTotal phosphorus generated: 17,942.41 lbsTotal potassium generated: 148,048.31 lbsTotal salt generated: 892,762.62 lbs

<u>60,920,352 gallons applied</u>	
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>60,920,352 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
Barn	Ground water
Canal	Surface water

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

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

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

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/15/2023	Corral solids	3,000.00 ton	As-is	32.6		8,000.00	5,000.00	19,900.00		62.60

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	48,000.00	30,000.00	119,400.00	2,531,544.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	48,000.00	30,000.00	119,400.00	2,531,544.00

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

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

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	50	50	2	process wastewater	X014-X030-X019-XXXX
2	8	8	2	process wastewater	X014-X030-X022-XXXX
3	60	60	2	process wastewater	X014-X030-X019-XXXX X014-X030-X022-XXXX
4	80	80	2	process wastewater	X014-X030-X020-XXXX X014-X030-X021-XXXX
5	80	80	2	process wastewater	X014-X030-X020-XXXX X014-X030-X021-XXXX
Totals for areas that were used for application	278	278	10		
Totals for areas that were not used for application					
Land application area totals	278	278	10		

B. CROPS AND HARVESTS

1

Field name: 1

11/01/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 50 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	812.50 ton	Dry-weight		47.7	16,300.00	3,200.00	27,100.00		10.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.25	277.06	54.39	460.63	1,766.04

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

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

1

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 50 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	1,323.40 ton	Dry-weight		66.7	25,000.00	3,800.00	19,800.00		5.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	26.47	440.69	66.99	349.03	976.57

2

Field name: 2

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: _____ 8 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	133.00 ton	Dry-weight		45.3	19,000.00	3,000.00	35,300.00		12.77

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.63	345.57	54.56	642.03	2,322.58

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 8 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	221.60 ton	Dry-weight		68.8	21,400.00	3,700.00	20,100.00		7.36

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.70	369.89	63.95	347.42	1,272.16

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

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

3

Field name: 3

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 60 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,012.20 ton	Dry-weight		56.1	17,200.00	2,600.00	19,200.00		9.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.87	254.76	38.51	284.39	1,346.40

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 60 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	1,553.50 ton	Dry-weight		69.7	20,000.00	3,800.00	22,800.00		7.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.89	313.81	59.62	357.74	1,172.07

4

Field name: 4

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 80 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,313.50 ton	Dry-weight		55.5	17,800.00	4,100.00	31,700.00		11.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.42	260.11	59.91	463.22	1,636.62

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

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

4

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	2,307.91 ton	Dry-weight		70.1	25,700.00	4,000.00	24,600.00		6.28

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.85	443.37	69.01	424.39	1,083.40

5

Field name: 5

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 80 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,305.30 ton	Dry-weight		61.2	18,100.00	3,200.00	28,500.00		9.85

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.32	229.17	40.52	360.85	1,247.15

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	2,268.10 ton	Dry-weight		65.5	16,000.00	3,500.00	21,000.00		8.66

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.35	313.00	68.47	410.81	1,694.10

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

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

NUTRIENT BUDGET**A. LAND APPLICATIONS**

1 - 11/01/2022: Wheat, silage, soft dough

Field name: 1

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	
12/22/2022	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
WW	Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 gal
Application event totals		87.63	4.16	42.78	281.78	
01/16/2023	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
WW	Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.40	3,194,000.00 gal
Application event totals		87.63	4.16	42.78	288.18	
02/15/2023	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
WW	Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.40	3,194,000.00 gal
Application event totals		87.63	4.16	42.78	288.18	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.40	3,194,000.00 gal
Application event totals		87.63	4.16	42.78	288.18	

1 - 06/01/2023: Corn, silage

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

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

1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		0.00	0.00	0.00	12.83	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		0.00	0.00	0.00	12.83	
07/15/2023	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
WW	Process wastewater	95.48	14.69	120.77	663.40	1,194,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		95.48	14.69	120.77	676.22	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		0.00	0.00	0.00	12.83	
08/05/2023	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
WW	Process wastewater	95.48	14.69	120.77	663.40	1,194,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		95.48	14.69	120.77	676.22	

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

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

1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		0.00	0.00	0.00	12.83	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	320.42	20.52	118.66	864.64	6,403,700.00 gal
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		320.42	20.52	118.66	877.47	
09/05/2023	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
Canal	Surface water	0.00	0.00	0.00	12.83	6,403,700.00 gal
Application event totals		0.00	0.00	0.00	12.83	

2 - 11/01/2022: Wheat, silage, boot stage

Field name:	2	Plant date:	11/01/2022			
Crop:	Wheat, silage, boot stage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/23/2022	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
WW	Process wastewater	103.21	4.90	50.38	331.87	225,000.00 gal
Application event totals		103.21	4.90	50.38	331.87	

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

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

2 - 11/01/2022: Wheat, silage, boot stage

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
WW	Process wastewater	103.21	4.90	50.38	331.87	225,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.81	384,000.00 gal
Application event totals		103.21	4.90	50.38	336.68	
02/19/2023	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
WW	Process wastewater	103.21	4.90	50.38	331.87	225,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.81	384,000.00 gal
Application event totals		103.21	4.90	50.38	336.68	
03/20/2023	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
WW	Process wastewater	103.21	4.90	50.38	331.87	225,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.81	384,000.00 gal
Application event totals		103.21	4.90	50.38	336.68	

2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 gal
Application event totals		0.00	0.00	0.00	11.07	

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

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

2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	312.37	48.06	395.12	2,170.35	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 gal
Application event totals		312.37	48.06	395.12	2,181.42	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 gal
Application event totals		0.00	0.00	0.00	11.07	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 gal
Application event totals		0.00	0.00	0.00	11.07	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 gal
Application event totals		0.00	0.00	0.00	11.07	
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
WW	Process wastewater	195.46	12.52	72.38	527.43	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 gal
Application event totals		195.46	12.52	72.38	538.50	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 gal
Application event totals		0.00	0.00	0.00	11.07	

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

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

2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	11.07
Application event totals		0.00	0.00	0.00	11.07
					884,500.00 gal

