

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 Dairy #5

Physical address of dairy:

7205 Houston AVE

Number and Street

Hanford

City

Kings

County

93230

Zip Code

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

Date facility was originally placed in operation: 01/01/1970Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0016-0020-0011-00000016-0020-0019-00000016-0200-0005-00000016-0200-0028-00000016-0200-0035-00000016-0200-0041-0000**B. OPERATORS**

Sozinho, Joe

Operator name: Sozinho, JoeTelephone no.: (559) 381-3920

Landline

Cellular

12252 7th AVE

Mailing Address Number and Street

Hanford

City

CA

State

93230

Zip Code

This operator is responsible for paying permit fees.**C. OWNERS**

Sozinho, Joe

Legal owner name: Sozinho, JoeTelephone no.: (559) 381-3920

Landline

Cellular

12252 7th AVE

Mailing Address Number and Street

Hanford

City

CA

State

93230

Zip Code

This owner is responsible for paying permit fees.

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	85	200	185	200	200
Number under roof	1,085	0	0	0	0	0
Maximum number	1,085	85	200	185	200	200
Average number	1,085	85	200	185	200	200
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Jersey

Average milk production: 67 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 33,928.31 tons per reporting period

Total nitrogen from manure: 431,381.74 lbs per reporting period

After ammonia losses (30% loss applied): 301,967.22 lbs per reporting period

Total phosphorus from manure: 70,361.72 lbs per reporting period

Total potassium from manure: 205,648.98 lbs per reporting period

Total salt from manure: 530,418.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 32,965,000 gallons

Total nitrogen generated: 135,808.76 lbs

Total phosphorus generated: 18,084.58 lbs

Total potassium generated: 105,268.76 lbs

Total salt generated: 726,027.60 lbs

32,965,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 32,965,000 gallons generated

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

No solid nutrient exports entered.

No liquid nutrient exports entered.

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
1H	10	10	1	process wastewater	X016-X200-X035-XXXX
2H	58	58	2	process wastewater	X016-X200-X035-XXXX
3H	35	35	2	process wastewater	X016-X200-X055-XXXX X016-X200-X056-XXXX
4H	20	20	2	process wastewater	X016-X200-X028-XXXX
5H	4	4	1	process wastewater	X016-X200-X028-XXXX
6H	47	47	2	process wastewater	X016-X200-X041-XXXX
7H	49	49	2	process wastewater	X016-X200-X041-XXXX
Totals for areas that were used for application	223	223	12		
Totals for areas that were not used for application					
Land application area totals	223	223	12		

B. CROPS AND HARVESTS

1H

Field name: 1H

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

Crop: Wheat, silage, boot stage Acres planted: 10 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 (%)
05/12/2023	175.20 ton	Dry-weight		61.2	15,800.00	3,800.00	23,500.00		8.75

	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	17.52	214.81	51.66	319.49	1,189.61

2H

Field name: 2H

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

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

2H

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

Crop: Wheat, silage, boot stage Acres planted: 58 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 (%)
05/12/2023	996.50 ton	Dry-weight		61.4	16,900.00	4,000.00	21,500.00		9.30

	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	17.18	224.16	53.06	285.17	1,233.53

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 58 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 (%)
08/18/2023	1,173.61 ton	Dry-weight		71.3	22,100.00	3,300.00	24,400.00		8.61

	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	20.23	256.68	38.33	283.40	1,000.02

3H

Field name: 3H

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

Crop: Wheat, silage, boot stage Acres planted: 35 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 (%)
05/09/2023	630.20 ton	Dry-weight		69.0	29,900.00	4,200.00	25,800.00		11.12

	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	18.01	333.79	46.89	288.02	1,241.39

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

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

3H

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 35 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 (%)
09/12/2023	772.49 ton	Dry-weight		71.2	23,500.00	3,400.00	23,600.00		9.25

	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	22.07	298.75	43.22	300.03	1,175.95

4H

Field name: 4H

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

Crop: Wheat, silage, boot stage Acres planted: 20 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 (%)
05/09/2023	273.09 ton	Dry-weight		63.5	15,400.00	3,900.00	23,200.00		9.51

	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	13.65	153.50	38.87	231.25	947.94

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 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 (%)
09/11/2023	357.42 ton	Dry-weight		71.8	22,100.00	3,200.00	23,100.00		8.27

	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	17.87	222.75	32.25	232.83	833.55

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

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

5H

Field name: 5H

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

Crop: Wheat, silage, boot stage Acres planted: 4 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 (%)
05/09/2023	95.20 ton	Dry-weight		68.4	16,800.00	5,000.00	30,400.00		9.90

	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	23.80	252.70	75.21	457.26	1,489.12

6H

Field name: 6H

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

Crop: Wheat, silage, boot stage Acres planted: 47 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 (%)
05/09/2023	630.87 ton	Dry-weight		60.3	15,300.00	3,700.00	23,900.00		8.54

	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	13.42	163.06	39.43	254.72	910.17

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 47 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 (%)
09/11/2023	1,291.31 ton	Dry-weight		69.8	18,900.00	3,000.00	23,100.00		7.73

	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	27.47	313.64	49.78	383.34	1,282.77

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

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

7H

Field name: 7H

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

Crop: Wheat, silage, boot stage Acres planted: 49 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 (%)
05/09/2023	576.38 <i>ton</i>	Dry-weight		60.8	13,600.00	3,800.00	21,900.00		10.74

	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	11.76	125.42	35.04	201.96	990.45

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 49 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 (%)
08/28/2023	1,261.93 <i>ton</i>	Dry-weight		70.5	21,500.00	3,600.00	23,500.00		8.75

	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	25.75	326.69	54.70	357.07	1,329.53

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

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

NUTRIENT BUDGET

A. LAND APPLICATIONS

1H - 11/01/2022: Wheat, silage, boot stage

Field name: 1H

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		
12/22/2022	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	128.23	15.12	92.18	528.66	250,000.00 <i>gal</i>
Application event totals		128.23	15.12	92.18	528.66	
01/15/2023	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	9.16	914,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.16	
02/14/2023	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	128.23	15.12	92.18	528.66	250,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	9.16	914,400.00 <i>gal</i>
Application event totals		128.23	15.12	92.18	537.81	
03/14/2023	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	9.16	914,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.16	

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

Field name: 2H

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
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/15/2023	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
WW	Process wastewater	145.92	17.20	104.89	601.57	1,650,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.13	3,550,000.00 <i>gal</i>
Application event totals		145.92	17.20	104.89	607.70	
02/13/2023	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
Canal	Surface water	0.00	0.00	0.00	6.13	3,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.13	
03/14/2023	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	145.92	17.20	104.89	601.57	1,650,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.13	3,550,000.00 <i>gal</i>
Application event totals		145.92	17.20	104.89	607.70	

2H - 06/01/2023: Corn, silage

Field name: 2H

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/19/2023	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	11.31	6,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	

