

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: Bidart 3

Physical address of dairy:

25820 Stockdale HWY

Number and Street

Bakersfield

City

Kern

County

93314

Zip Code

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

Date facility was originally placed in operation: 11/12/1982

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X104-X280-XX07-XXXX

B. OPERATORS

Bidart, John

Operator name: Bidart, John

Telephone no.: (661) 397-5400

Landline

Cellular

P.O. Box 11810

Bakersfield

CA

93389

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Bidart, John

Legal owner name: Bidart, John

Telephone no.: (661) 397-5400

Landline

Cellular

P.O. Box 11810

Bakersfield

CA

93389

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	425	375	0	0
Number under roof	1,230	0	0	0	0	0
Maximum number	1,240	0	435	405	0	0
Average number	1,230	0	425	375	0	0
Avg live weight (lbs)	1,000	0	700	600		

Predominant milk cow breed: Jersey-Holstein Cross

Average milk production: 60 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 37,550.25 tons per reporting period

Total nitrogen from manure: 469,563.66 lbs per reporting period

After ammonia losses (30% loss applied): 328,694.56 lbs per reporting period

Total phosphorus from manure: 79,214.35 lbs per reporting period

Total potassium from manure: 227,475.25 lbs per reporting period

Total salt from manure: 579,145.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 85,755,596 gallons

Total nitrogen generated: 178,458.44 lbs

$$\begin{array}{r} 85,755,596 \text{ gallons applied} \\ + 0 \text{ gallons exported} \\ - 0 \text{ gallons imported} \\ = 85,755,596 \text{ gallons generated} \end{array}$$

Total phosphorus generated: 31,050.28 lbs

Total potassium generated: 187,324.42 lbs

Total salt generated: 1,729,559.38 lbs

D. FRESH WATER SOURCES

Source Description	Type
2B	Ground water
3B	Ground water
6	Ground water
7	Ground water
8	Ground water

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Source Description	Type
DW-1	Ground water
DW-2	Ground water
L1E	Ground water
L1W	Ground water
Rio Bravo ID	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES*No subsurface (tile) drainage sources entered.***F. NUTRIENT IMPORTS***No dry manure nutrient imports entered.**No process wastewater nutrient imports entered.**No commercial or other nutrient imports entered.***G. NUTRIENT EXPORTS**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/23/2023	Corral solids	1,208.40 ton	Dry-weight	23.5		22,400.00	6,800.00	33,100.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	41,414.28	12,572.19	61,197.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	41,414.28	12,572.19	61,197.00	0.00

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
L1	80	80	2	process wastewater	X104-X280-XX07-XXXX
L2	78	78	2	process wastewater	X104-X280-XX07-XXXX
L3	30	30	2	process wastewater	X104-X280-XX07-XXXX
L4	50	50	2	process wastewater	X104-X280-XX07-XXXX
L5	36	36	2	process wastewater	X104-X280-XX24-XXXX X104-X280-XX27-XXXX
L6	18	18	2	process wastewater	X104-X280-XX25-XXXX
L7	23	23	2	process wastewater	X104-X250-XX19-XXXX X104-X250-XX20-XXXX X104-X280-XX24-XXXX X104-X280-XX27-XXXX
L8	44	44	2	process wastewater	X104-X250-XX21-XXXX X104-X280-XX01-XXXX X104-X280-XX02-XXXX
Totals for areas that were used for application	359	359	16		
Totals for areas that were not used for application					
Land application area totals	359	359	16		

B. CROPS AND HARVESTS

L1										
Field name: L1										
11/15/2022: Wheat, silage, soft dough										
Crop:	Wheat, silage, soft dough						Acres planted:	80	Plant date:	11/15/2022
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	
05/02/2023	1,461.00 ton	Dry-weight		63.5	14,500.00	2,900.00	10,400.00		4.66	
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)					
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00					
Total actual harvest content	18.26	193.31	38.66	138.65	621.25					

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L1

06/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	2,444.00 ton	Dry-weight		68.6	12,000.00	3,000.00	19,300.00		6.83

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	30.55	230.22	57.56	370.28	1,310.36

L2

Field name: L2

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/24/2023	1,433.00 ton	Dry-weight		69.4	16,500.00	2,300.00	12,700.00		7.17

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.37	185.52	25.86	142.79	806.16

06/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	2,362.00 ton	Dry-weight		75.5	15,400.00	3,400.00	16,000.00		7.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	30.28	228.51	50.45	237.41	1,040.16

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L3Field name: L3

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 30 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	571.00 ton	Dry-weight		70.5	17,900.00	2,300.00	13,300.00		8.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	19.03	201.01	25.83	149.35	1,005.06

06/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	918.00 ton	Dry-weight		70.5	13,000.00	3,000.00	16,100.00		5.49

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	30.60	234.70	54.16	290.67	991.16

L4Field name: L4

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 50 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	929.00 ton	Dry-weight		64.4	17,000.00	2,400.00	7,700.00		6.27

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.58	224.89	31.75	101.86	829.46

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L4

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,529.00 <i>ton</i>	Dry-weight		67.7	12,600.00	2,200.00	16,700.00		6.96

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	30.58	248.91	43.46	329.90	1,374.93

L5Field name: L5

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/26/2023	672.00 <i>ton</i>	Dry-weight		63.5	16,700.00	1,800.00	6,400.00		5.84

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	18.67	227.57	24.53	87.21	795.80