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW	Process wastewater	113.15	5.37	55.23	363.83
Canal	Surface water	0.00	0.00	0.00	5.91
Application event totals		113.15	5.37	55.23	369.74
01/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	5.91
Application event totals		0.00	0.00	0.00	5.91
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW	Process wastewater	113.15	5.37	55.23	363.83
Canal	Surface water	0.00	0.00	0.00	5.91
Application event totals		113.15	5.37	55.23	369.74

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

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

3 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	113.15	5.37	55.23	363.83	1,850,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.91	3,539,400.00 gal
Application event totals		113.15	5.37	55.23	369.74	

3 - 06/01/2023: Corn, silage

Field name: 3

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		0.00	0.00	0.00	10.91	
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
WW	Process wastewater	135.72	20.88	171.67	942.95	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		135.72	20.88	171.67	953.86	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		0.00	0.00	0.00	10.91	

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

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

3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	135.72	20.88	171.67	942.95	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		135.72	20.88	171.67	953.86	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		0.00	0.00	0.00	10.91	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	84.92	5.44	31.45	229.15	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		84.92	5.44	31.45	240.07	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		0.00	0.00	0.00	10.91	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 gal
Application event totals		0.00	0.00	0.00	10.91	

4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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

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

4 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/27/2022	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
WW	Process wastewater	93.37	4.43	45.58	300.25	2,035,600.00 gal
Application event totals		93.37	4.43	45.58	300.25	
01/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.39	5,101,392.00 gal
Application event totals		0.00	0.00	0.00	6.39	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.37	4.43	45.58	300.25	2,035,600.00 gal
Canal	Surface water	0.00	0.00	0.00	6.39	5,101,392.00 gal
Application event totals		93.37	4.43	45.58	306.63	
03/23/2023	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
WW	Process wastewater	93.37	4.43	45.58	300.25	2,035,600.00 gal
Canal	Surface water	0.00	0.00	0.00	6.39	5,101,392.00 gal
Application event totals		93.37	4.43	45.58	306.63	

4 - 06/01/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035

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

4 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		0.00	0.00	0.00	10.40	
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
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		101.79	15.66	128.75	717.61	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		0.00	0.00	0.00	10.40	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		101.79	15.66	128.75	717.61	
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
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		101.79	15.66	128.75	717.61	

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

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

4 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/18/2023	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
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		101.79	15.66	128.75	717.61	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		0.00	0.00	0.00	10.40	
09/08/2023	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
WW	Process wastewater	63.69	4.08	23.59	171.86	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 gal
Application event totals		63.69	4.08	23.59	182.26	

5 - 11/01/2022: Wheat, silage, boot stage

Field name:	5	Plant date:	11/01/2022	
Crop:	Wheat, silage, boot stage			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
WW	Process wastewater	93.42	4.43	45.60
Application event totals		93.42	4.43	45.60
				300.39
				2,036,572.00 gal

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

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

5 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/22/2023	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
WW	Process wastewater	93.42	4.43	45.60	300.39	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	7.90	6,309,208.00 gal
Application event totals		93.42	4.43	45.60	308.29	
03/21/2023	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
WW	Process wastewater	93.42	4.43	45.60	300.39	2,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	7.90	6,309,208.00 gal
Application event totals		93.42	4.43	45.60	308.29	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	7.90	6,309,208.00 gal
Application event totals		0.00	0.00	0.00	7.90	

5 - 06/01/2023: Corn, silage

Field name:	5	Plant date:	06/01/2023	
Crop:	Corn, silage			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal	Surface water	0.00	0.00	0.00
Application event totals		0.00	0.00	0.00

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

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

5 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	101.72	15.65	128.66	706.74	2,035,208.00 gal
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 gal
Application event totals		101.72	15.65	128.66	718.39	
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
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 gal
Application event totals		0.00	0.00	0.00	11.65	
07/29/2023	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
WW	Process wastewater	94.96	6.08	35.17	256.25	3,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 gal
Application event totals		94.96	6.08	35.17	267.91	
08/09/2023	Shank	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 gal
Application event totals		0.00	0.00	0.00	11.65	
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
WW	Process wastewater	94.96	6.08	35.17	256.25	3,036,572.00 gal
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 gal
Application event totals		94.96	6.08	35.17	267.91	

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

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

5 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	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
WW	Process wastewater	94.92	6.08	35.15	256.14	3,035,208.00 gal
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 gal
Application event totals		94.92	6.08	35.15	267.79	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 gal
Application event totals		0.00	0.00	0.00	11.65	

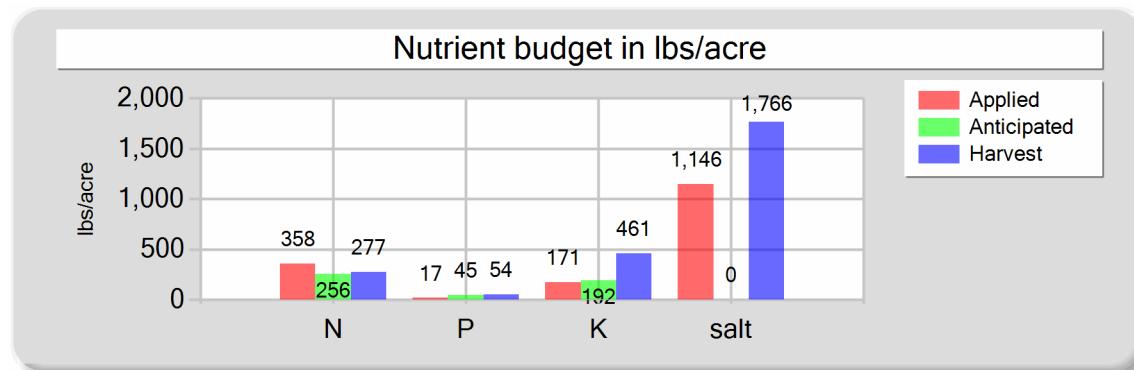
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

1 - 11/01/2022: Wheat, silage, soft dough

Field name: <u>1</u>	Crop: <u>Wheat, silage, soft dough</u>	Plant date: <u>11/01/2022</u>
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	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	350.52	16.64	171.11	1,127.12
Fresh water	0.00	0.00	0.00	19.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	357.52	16.64	171.11	1,146.31
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	277.06	54.39	460.63	1,766.04
Nutrient balance	80.46	-37.76	-289.52	-619.73
Applied to removed ratio	1.29	0.31	0.37	0.65