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

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

2H - 06/01/2023: Corn, silage

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	11.31	6,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	8.76	1.85	8.34	64.73	185,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 <i>gal</i>
Application event totals		8.76	1.85	8.34	76.04	
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
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	87.65	18.46	83.36	647.34	1,850,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 <i>gal</i>
Application event totals		87.65	18.46	83.36	658.65	
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
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	

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

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

2H - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
07/30/2023	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	87.65	18.46	83.36	647.34	1,850,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	11.31	6,550,000.00 <i>gal</i>
Application event totals			87.65	18.46	83.36	658.65	
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
WW		Process wastewater	145.59	6.46	89.31	658.97	1,250,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	11.31	6,550,000.00 <i>gal</i>
Application event totals			145.59	6.46	89.31	670.28	

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

Field name: 3H

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)	Amount
WW	Process wastewater	80.60	9.50	57.94	332.30	550,000.00 <i>gal</i>
Application event totals		80.60	9.50	57.94	332.30	
01/14/2023	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	8.73	3,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	8.73	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	183.18	21.60	131.68	755.22	1,250,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.73	3,050,000.00 <i>gal</i>
Application event totals		183.18	21.60	131.68	763.95	
03/11/2023	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
WW	Process wastewater	183.18	21.60	131.68	755.22	1,250,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.73	3,050,000.00 <i>gal</i>
Application event totals		183.18	21.60	131.68	763.95	

3H - 06/01/2023: Corn, silage

Field name: 3H

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.02	

07/07/2023	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	70.27	14.80	66.83	518.97	895,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 <i>gal</i>
Application event totals		70.27	14.80	66.83	531.99	

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

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

3H - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/17/2023	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
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.02	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	70.27	14.80	66.83	518.97	895,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 <i>gal</i>
Application event totals		70.27	14.80	66.83	531.99	
08/07/2023	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	13.02	4,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.02	
08/17/2023	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
WW	Process wastewater	114.84	5.09	70.45	519.79	595,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 <i>gal</i>
Application event totals		114.84	5.09	70.45	532.81	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.02	

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

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

3H - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
09/07/2023	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	114.84	5.09	70.45	519.79	595,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	13.02	4,550,000.00 <i>gal</i>
Application event totals			114.84	5.09	70.45	532.81	

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

Field name: 4H

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
01/13/2023	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
WW		Process wastewater	96.17	11.34	69.13	396.49	375,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	12.82	2,560,000.00 <i>gal</i>
Application event totals			96.17	11.34	69.13	409.31	
02/14/2023	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	12.82	2,560,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	12.82	
03/16/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	96.17	11.34	69.13	396.49	375,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	12.82	2,560,000.00 <i>gal</i>
Application event totals			96.17	11.34	69.13	409.31	

4H - 06/01/2023: Corn, silage

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

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

4H - 06/01/2023: Corn, silage

Field name: 4H

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	12.82	2,560,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	12.82		
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	85.87	18.09	81.67	634.22	625,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	12.82	2,560,000.00 <i>gal</i>	
Application event totals			85.87	18.09	81.67	647.04		
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	12.82	2,560,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	12.82		
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	85.87	18.09	81.67	634.22	625,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	12.82	2,560,000.00 <i>gal</i>	
Application event totals			85.87	18.09	81.67	647.04		
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	
Canal		Surface water	0.00	0.00	0.00	12.82	2,560,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	12.82		

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

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

4H - 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	126.66	5.62	77.70	573.30	375,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	12.82	2,560,000.00 <i>gal</i>
Application event totals			126.66	5.62	77.70	586.12	
08/28/2023	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	12.82	2,560,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	12.82	
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
Canal		Surface water	0.00	0.00	0.00	12.82	2,560,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	12.82	

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

Field name: 5H

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	
01/21/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	192.34	22.68	138.27	792.98	150,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	6.88	275,000.00 <i>gal</i>
Application event totals			192.34	22.68	138.27	799.87	

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

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

5H - 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
Canal	Surface water	0.00	0.00	0.00	6.88	275,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.88	
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
Canal	Surface water	0.00	0.00	0.00	6.88	275,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.88	

6H - 11/01/2022: Wheat, silage, boot stage

Field name: 6H

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		
01/25/2023	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	103.67	12.22	74.53	427.42	950,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.63	4,050,000.00 <i>gal</i>
Application event totals		103.67	12.22	74.53	436.05	
02/23/2023	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
Canal	Surface water	0.00	0.00	0.00	8.63	4,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	8.63	

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

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

6H - 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	103.67	12.22	74.53	427.42	950,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.63	4,050,000.00 <i>gal</i>
Application event totals		103.67	12.22	74.53	436.05	

6H - 06/01/2023: Corn, silage

Field name: 6H

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/30/2023	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	10.76	5,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.76	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	125.70	26.48	119.56	928.39	2,150,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 <i>gal</i>
Application event totals		125.70	26.48	119.56	939.15	
07/20/2023	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
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.76	

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

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

6H - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/30/2023	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	125.70	26.48	119.56	928.39	2,150,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 <i>gal</i>
Application event totals		125.70	26.48	119.56	939.15	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.76	
08/20/2023	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	165.29	7.33	101.39	748.14	1,150,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 <i>gal</i>
Application event totals		165.29	7.33	101.39	758.90	
08/30/2023	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	10.76	5,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.76	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.76	

7H - 11/01/2022: Wheat, silage, boot stage

Field name: 7H

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.

7H - 11/01/2022: Wheat, silage, boot stage

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)	Amount
WW	Process wastewater	54.96	6.48	39.50	226.57	525,000.00 <i>gal</i>
Application event totals		54.96	6.48	39.50	226.57	
01/18/2023	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	54.96	6.48	39.50	226.57	525,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	4.19	2,050,000.00 <i>gal</i>
Application event totals		54.96	6.48	39.50	230.76	
02/15/2023	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
WW	Process wastewater	54.96	6.48	39.50	226.57	525,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	4.19	2,050,000.00 <i>gal</i>
Application event totals		54.96	6.48	39.50	230.76	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	4.19	2,050,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	4.19	

7H - 06/01/2023: Corn, silage

Field name: 7H

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

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

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

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

7H - 06/01/2023: Corn, silage

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	12.16	5,950,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.16	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	89.61	3.97	54.97	405.60	650,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 <i>gal</i>
Application event totals		89.61	3.97	54.97	417.76	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.16	
07/17/2023	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
WW	Process wastewater	165.44	34.85	157.35	1,221.84	2,950,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 <i>gal</i>
Application event totals		165.44	34.85	157.35	1,234.00	
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
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.16	

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

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

7H - 06/01/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
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
WW			Process wastewater	165.44	34.85	157.35	1,221.84	2,950,000.00 <i>gal</i>
Canal			Surface water	0.00	0.00	0.00	12.16	5,950,000.00 <i>gal</i>
Application event totals				165.44	34.85	157.35	1,234.00	
08/12/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water	0.00	0.00	0.00	12.16	5,950,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	12.16	