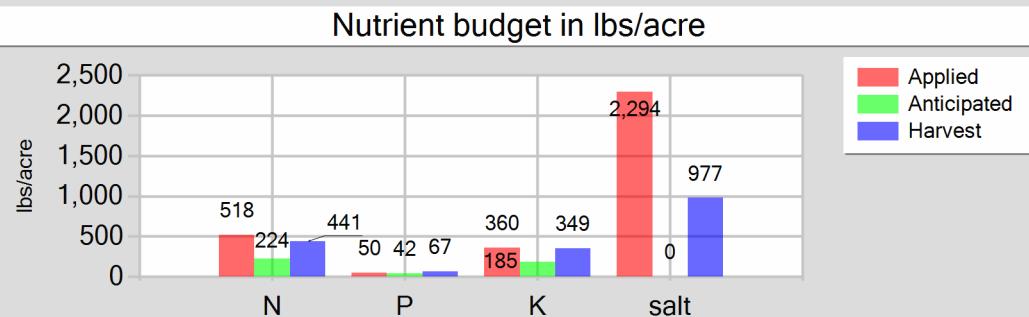
Fresh water applied
9,582,000.00 gallons
352.87 acre-inches
7.06 inches/acre
Process wastewater applied
4,776,000.00 gallons
175.88 acre-inches
3.52 inches/acre
Total harvests for the crop
1 harvests

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

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

1 - 06/01/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	511.38	49.90	360.20	2,191.44
Fresh water	0.00	0.00	0.00	102.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	518.38	49.90	360.20	2,294.04
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	440.69	66.99	349.03	976.57
Nutrient balance	77.69	-17.09	11.17	1,317.47
Applied to removed ratio	1.18	0.74	1.03	2.35

Fresh water applied
51,229,600.00 gallons
1,886.61 acre-inches
37.73 inches/acre

Process wastewater applied
8,791,700.00 gallons
323.77 acre-inches
6.48 inches/acre

Total harvests for the crop
1 harvests

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

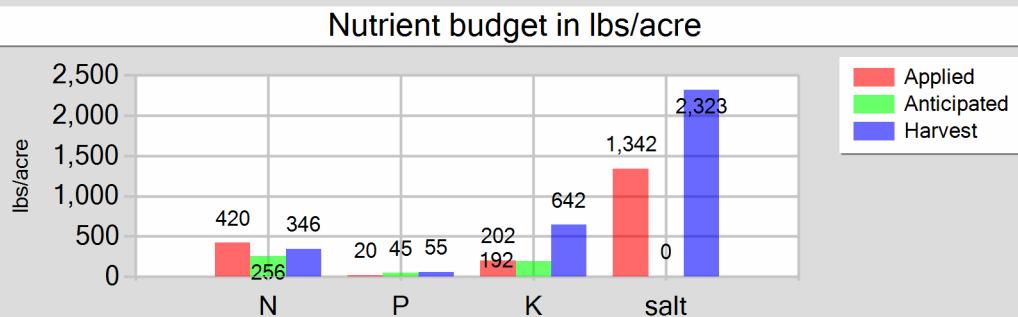
Reporting period 01/01/2023 to 12/31/2023.

2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

Crop: Wheat, silage, boot stage

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	412.83	19.59	201.53	1,327.48
Fresh water	0.00	0.00	0.00	14.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	419.83	19.59	201.53	1,341.90
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	345.57	54.56	642.03	2,322.58
Nutrient balance	74.27	-34.97	-440.50	-980.67
Applied to removed ratio	1.21	0.36	0.31	0.58

Fresh water applied

1,152,000.00 gallons
42.42 acre-inches
5.30 inches/acre

Process wastewater applied

900,000.00 gallons
33.14 acre-inches
4.14 inches/acre

Total harvests for the crop

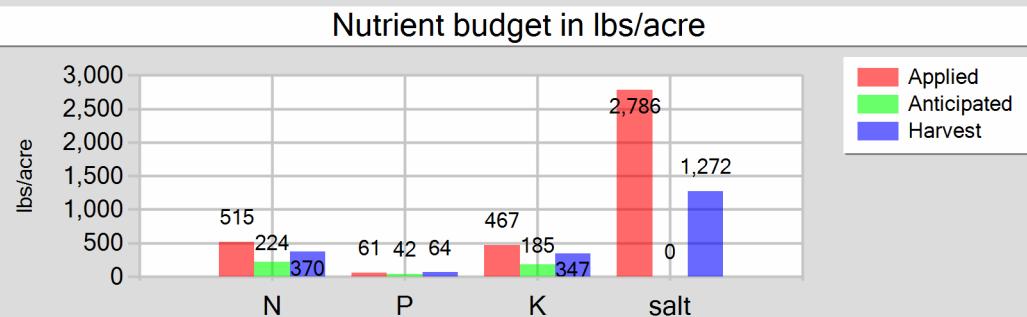
1 harvests

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

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

2 - 06/01/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 06/01/2023



	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	7,076,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	260.59 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.57 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	507.83	60.57	467.50	2,697.78	1,250,000.00 gallons
Fresh water	0.00	0.00	0.00	88.57	46.03 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	5.75 inches/acre
Total nutrients applied	514.83	60.57	467.50	2,786.36	
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	369.89	63.95	347.42	1,272.16	
Nutrient balance	144.93	-3.38	120.07	1,514.19	
Applied to removed ratio	1.39	0.95	1.35	2.19	
Total harvests for the crop					1 harvests

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

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

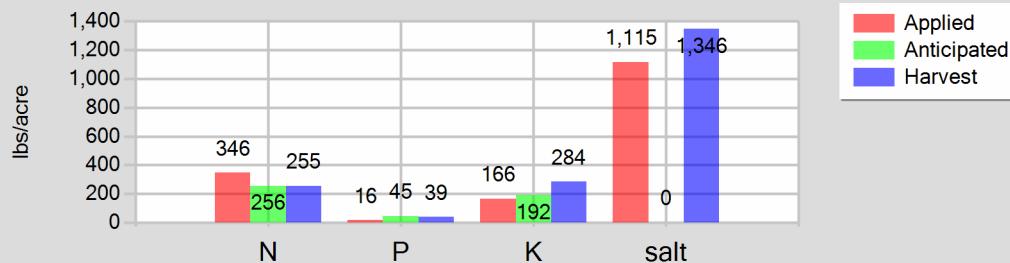
3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage

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	339.44	16.11	165.70	1,091.48
Fresh water	0.00	0.00	0.00	23.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	346.44	16.11	165.70	1,115.11
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	254.76	38.51	284.39	1,346.40
Nutrient balance	91.68	-22.40	-118.69	-231.28
Applied to removed ratio	1.36	0.42	0.58	0.83

Fresh water applied

14,157,600.00 gallons
521.38 acre-inches
8.69 inches/acre

Process wastewater applied

5,550,000.00 gallons
204.39 acre-inches
3.41 inches/acre

Total harvests for the crop

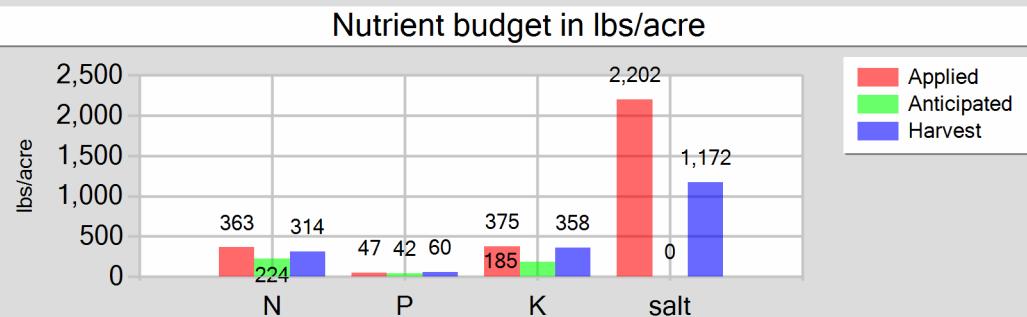
1 harvests

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

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

3 - 06/01/2023: Corn, silage

Field name: 3 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	356.35	47.20	374.78	2,115.05
Fresh water	0.00	0.00	0.00	87.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	363.35	47.20	374.78	2,202.37
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	313.81	59.62	357.74	1,172.07
Nutrient balance	49.54	-12.43	17.04	1,030.30
Applied to removed ratio	1.16	0.79	1.05	1.88

Fresh water applied
52,315,200.00 gallons
1,926.59 acre-inches
32.11 inches/acre

Process wastewater applied
6,109,716.00 gallons
225.00 acre-inches
3.75 inches/acre

Total harvests for the crop
1 harvests

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

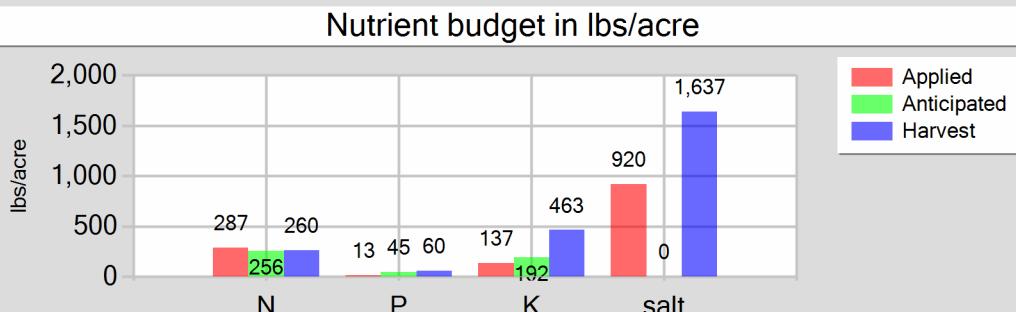
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

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	280.12	13.29	136.74	900.74
Fresh water	0.00	0.00	0.00	19.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.12	13.29	136.74	919.90
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	260.11	59.91	463.22	1,636.62
Nutrient balance	27.02	-46.62	-326.48	-716.72
Applied to removed ratio	1.10	0.22	0.30	0.56

Fresh water applied

15,304,176.00 gallons
563.60 acre-inches
7.05 inches/acre

Process wastewater applied

6,106,800.00 gallons
224.89 acre-inches
2.81 inches/acre

Total harvests for the crop

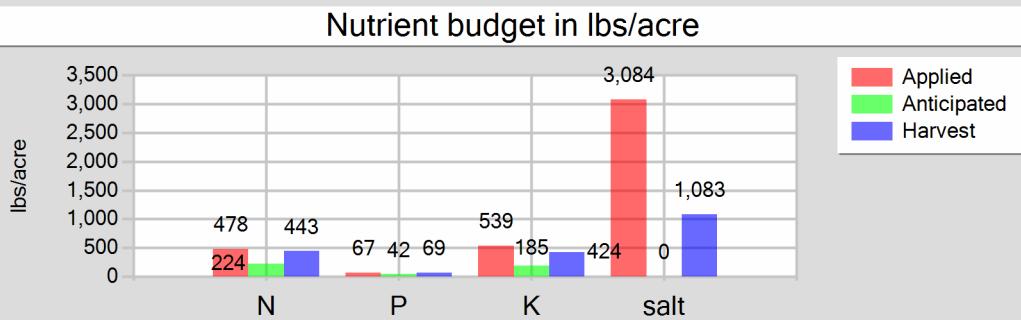
1 harvests

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

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

4 - 06/01/2023: Corn, silage

Field name: 4 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	470.83	66.71	538.58	3,000.71
Fresh water	0.00	0.00	0.00	83.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	477.83	66.71	538.58	3,083.92
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	443.37	69.01	424.39	1,083.40
Nutrient balance	34.47	-2.29	114.19	2,000.52
Applied to removed ratio	1.08	0.97	1.27	2.85

Fresh water applied
66,473,664.00 gallons
2,448.00 acre-inches
30.60 inches/acre

Process wastewater applied
10,182,860.00 gallons
375.00 acre-inches
4.69 inches/acre