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

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

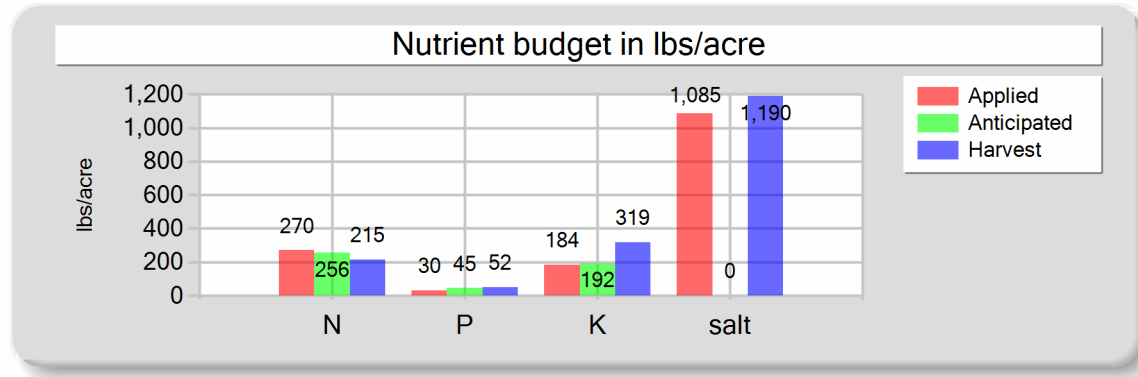
B. NUTRIENT BUDGET

1H - 11/01/2022: Wheat, silage, boot stage

Field name: 1H

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	256.46	30.24	184.35	1,057.31
Fresh water	0.00	0.00	0.00	27.47
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	270.46	30.24	184.35	1,084.78
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	214.81	51.66	319.49	1,189.61
Nutrient balance	55.65	-21.42	-135.14	-104.83
Applied to removed ratio	1.26	0.59	0.58	0.91

Fresh water applied
2,743,200.00 gallons
101.02 acre-inches
10.10 inches/acre
Process wastewater applied
500,000.00 gallons
18.41 acre-inches
1.84 inches/acre
Total harvests for the crop
1 harvests

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

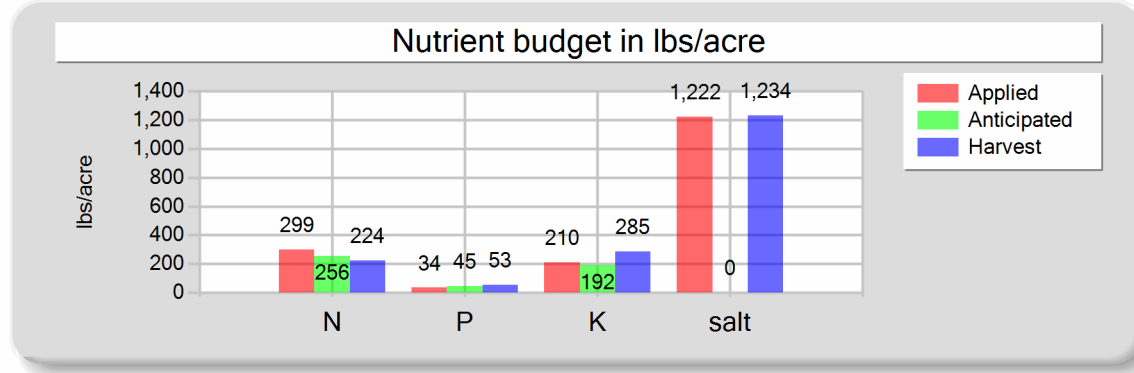
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 2H

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	291.83	34.41	209.78	1,203.15
Fresh water	0.00	0.00	0.00	18.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	298.83	34.41	209.78	1,221.54
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	224.16	53.06	285.17	1,233.53
Nutrient balance	74.67	-18.65	-75.39	-11.99
Applied to removed ratio	1.33	0.65	0.74	0.99

Fresh water applied
10,650,000.00 <i>gallons</i>
392.20 <i>acre-inches</i>
6.76 <i>inches/acre</i>

Process wastewater applied
3,300,000.00 <i>gallons</i>
121.53 <i>acre-inches</i>
2.10 <i>inches/acre</i>

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

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

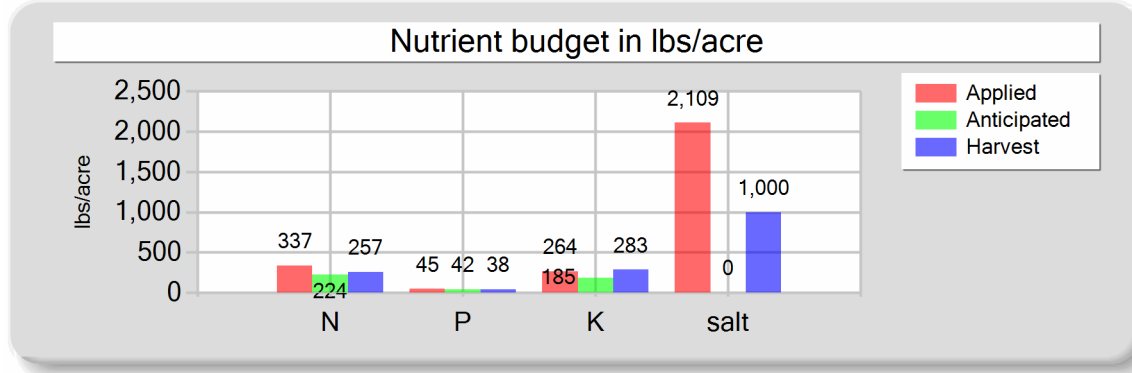
Reporting period 01/01/2023 to 12/31/2023.