Total harvests for the crop
1 harvests

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

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

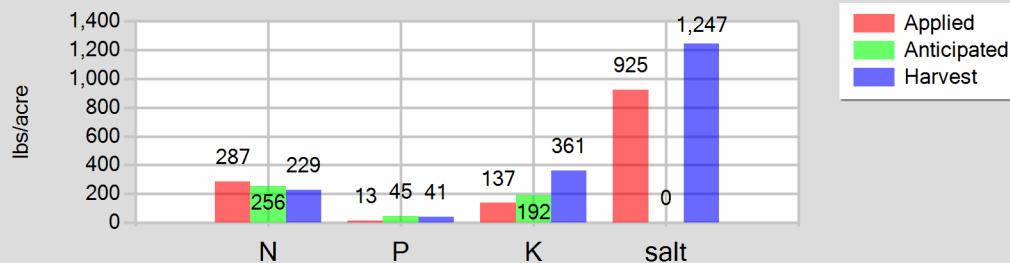
5 - 11/01/2022: Wheat, silage, boot stage

Field name: 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Nutrient budget in lbs/acre



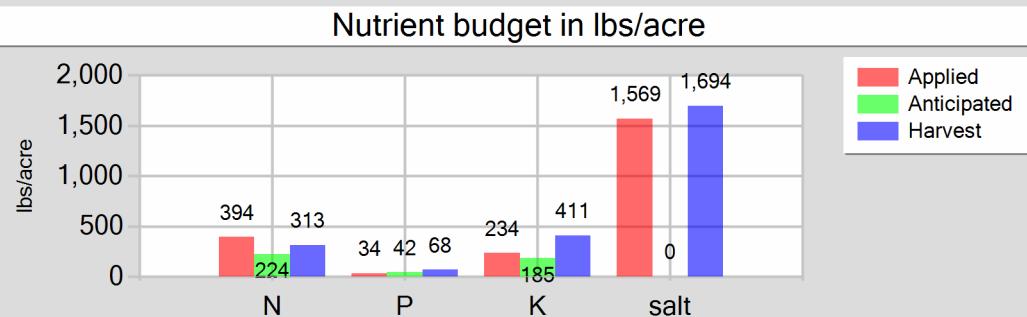
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	18,927,624.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	697.04 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	8.71 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	280.25	13.30	136.81	901.17	6,109,716.00 gallons
Fresh water	0.00	0.00	0.00	23.69	225.00 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.81 inches/acre
Total nutrients applied	287.25	13.30	136.81	924.86	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	229.17	40.52	360.85	1,247.15	
Nutrient balance	58.08	-27.22	-224.04	-322.29	
Applied to removed ratio	1.25	0.33	0.38	0.74	
Total harvests for the crop					1 harvests

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

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

5 - 06/01/2023: Corn, silage

Field name: 5 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	386.56	33.89	234.14	1,475.38
Fresh water	0.00	0.00	0.00	93.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	393.56	33.89	234.14	1,568.60
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	313.00	68.47	410.81	1,694.10
Nutrient balance	80.56	-34.58	-176.66	-125.50
Applied to removed ratio	1.26	0.49	0.57	0.93

Fresh water applied
74,473,664.00 gallons
2,742.61 acre-inches
34.28 inches/acre

Process wastewater applied
11,143,560.00 gallons
410.38 acre-inches
5.13 inches/acre

Total harvests for the crop
1 harvests

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

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****Dry Manure**

Sample and source description: Dry Manure

Sample date: 06/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 20.2 %

	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	10,900.00	5,300.00	20,800.00	13,200.00	7,900.00	7,000.00	4,200.00	87.80		73.45
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1.00		1.00

Dry Manure

Sample and source description: Dry Manure

Sample date: 10/16/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 32.6 %

	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	8,000.00	5,000.00	19,900.00							62.60
DL	100.00	100.00	100.00							1.00

B. PROCESS WASTEWATER ANALYSES**1st Qtr WW**

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.82

	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	439.74	57.62	0.00	0.00	20.87	214.66								2,210.00	1,414
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

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

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

2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	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	479.13	163.09	0.00	0.00	73.71	606.05	6.40	7.30	7.20	47.50	0.00	1.20	7.50	520.00	3,329
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.01	0.01	0.01	0.10	0.10	0.02	0.10	1.00	19

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 08/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.25

	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	299.80	60.82	0.00	0.00	19.20	111.02								1,265.00	809
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 12/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.31

	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	389.60	100.00	0.00	0.00	57.30	313.19								2,972.00	1,902
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Barn

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

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

Barn**Barn**

Sample description: Barn

Sample date: 12/13/2023 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	0.50										1,120.00	
DL	0.10										10.00	

Canal**Canal**

Sample description: Canal

Sample date: 08/16/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										20.00	
DL	0.10										1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 11/01/2022: Wheat, silage, soft dough

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

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

1 - 11/01/2022: Wheat, silage, soft dough

1

Sample and source description: 1

Sample date: 05/26/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,300.00	3,200.00	27,100.00		10.39
DL	100.00	100.00	100.00		1.00

1 - 06/01/2023: Corn, silage

1

Sample and source description: 1

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,000.00	3,800.00	19,800.00		5.54
DL	100.00	100.00	100.00		1.00

2 - 11/01/2022: Wheat, silage, boot stage

2

Sample and source description: 2

Sample date: 05/26/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,000.00	3,000.00	35,300.00		12.77
DL	100.00	100.00	100.00		1.00

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

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

2 - 06/01/2023: Corn, silage

2

Sample and source description: 2

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,400.00	3,700.00	20,100.00		7.36
DL	100.00	100.00	100.00		1.00

3 - 11/01/2022: Wheat, silage, boot stage

3

Sample and source description: 3

Sample date: 05/26/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,200.00	2,600.00	19,200.00		9.09
DL	100.00	100.00	100.00		1.00

3 - 06/01/2023: Corn, silage

3

Sample and source description: 3

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,000.00	3,800.00	22,800.00		7.47
DL	100.00	100.00	100.00		1.00

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

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

4 - 11/01/2022: Wheat, silage, boot stage

4

Sample and source description: 4

Sample date: 05/26/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,800.00	4,100.00	31,700.00		11.20
DL	100.00	100.00	100.00		1.00

4 - 06/01/2023: Corn, silage

4

Sample and source description: 4

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,700.00	4,000.00	24,600.00		6.28
DL	100.00	100.00	100.00		1.00

5 - 11/01/2022: Wheat, silage, boot stage

5

Sample and source description: 5

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	3,200.00	28,500.00		9.85
DL	100.00	100.00	100.00		1.00

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

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

5 - 06/01/2023: Corn, silage

5

Sample and source description: 5

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,000.00	3,500.00	21,000.00		8.66
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

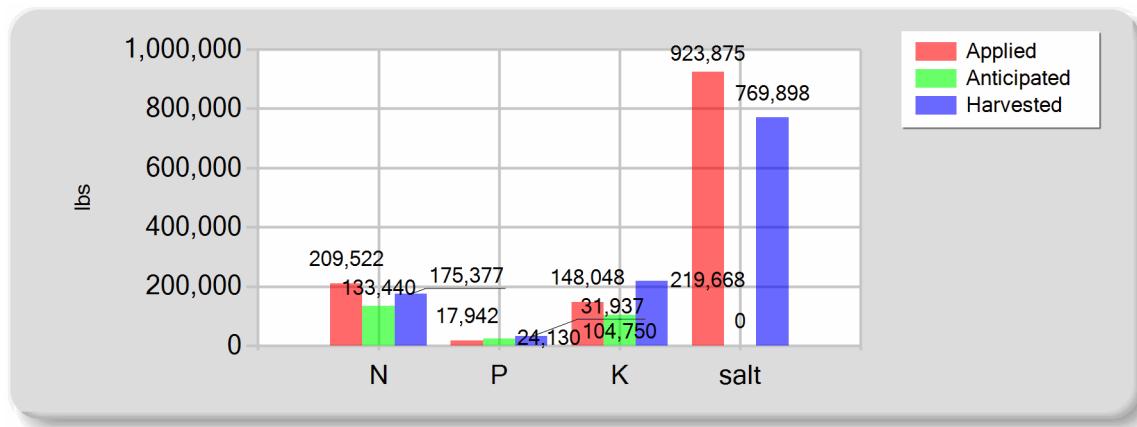
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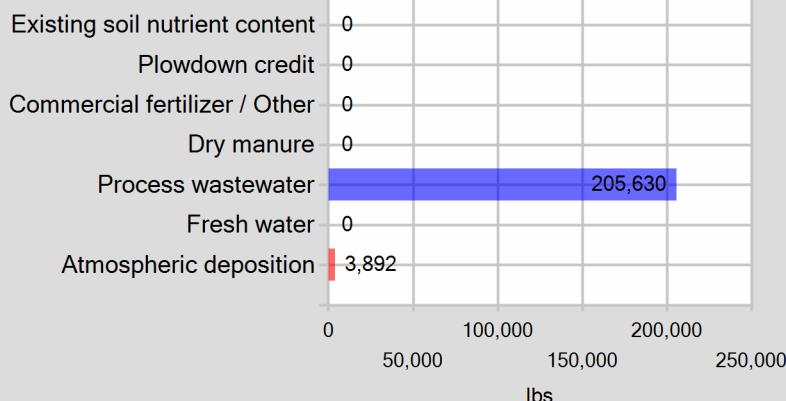
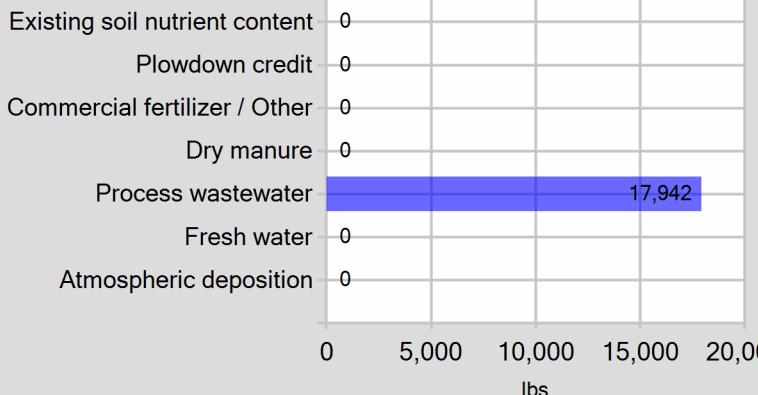
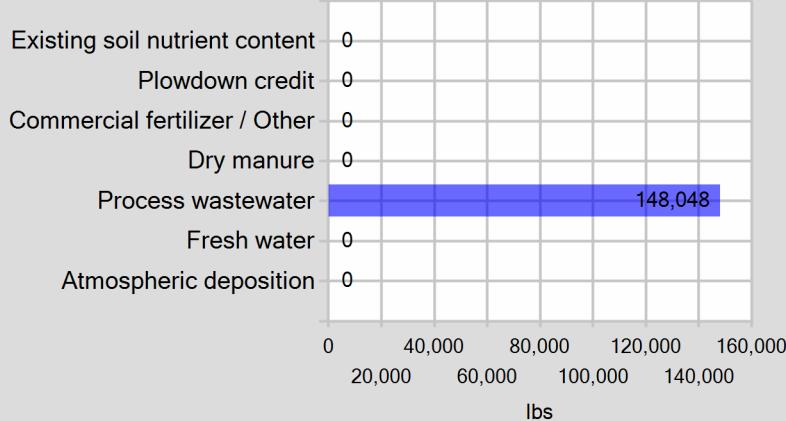
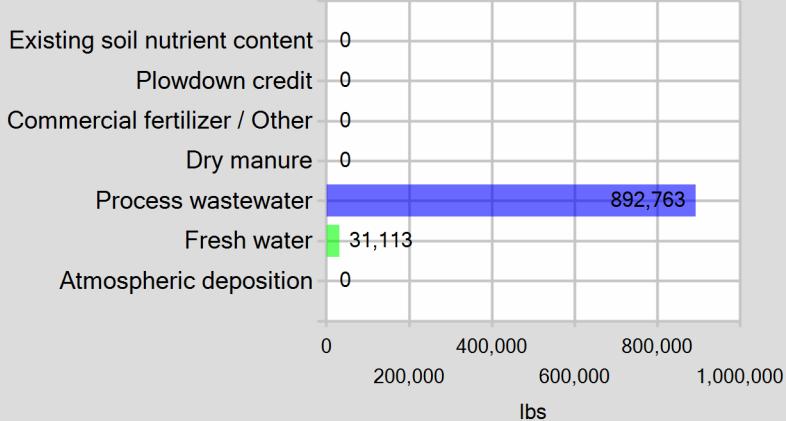
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	205,629.76	17,942.41	148,048.31	892,762.62
Fresh water	0.00	0.00	0.00	31,112.65
Atmospheric deposition	3,892.00	0.00	0.00	0.00
Total nutrients applied	209,521.76	17,942.41	148,048.31	923,875.27
Anticipated crop nutrient removal	133,440.00	24,130.40	104,750.40	0.00
Actual crop nutrient removal	175,376.89	31,937.31	219,668.06	769,898.45
Nutrient balance	34,144.87	-13,994.90	-71,619.75	153,976.82
Applied to removed ratio	1.19	0.56	0.67	1.20

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**

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

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? No

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

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

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

ADDITIONAL NOTES

A. NOTES

Wells were all negative for Ammonia which we tested onsite using a test strip .