2H - 06/01/2023: Corn, silage

Field name: 2H

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	329.65	45.23	264.37	2,018.39
Fresh water	0.00	0.00	0.00	90.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	336.65	45.23	264.37	2,108.86
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	256.68	38.33	283.40	1,000.02
Nutrient balance	79.97	6.90	-19.03	1,108.83
Applied to removed ratio	1.31	1.18	0.93	2.11

Fresh water applied
52,400,000.00 <i>gallons</i>
1,929.71 <i>acre-inches</i>
33.27 <i>inches/acre</i>

Process wastewater applied
5,135,000.00 <i>gallons</i>
189.10 <i>acre-inches</i>
3.26 <i>inches/acre</i>

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

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

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

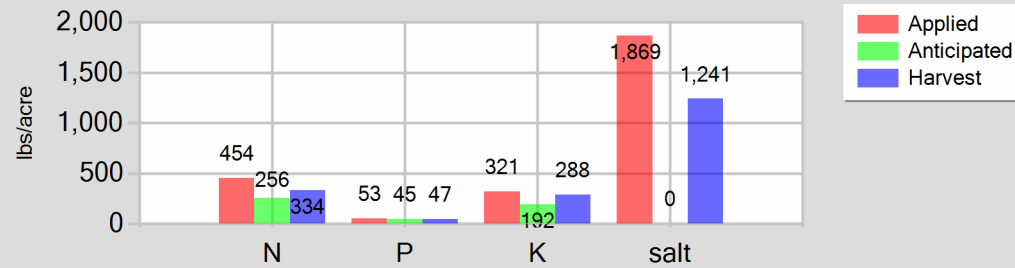
3H - 11/01/2022: Wheat, silage, boot stage

Field name: 3H

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	446.97	52.70	321.30	1,842.74
Fresh water	0.00	0.00	0.00	26.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	453.97	52.70	321.30	1,868.92
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	333.79	46.89	288.02	1,241.39
Nutrient balance	120.18	5.81	33.28	627.54
Applied to removed ratio	1.36	1.12	1.12	1.51

Fresh water applied
9,150,000.00 <i>gallons</i>
336.96 <i>acre-inches</i>
9.63 <i>inches/acre</i>
Process wastewater applied
3,050,000.00 <i>gallons</i>
112.32 <i>acre-inches</i>
3.21 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

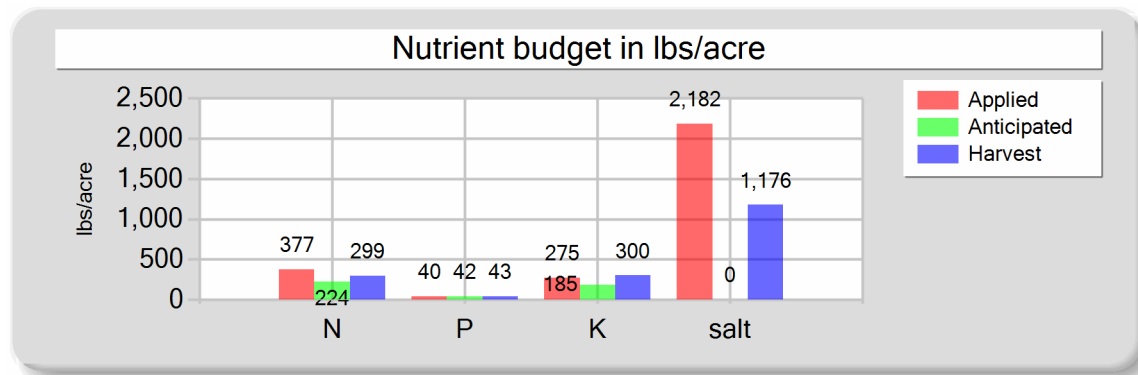
Reporting period 01/01/2023 to 12/31/2023.

3H - 06/01/2023: Corn, silage

Field name: 3H

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	36,400,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,340.49 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.30 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	370.22	39.79	274.56	2,077.53	Process wastewater applied
Fresh water	0.00	0.00	0.00	104.15	2,980,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	109.74 <i>acre-inches</i>
Total nutrients applied	377.22	39.79	274.56	2,181.68	3.14 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	298.75	43.22	300.03	1,175.95	Total harvests for the crop
Nutrient balance	78.46	-3.43	-25.47	1,005.73	1 <i>harvests</i>
Applied to removed ratio	1.26	0.92	0.92	1.86	

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

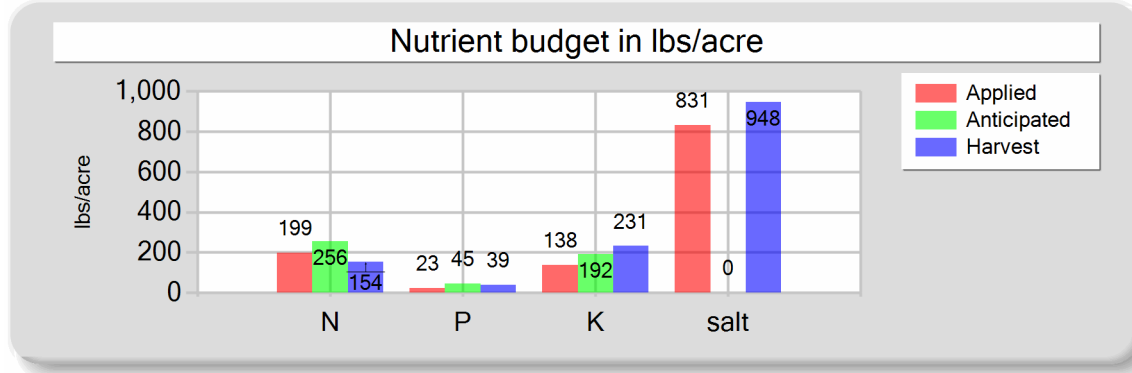
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 4H

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	192.34	22.68	138.27	792.98
Fresh water	0.00	0.00	0.00	38.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	199.34	22.68	138.27	831.44
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	153.50	38.87	231.25	947.94
Nutrient balance	45.84	-16.20	-92.99	-116.50
Applied to removed ratio	1.30	0.58	0.60	0.88

Fresh water applied
7,680,000.00 gallons
282.83 acre-inches
14.14 inches/acre

Process wastewater applied
750,000.00 gallons
27.62 acre-inches
1.38 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.

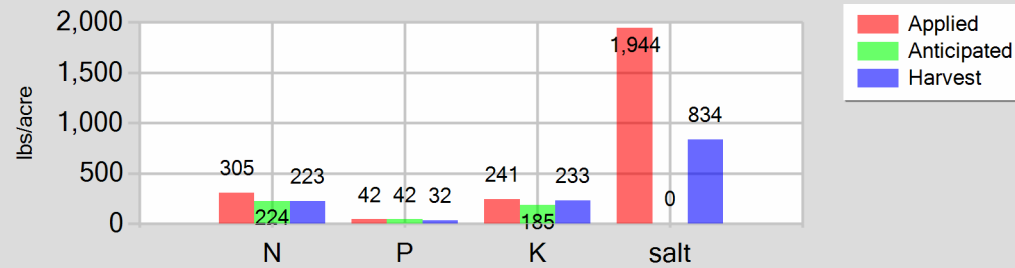
4H - 06/01/2023: Corn, silage

Field name: 4H

Crop: Corn, silage

Plant date: 06/01/2023

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	298.41	41.80	241.05	1,841.74
Fresh water	0.00	0.00	0.00	102.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.41	41.80	241.05	1,944.28
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	222.75	32.25	232.83	833.55
Nutrient balance	82.66	9.54	8.22	1,110.73
Applied to removed ratio	1.37	1.30	1.04	2.33

Fresh water applied
20,480,000.00 gallons
754.21 acre-inches
37.71 inches/acre

Process wastewater applied
1,625,000.00 gallons
59.84 acre-inches
2.99 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.