We had an extremely wet year and had early flood release water and then Canal water thru the whole year so no wells were turned on .

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

Tony Sozinho

PRINT OR TYPE NAME

6/18/24

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

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.

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies
General Order No. R5-2007-0035, Attachment D

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/process wastewater 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: Brian Mello

Name of Dairy Facility: Sozinho Jerseys

Facility Address:

4615 Excelsior AVE Number and Street	Hanford City	Kings County	93230 Zip Code
---	-----------------	-----------------	-------------------

Contact Person Name and Phone Number:	<u>Brian Mello</u> Name	(559) 816-2965 Phone Number
---------------------------------------	----------------------------	--------------------------------

MANURE HAULER INFORMATION

Name of Hauling Company/Person: B Mello Ag

Address of Hauling Company/Person:

5771 7th AVE Number and Street	Hanford City	CA State	93230 Zip Code
-----------------------------------	-----------------	-------------	-------------------

Contact Person:	<u>Brian Mello</u> Name	(559) 816-3889 Phone Number
-----------------	----------------------------	--------------------------------

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Broker

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

B Mello Ag Service Name	(559) 816-3889 Phone Number
----------------------------	--------------------------------

5771 7th Address	Hanford City	CA State	93230 Zip Code
---------------------	-----------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

Address	Hanford City	93230 Zip Code
---------	-----------------	-------------------

7th Street and nearest cross street (if no address)	Kings County
--	-----------------

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 10/15/2023

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

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 3,000.00 tons

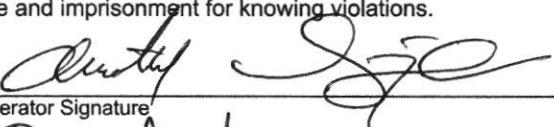
Manure Solids Content: 67.4 %

Method used to determine amount of manure:

Weighted Average

CERTIFICATION

I declare under 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 Signature

6/18/24
Date


Hauler Signature

6/18/24
Date



Sozinho Jerseys
4615 Excelsior Ave
Hanford, CA 93230

Account# 00-0025833
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31
Reported: 08/23/2023 14:44

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1587-01	Canal	Ag Water			08/16/2023 15:50

Default Cooler Temperature on Receipt °C: 3.1
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sozinho Jerseys
4615 Excelsior Ave
Hanford, CA 93230

Account# 00-0025833
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31
Reported: 08/23/2023 14:44

Sample Results

Sample: Canal
23H1587-01 (Water)

Sampled: 8/16/2023 15:50

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.02	mmhos/cm	0.01	1		08/18/23 17:23	SM 2510 B		BEH0918
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/18/23 01:12	EPA 300.0		BEH0886

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Sozinho Jerseys
4615 Excelsior Ave
Hanford, CA 93230

Account# 00-0025833
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31
Reported: 08/23/2023 14:44

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0886									
Blank (BEH0886-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
Blank (BEH0886-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
Blank (BEH0886-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/17/2023 Analyzed: 8/18/2023				
LCS (BEH0886-BS1)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	97.8	90-110			
LCS (BEH0886-BS2)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	98.4	90-110			
Duplicate (BEH0886-DUP1)									
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L	0.2			0.475	10	
Duplicate (BEH0886-DUP2)									
Nitrate Nitrogen as NO3N	5.8	0.1	mg/L	5.8			0.172	10	
Matrix Spike (BEH0886-MS1)									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.2	99.6	90-110		
Matrix Spike (BEH0886-MS2)									
Nitrate Nitrogen as NO3N	10.8	0.1	mg/L	5.000	5.8	98.9	90-110		
Reference (BEH0886-SRM1)									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.8	90-110		
Reference (BEH0886-SRM2)									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		
Reference (BEH0886-SRM3)									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		

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Sozinho Jerseys
4615 Excelsior Ave
Hanford, CA 93230

Account# 00-0025833
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31
Reported: 08/23/2023 14:44

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0918									
Blank (BEH0918-BLK1)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0918-BLK2)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0918-BLK3)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Duplicate (BEH0918-DUP1)									
Electrical Conductivity	0.02		0.01	mmhos/cm	Source: 23H1497-03	Prepared: 8/17/2023 Analyzed: 8/18/2023	0.02	9.30	10
Duplicate (BEH0918-DUP2)									
Electrical Conductivity	0.02		0.01	mmhos/cm	Source: 23H1590-01	Prepared: 8/17/2023 Analyzed: 8/18/2023	0.02	0.00	10
Reference (BEH0918-SRM1)									
Electrical Conductivity	511			umhos/cm	538.0	Prepared: 8/17/2023 Analyzed: 8/18/2023	94.9	90-110	
Reference (BEH0918-SRM3)									
Electrical Conductivity	956			umhos/cm	1000	Prepared: 8/17/2023 Analyzed: 8/18/2023	95.6	90-110	
Reference (BEH0918-SRM4)									
Electrical Conductivity	956			umhos/cm	1000	Prepared: 8/17/2023 Analyzed: 8/18/2023	95.6	90-110	
Reference (BEH0918-SRM5)									
Electrical Conductivity	971			umhos/cm	1000	Prepared: 8/17/2023 Analyzed: 8/18/2023	97.1	90-110	