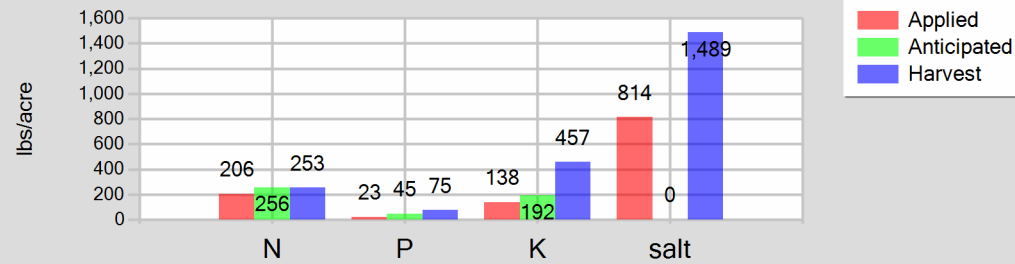
5H - 11/01/2022: Wheat, silage, boot stage

Field name: 5H

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	192.34	22.68	138.27	792.98
Fresh water	0.00	0.00	0.00	20.65
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	206.34	22.68	138.27	813.64
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	252.70	75.21	457.26	1,489.12
Nutrient balance	-46.35	-52.53	-319.00	-675.48
Applied to removed ratio	0.82	0.30	0.30	0.55

Fresh water applied
825,000.00 gallons
30.38 acre-inches
7.60 inches/acre
Process wastewater applied
150,000.00 gallons
5.52 acre-inches
1.38 inches/acre
Total harvests for the crop
1 harvests

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

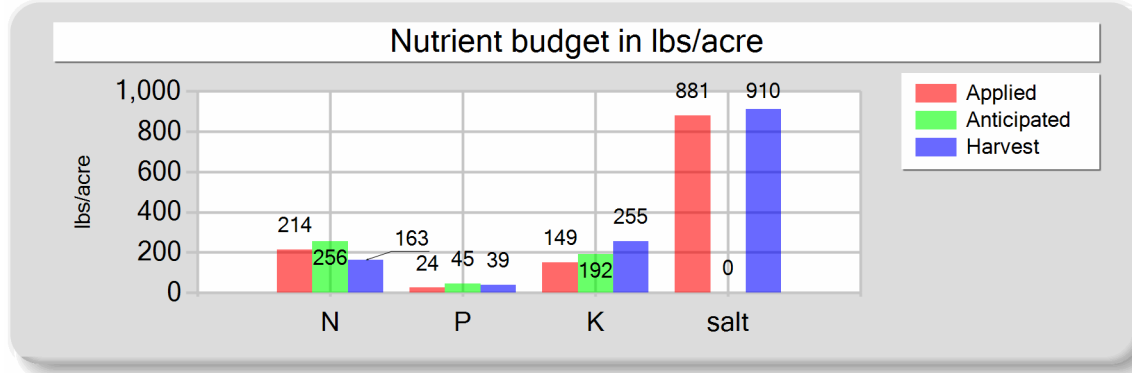
Reporting period 01/01/2023 to 12/31/2023.

6H - 11/01/2022: Wheat, silage, boot stage

Field name: 6H

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	207.35	24.45	149.05	854.85
Fresh water	0.00	0.00	0.00	25.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	214.35	24.45	149.05	880.73
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	163.06	39.43	254.72	910.17
Nutrient balance	51.29	-14.99	-105.67	-29.43
Applied to removed ratio	1.31	0.62	0.59	0.97

Fresh water applied
12,150,000.00 gallons
447.44 acre-inches
9.52 inches/acre

Process wastewater applied
1,900,000.00 gallons
69.97 acre-inches
1.49 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.

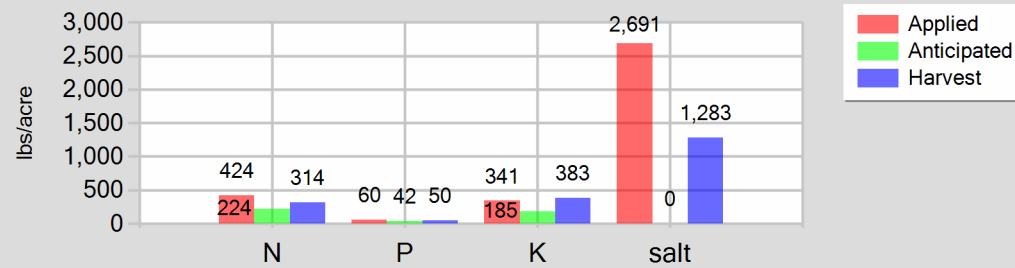
6H - 06/01/2023: Corn, silage

Field name: 6H

Crop: Corn, silage

Plant date: 06/01/2023

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	416.69	60.29	340.51	2,604.92
Fresh water	0.00	0.00	0.00	86.08
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	423.69	60.29	340.51	2,691.00
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	313.64	49.78	383.34	1,282.77
Nutrient balance	110.05	10.51	-42.83	1,408.23
Applied to removed ratio	1.35	1.21	0.89	2.10

Fresh water applied
40,400,000.00 gallons
1,487.79 acre-inches
31.66 inches/acre
Process wastewater applied
5,450,000.00 gallons
200.70 acre-inches
4.27 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.

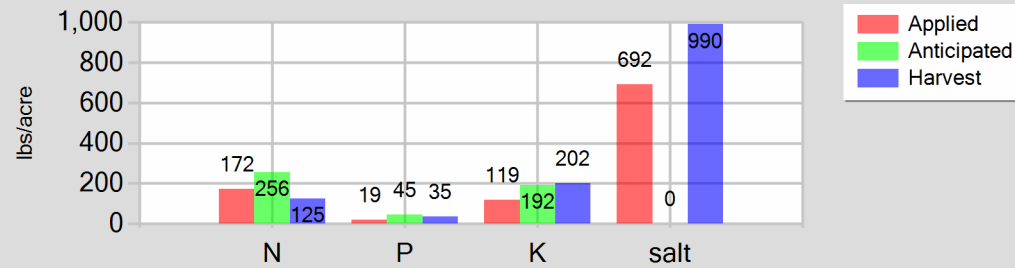
7H - 11/01/2022: Wheat, silage, boot stage

Field name: 7H

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	164.87	19.44	118.51	679.70
Fresh water	0.00	0.00	0.00	12.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	171.87	19.44	118.51	692.27
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	125.42	35.04	201.96	990.45
Nutrient balance	46.45	-15.61	-83.45	-298.18
Applied to removed ratio	1.37	0.55	0.59	0.70

Fresh water applied
6,150,000.00 gallons
226.48 acre-inches
4.62 inches/acre
Process wastewater applied
1,575,000.00 gallons
58.00 acre-inches
1.18 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.

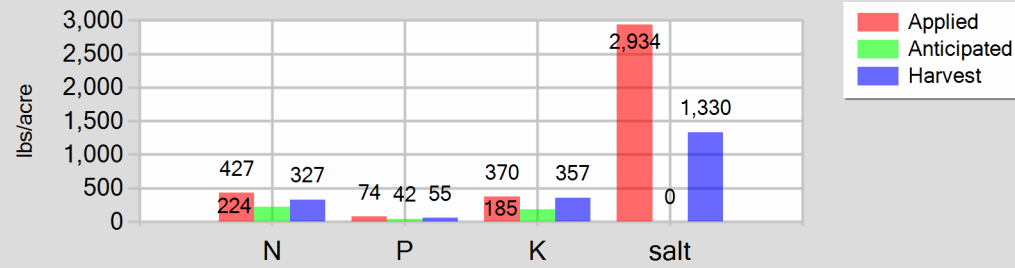
7H - 06/01/2023: Corn, silage

Field name: 7H

Crop: Corn, silage

Plant date: 06/01/2023

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	420.48	73.68	369.67	2,849.29
Fresh water	0.00	0.00	0.00	85.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	427.48	73.68	369.67	2,934.41
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	326.69	54.70	357.07	1,329.53
Nutrient balance	100.80	18.98	12.59	1,604.88
Applied to removed ratio	1.31	1.35	1.04	2.21

Fresh water applied
41,650,000.00 gallons
1,533.83 acre-inches
31.30 inches/acre
Process wastewater applied
6,550,000.00 gallons
241.21 acre-inches
4.92 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: Dry-weight

Moisture: 20.1 %

	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	11,900.00	6,800.00	24,900.00	16,000.00	9,300.00	8,600.00	5,200.00	1,093.50		70.00
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

Dry Manure

Sample and source description: Dry Manure

Sample date: 10/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 29.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	5,100.00	18,000.00							55.11
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: 7.54

	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	614.64	113.97	0.00	0.00	72.47	441.83								3,960.00	2,534
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: 7.75

	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	329.29	155.79	0.00	0.00	69.37	313.19	5.20	4.70	13.40	33.98	5.20	1.60	5.80	3,800.00	2,432
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.02	0.02	0.01	100.00	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: 7.66

	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	809.50	454.34	0.00	0.00	35.90	496.57								5,725.00	3,664
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	359.68	106.00	0.00	0.00	58.84	330.80								3,054.00	1,954
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: 12/12/2023 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										114.00	
DL	0.10										1.00	

Canal

Canal

Sample description: Canal

Sample date: 08/17/2023 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

1H - 11/01/2022: Wheat, silage, boot stage

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

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

1H - 11/01/2022: Wheat, silage, boot stage

1H

Sample and source description: 1H

Sample date: 05/09/2023 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	15,800.00	3,800.00	23,500.00		8.75
DL	100.00	100.00	100.00		1.00

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

2H

Sample and source description: 2H

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,900.00	4,000.00	21,500.00		9.30
DL	100.00	100.00	100.00		1.00

2H - 06/01/2023: Corn, silage

2H

Sample and source description: 2H

Sample date: 08/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,100.00	3,300.00	24,400.00		8.61
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.

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

3H

Sample and source description: 3H

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,900.00	4,200.00	25,800.00		11.12
DL	100.00	100.00	100.00		1.00

3H - 06/01/2023: Corn, silage

3H

Sample and source description: 3H

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,500.00	3,400.00	23,600.00		9.25
DL	100.00	100.00	100.00		1.00

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

4H

Sample and source description: 4H

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	3,900.00	23,200.00		9.51
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.

4H - 06/01/2023: Corn, silage

4H

Sample and source description: 4H

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,100.00	3,200.00	23,100.00		8.27
DL	100.00	100.00	100.00		1.00

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

5H

Sample and source description: 5H

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,800.00	5,000.00	30,400.00		9.90
DL	100.00	100.00	100.00		1.00

6H - 11/01/2022: Wheat, silage, boot stage

6H

Sample and source description: 6H

Sample date: 05/09/2023 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	15,300.00	3,700.00	23,900.00		8.54
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.

6H - 06/01/2023: Corn, silage

6H

Sample and source description: 6H

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,900.00	3,000.00	23,100.00		7.73
DL	100.00	100.00	100.00		1.00

7H - 11/01/2022: Wheat, silage, boot stage

7H

Sample and source description: 7H

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	3,800.00	21,900.00		10.74
DL	100.00	100.00	100.00		1.00

7H - 06/01/2023: Corn, silage

7H

Sample and source description: 7H

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,500.00	3,600.00	23,500.00		8.75
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

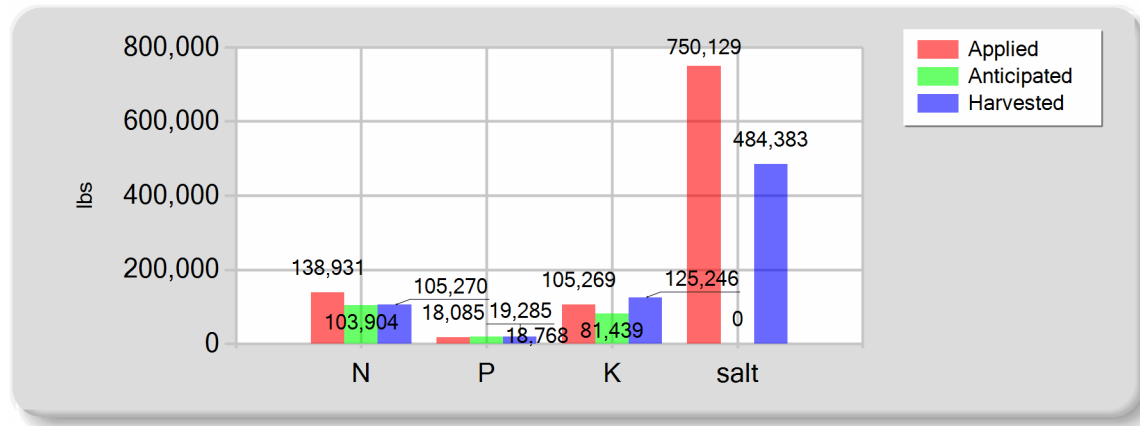
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