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08/17/23 08:31

23H1587

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>									
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest				
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>				
Samples Preserved with HNO ₃ or H ₂ SO ₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory									
Type of Container(s) Received	Sample Number								
	1	2	3	4	5	6	7	8	9
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)									
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)								
	250 mL unpreserved (White) Plastic								
	250 mL HNO ₃ (Red) Plastic								
	* pH Value								
	250 mL H ₂ SO ₄ (Yellow) Plastic								
	* pH Value								
	500 mL unpreserved (White) Plastic								
Special	1 L unpreserved (White) Plastic	I							
	1 L unpreserved (BOD) (Purple) Plastic								
	500mL unpreserved (White) Glass								
PO4-P Kit									
Other:									
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)									
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)								
	250 mL unpreserved (White) Plastic								
	250 mL HNO ₃ (Red) Plastic								
	250 mL H ₂ SO ₄ (Yellow) Plastic								
	500 mL HNO ₃ (Red)								
	1 L unpreserved (White) Plastic								
	1 L unpreserved (BOD) (Purple) Plastic								
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)								
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)								
	40mL AG VOA unpreserved (White) (Set of 3)								
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)								
	40mL VOA, H ₃ PO ₄ (Set of 3)								
	40 mL VOA, HCl (Blue) (Set of 3)								
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)								
Glass	250 mL AG unpreserved (White)								
	250 mL AG H ₂ SO ₄ (Yellow)								
	250 mL AG Na ₂ S ₂ O ₃ (Green)								
	250 mL AG Na ₂ S ₂ O ₃ + MCAA								
	500 mL glass unpreserved (White)								
	500 mL AG HCl (Blue)								
	1 L AG unpreserved (White)								
Special	1 L AG H ₂ SO ₄ (Yellow)								
	1 L AG Na ₂ S ₂ O ₃ (Green)								
	1 L AG HCl (Blue)								
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃								
	Cyanide - 500 mL NaOH								
	Asbestos - 1L P wrapped in foil (Set of 2)								
	Sulfide - 1 L AG or P NaOH + ZnAc								
Chlorite/Bromate - 250 mL AG with EDA									
HAA5 - 250mL AG Ammonium Chlorite									
DO KIT									
Other:									



Sozinho #5
12252 7th Ave
Hanford, CA 93230

Account# 00-0025831
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 15:17

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1605-01	Canal	Ag Water			08/16/2023 15:50

Default Cooler Temperature on Receipt °C: 0.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sozinho #5
12252 7th Ave
Hanford, CA 93230

Account# 00-0025831
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 15:17

Sample Results

Sample: Canal
23H1605-01 (Water)

Sampled: 8/16/2023 15:50

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.02	mmhos/cm	0.01	1		08/18/23 17:57	SM 2510 B		BEH0919
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/18/23 13:30	EPA 300.0		BEH0887

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Sozinho #5
12252 7th Ave
Hanford, CA 93230

Account# 00-0025831
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 15:17

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0887									
Blank (BEH0887-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0887-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/17/2023 Analyzed: 8/18/2023				
LCS (BEH0887-BS1)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		102	90-110		
Duplicate (BEH0887-DUP1)									
Nitrate Nitrogen as NO3N	0.7	0.1	mg/L		0.7			0.151	10
Matrix Spike (BEH0887-MS1)									
Nitrate Nitrogen as NO3N	6.0	0.1	mg/L	5.000	0.7	106	90-110		
Reference (BEH0887-SRM1)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Reference (BEH0887-SRM2)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		

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Sozinho #5
12252 7th Ave
Hanford, CA 93230

Account# 00-0025831
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 15:17

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0919									
Blank (BEH0919-BLK1)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0919-BLK2)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0919-BLK3)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Duplicate (BEH0919-DUP1)									
Electrical Conductivity	0.02		0.01	mmhos/cm	Source: 23H1632-01 Prepared: 8/17/2023 Analyzed: 8/18/2023	0.02		6.30	10
Duplicate (BEH0919-DUP2)									
Electrical Conductivity	0.47		0.01	mmhos/cm	Source: 23H1667-01 Prepared: 8/17/2023 Analyzed: 8/18/2023	0.47		0.466	10
Reference (BEH0919-SRM1)									
Electrical Conductivity	517			umhos/cm	538.0	96.1	90-110		
Reference (BEH0919-SRM3)									
Electrical Conductivity	981			umhos/cm	1000	98.1	90-110		
Reference (BEH0919-SRM4)									
Electrical Conductivity	990			umhos/cm	1000	99.0	90-110		
Reference (BEH0919-SRM5)									
Electrical Conductivity	994			umhos/cm	1000	99.4	90-110		

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08/17/23 08:38

23H1605

WATER WORK REQUEST

Acct No. 25831 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client	Sozinho #5
Address	12252 7th Ave
City, State, Zip	Hanford CA 93230
Email	joesozinho@gmail.com

Copy to: mel_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility:

Date sampled _____

Sampled by _____

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

1.	(anal)	Sampled From:
2.		Sampled From:
3.		Sampled From:
4.		Sampled From:
5.		Sampled From:
6.		Sampled From:
7.		Sampled From:
8.		Sampled From:
9.		Sampled From:
10.		Sampled From:

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Mark</u>	Medevac		8/16/23 4:35pm
Second	<u>Sam Nyle</u>	OHS	8/16/23 4:35pm	8/16/23
Third	MM	DLI	8/17/23 8:38	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue payments will be charged a delayed damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Deltalabs Laboratory Inc. it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (CAL). If the dispute is not resolved in mediation, then

The parties shall make every effort to resolve disputes amicably. If no resolution can be reached, either party may file a complaint with the appropriate state or federal court. The parties shall not commence any legal action without first attempting to resolve the dispute through mediation. The parties shall select a mediator from the list of mediators provided by the American Arbitration Association. The mediator shall be responsible for scheduling the mediation session and shall facilitate the resolution of the dispute. The parties shall bear their own costs of mediation, unless otherwise agreed upon by the mediator.

<i>Invoicing Information:</i>	<i>Shipping</i>		
Medeiros Pricing 2023	\$ _____ In		
Sampling Hrs _____ Miles _____ Consulting _____	\$ _____ Out		
<hr/>	<hr/>		
Amt Paid	Rec By	Check No.	Date

Sample received in cooler with ice?

Sample received in October 1940.

cti update 2020

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

BL

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
Container: Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO ₃ or H ₂ SO ₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory										
Type of Container(s) Received	Sample Number									
	1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
1 L unpreserved (White) Plastic	1									
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
Glass	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
Special	1 L AG HCl (Blue)									
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
DO KIT										
Other:										