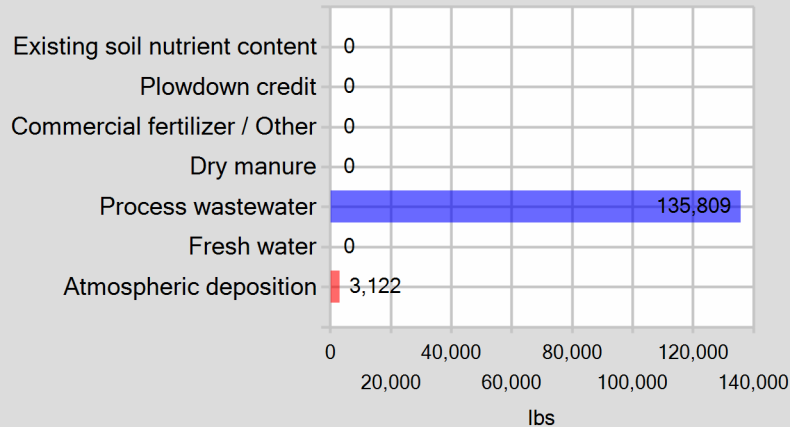
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	135,808.76	18,084.58	105,268.76	726,027.60
Fresh water	0.00	0.00	0.00	24,101.51
Atmospheric deposition	3,122.00	0.00	0.00	0.00
Total nutrients applied	138,930.76	18,084.58	105,268.76	750,129.12
Anticipated crop nutrient removal	103,904.00	18,768.40	81,439.20	0.00
Actual crop nutrient removal	105,270.10	19,284.86	125,245.80	484,382.56
Nutrient balance	33,660.66	-1,200.29	-19,977.04	265,746.56
Applied to removed ratio	1.32	0.94	0.84	1.55

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

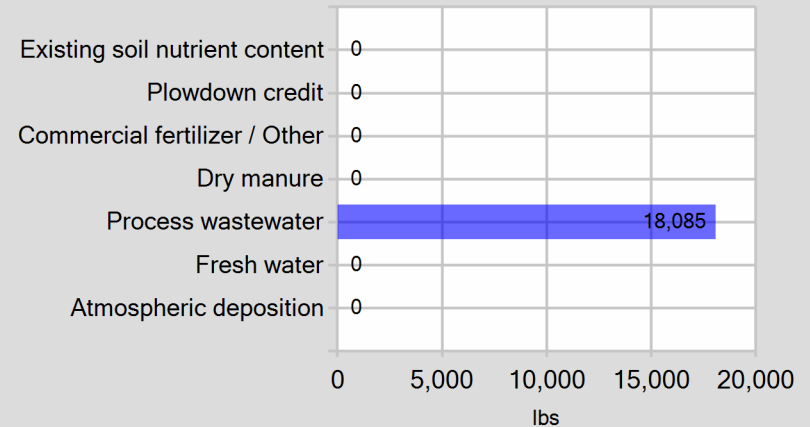


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

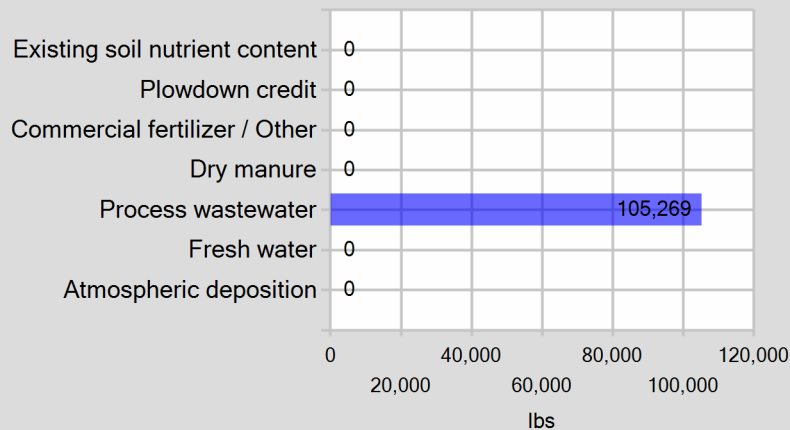
Pounds of nitrogen applied



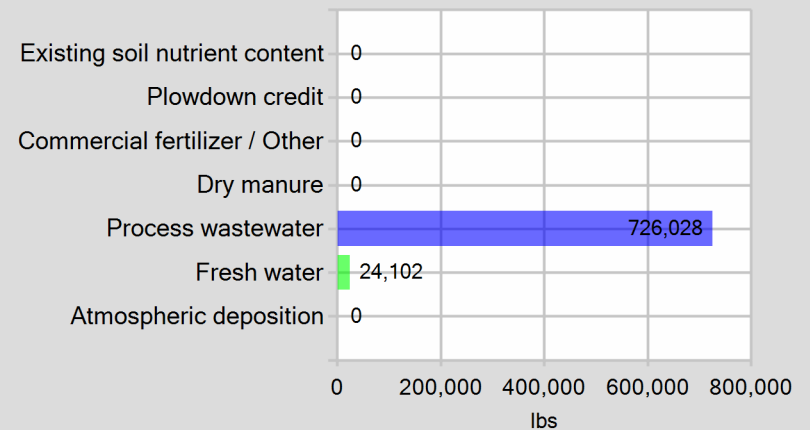
Pounds of phosphorus applied



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

All 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

Joe Sozinho

PRINT OR TYPE NAME

DATE

6-20-24

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.

Sozinho #5
12252 7th Ave
Hanford, CA 93230

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

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:13

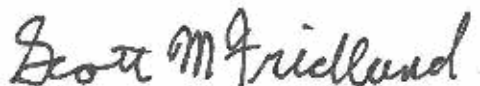
Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0690-01	Barn	Ag Water	Medeiros		12/12/2023 10:30

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

Notes and Definitions

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



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

Sozinho #5
12252 7th Ave
Hanford, CA 93230

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

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:13

Sample Results

Sample: Barn
23L0690-01 (Water)

Sampled: 12/12/2023 10:30
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.14	mmhos/cm	0.01	1		12/13/23 16:58	SM 2510 B		BEL0497
Electrical Conductivity umhos	1140	umhos/cm	10.0	1		12/13/23 16:58	SM 2510 B		BEL0497
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:30	Field		BEL0524
Nitrate Nitrogen as NO3N	0.5	mg/L	0.1	1	10	12/14/23 04:24	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/13/23 16:58	SM 4500-H+	H	BEL0497
pH	7.8	units	1.0	1		12/13/23 16:58	SM 4500-H+	H	BEL0497

Sozinho #5
12252 7th Ave
Hanford, CA 93230

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

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:13

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0446									
Blank (BEL0446-BLK1)				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0446-BLK2)				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0446-BLK3)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0446-BLK4)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0446-BLK5)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEL0446-BS1)				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000		95.9	90-110		
LCS (BEL0446-BS2)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.9	90-110		
LCS (BEL0446-BS3)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000		99.7	90-110		
LCS (BEL0446-BS4)				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.9	90-110		
Duplicate (BEL0446-DUP1)				Source: 23L0776-07		Prepared & Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	7.7	0.1	mg/L		7.6			1.53	10
Duplicate (BEL0446-DUP2)				Source: 23L0778-01		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L		0.5			1.99	10
Duplicate (BEL0446-DUP3)				Source: 23L0691-01		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.02	0.1	mg/L		0.02				10
Duplicate (BEL0446-DUP4)				Source: 23L0774-09		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L		0.03			5.71	10
Matrix Spike (BEL0446-MS1)				Source: 23L0776-07		Prepared & Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	12.7	0.1	mg/L	5.000	7.6	102	90-110		
Matrix Spike (BEL0446-MS2)				Source: 23L0778-01		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	5.3	0.1	mg/L	5.000	0.5	95.6	90-110		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Sozinho #5
12252 7th Ave
Hanford, CA 93230

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

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:13

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0446 (Continued)									
Matrix Spike (BEL0446-MS3)		Source: 23L0691-01			Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.02	96.5	90-110		
Matrix Spike (BEL0446-MS4)		Source: 23L0774-09			Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.03	95.8	90-110		
Reference (BEL0446-SRM1)					Prepared & Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00		96.9	90-110		
Reference (BEL0446-SRM2)					Prepared & Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00		96.5	90-110		
Reference (BEL0446-SRM3)					Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00		96.5	90-110		
Reference (BEL0446-SRM4)					Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.1	90-110		
Reference (BEL0446-SRM5)					Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00		95.6	90-110		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Sozinho #5
12252 7th Ave
Hanford, CA 93230

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

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:13

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0497									
Blank (BEL0497-BLK1)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.5	1.0	units						
Blank (BEL0497-BLK2)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.7	1.0	units						
Blank (BEL0497-BLK3)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
pH	7.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEL0497-DUP1)				Source: 23L0694-04		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	1.14	0.01	mmhos/cm		1.13		0.986		10
pH	7.8	1.0	units		7.8		0.129		10
Electrical Conductivity umhos	1140	10.0	umhos/cm		1130		0.986		10
Duplicate (BEL0497-DUP2)				Source: 23L0704-01		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	1.94	0.01	mmhos/cm		1.91		1.40		10
Electrical Conductivity umhos	1940	10.0	umhos/cm		1910		1.40		10
pH	7.3	1.0	units		7.4		0.815		10
Reference (BEL0497-SRM1)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	456		umhos/cm	426.0		107	90-110		
Reference (BEL0497-SRM2)				Prepared & Analyzed: 12/13/2023					
pH	7.5		units	7.520		100	67021-101.3;		
Reference (BEL0497-SRM3)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1090		umhos/cm	1000		109	90-110		
Electrical Conductivity umhos	1090		umhos/cm	1000		109	90-110		
Reference (BEL0497-SRM4)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1090		umhos/cm	1000		109	90-110		
Electrical Conductivity umhos	1090		umhos/cm	1000		109	90-110		
Reference (BEL0497-SRM5)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Sozinho #5
12252 7th Ave
Hanford, CA 93230

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

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:13

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0497 (Continued)									
Reference (BEL0497-SRM5)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
Reference (BEL0497-SRM6)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEL0497-SRM7)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEL0497-SRM8)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



12/13/23 07:00

23L0690

09

DELLAVALLE LABORATORY, INC.

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

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

Bill To: Acct No. 25831 Const. 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 medeiros☒ QA/QC Document ☒ Copy of Chain ☒ RWQCB**DESCRIPTION OF SAMPLES**

1. <u>Bain</u>	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:

Water Type: ☒ Ag Water ☐ Drinking ☐ Wastewater
☒ Supply Water ☐ Ground Water ☐ Mon. Well
No. of Samples No. Bottles**Analysis and Bottles Required: (Please Indicate Analysis)**

- ☒ EC, NO₃-N
(1) 1 L plastic, unpreserved (white)
☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
(1) 1 L plastic, unpreserved (white)
☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)
☐ DCW1: (EC, NO₃-N, TDS)
(1) 1 L plastic, unpreserved (white)
☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)
☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
12/12/23	1030am	0	19.6 / 5.2

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: LaboratoryIR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>			12/12/23 11:32AM
Second	<u>[Signature]</u>	DU	12/12/23 11:32AM	
Third	<u>[Signature]</u>	DU	12/13 04:50	
Fourth	<u>[Signature]</u>			

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:		Shipping	
Medeiros Pricing 2023		\$	In
Sampling Hrs	Miles	\$	Out
Consulting			
Ant Paid	Rec By	Check No.	Date

Signature

Sample received in cooler with ice?

[] Yes [] No

ett:update 2020



12/13/23 07:00

23L0690

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>											
<input type="checkbox"/> Samples re Fridgerated 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	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										
Special	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										
	1 L HNO ₃ (Red)										
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)										
	1 L AG H ₂ SO ₄ (Yellow)										
	1 L AG Na ₂ S ₂ O ₃ (Green)										
	1 L AG HCl (Blue)										
Special	Cr ^{VI} - 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:										
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

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 NO3N	ND	mg/L	0.1	1	10	08/18/23 13:30	EPA 300.0		BEH0887

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	%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	Prepared: 8/17/2023	Analyzed: 8/18/2023			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			

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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	%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		Prepared: 8/17/2023	Analyzed: 8/18/2023		6.30	10
Duplicate (BEH0919-DUP2)									
Electrical Conductivity	0.47	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		0.466	10
Reference (BEH0919-SRM1)									
Electrical Conductivity	517		umhos/cm	538.0	Prepared: 8/17/2023	Analyzed: 8/18/2023	96.1	90-110	
Reference (BEH0919-SRM3)									
Electrical Conductivity	981		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	98.1	90-110	
Reference (BEH0919-SRM4)									
Electrical Conductivity	990		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	99.0	90-110	
Reference (BEH0919-SRM5)									
Electrical Conductivity	994		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	99.4	90-110	

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



08/17/23 08:38

23H1605

MV

WATER WORK REQUEST

Bill To: 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. <u>(canal)</u>	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>[Signature]</u>	<u>Medeiros</u>		<u>8/16/23 4:35pm</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>8/16/23 4:35pm</u>	<u>8/16/23</u>
Third	<u>MM</u>	<u>DLI</u>	<u>8/17/23 8:38</u>	
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 accounts will be charged a dated damage fee of 2% per month (annually 24 %) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Medeiros Pricing 2023

Sampling Hrs _____ Miles _____ Consulting _____

Shipping _____ In _____ Out _____

Am't Paid _____ Rec By _____ Check No. _____ Date _____

DELLAVALLE LABORATORY, INC.

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

No. of Samples 1 No. Bottles _____

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

Analysis and Bottles Required: (Please Indicate Analysis)

- ☒ EC, NO₃-N
(1) 1 L plastic, unpreserved (white)
- ☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
(1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
(1) 1 L plastic, unpreserved (white)

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>8/16/23</u>	<u>3:50</u>		<u>0.8</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

☐ Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>8/16/23</u>	<u>3:50</u>		<u>0.8</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Signature _____

Sample received in cooler with ice?

☐ Yes ☐ No

crr:update 2020

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



08/17/23 08:38

23H1605

AN

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	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										
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
Other:											
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go into 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										
	1 L HNO ₃ (Red)										
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)										
	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:											