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,099.00 <i>ton</i>	Dry-weight		69.0	12,900.00	2,100.00	11,200.00		5.94

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	30.53	244.16	39.75	211.98	1,124.28

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L6Field name: L6

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 18 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	344.00 ton	Dry-weight		64.6	15,100.00	2,200.00	6,400.00		5.76

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	19.11	204.31	29.77	86.60	779.37

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	565.00 ton	Dry-weight		68.8	11,700.00	2,400.00	12,000.00		5.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	31.39	229.16	47.01	235.04	1,087.06

L7Field name: L7

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 23 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	438.00 ton	Dry-weight		68.3	17,200.00	1,800.00	10,300.00		7.29

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	19.04	207.67	21.73	124.36	880.16

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L7

06/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 23 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	712.00 <i>ton</i>	Dry-weight		72.7	14,900.00	2,600.00	8,300.00		7.06
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00 240.00 45.00 198.00				1,500.00			
Total actual harvest content		30.96 251.84 43.95 140.29				1,193.30			

L8Field name: L8

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/20/2023	821.00 <i>ton</i>	Dry-weight		70.3	18,000.00	2,200.00	12,100.00		8.26
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		18.00 198.00 30.60 149.40				1,494.00			
Total actual harvest content		18.66 199.50 24.38 134.11				915.50			

06/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	1,341.00 <i>ton</i>	Dry-weight		68.5	12,800.00	2,100.00	12,100.00		5.98
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00 240.00 45.00 198.00				1,500.00			
Total actual harvest content		30.48 245.77 40.32 232.33				1,148.20			

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

L1 - 11/15/2022: Wheat, silage, soft dough

Field name: L1

Crop: Wheat, silage, soft dough Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	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
Lagoon	Process wastewater	74.19	10.81	61.14	874.67	2,195,054.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	65.84	9,016,882.00 gal
Application event totals		74.19	10.81	61.14	940.51	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	97.93	14.27	80.70	1,154.56	2,897,446.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.29	9,215,994.00 gal
Application event totals		97.93	14.27	80.70	1,221.85	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.65	8.69	49.16	703.31	1,765,016.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	63.40	8,682,449.00 gal
Application event totals		59.65	8.69	49.16	766.71	

L1 - 06/25/2023: Corn, silage

Field name: L1

Crop: Corn, silage Plant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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L1 - 06/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	47.04	9.55	59.27	268.13	2,254,753.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.60	11,175,449.00 gal
Application event totals		47.04	9.55	59.27	349.73	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.08	11,104,648.00 gal
Application event totals		0.00	0.00	0.00	81.08	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	58.62	11.90	73.86	334.14	2,809,882.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.13	11,110,667.00 gal
Application event totals		58.62	11.90	73.86	415.27	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.96	14.00	86.89	393.07	3,305,449.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.21	11,121,557.00 gal
Application event totals		68.96	14.00	86.89	474.28	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.11	11,108,449.00 gal
Application event totals		0.00	0.00	0.00	81.11	

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L1 - 06/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.03	14.83	92.02	416.27	3,500,559.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.13	11,110,554.00 gal
Application event totals		73.03	14.83	92.02	497.40	
09/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	75.32	10,315,773.00 gal
Application event totals		0.00	0.00	0.00	75.32	

L2 - 11/12/2022: Wheat, silage, soft dough

Field name: L2

Crop: Wheat, silage, soft dough Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	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
Lagoon	Process wastewater	90.42	13.17	74.51	1,066.09	2,608,557.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	71.30	9,520,554.00 gal
Application event totals		90.42	13.17	74.51	1,137.39	
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
Lagoon	Process wastewater	72.95	10.63	60.12	860.11	2,104,557.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	70.52	9,416,445.00 gal
Application event totals		72.95	10.63	60.12	930.63	

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L2 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	62.56	9.11	51.55	737.59	1,804,773.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	70.57	9,422,459.00 gal
Application event totals		62.56	9.11	51.55	808.16	

L2 - 06/25/2023: Corn, silage

Field name: L2

Crop: Corn, silage

Plant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	66.80	13.49	83.76	378.89	3,106,554.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.25	10,715,882.00 gal
Application event totals		66.80	13.49	83.76	459.14	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.29	10,721,449.00 gal
Application event totals		0.00	0.00	0.00	80.29	
07/23/2023	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
Lagoon	Process wastewater	68.69	13.94	86.55	391.54	3,210,224.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.81	10,923,753.00 gal
Application event totals		68.69	13.94	86.55	473.35	

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L2 - 06/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	63.60	12.57	75.80	816.07	2,714,489.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.03	10,820,114.00 gal
Application event totals		63.60	12.57	75.80	897.10	
08/21/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.21	10,710,226.00 gal
Application event totals		0.00	0.00	0.00	80.21	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	63.55	12.57	75.74	815.45	2,712,448.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	79.55	10,621,449.00 gal
Application event totals		63.55	12.57	75.74	895.00	
09/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	79.46	10,610,554.00 gal
Application event totals		0.00	0.00	0.00	79.46	

L3 - 11/12/2022: Wheat, silage, soft dough

Field name: L3

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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L3 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	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
Lagoon	Process wastewater	82.70	12.05	68.15	974.99	917,550.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	58.54	3,006,559.00 gal
Application event totals		82.70	12.05	68.15	1,033.53	
01/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.03	11.95	67.60	967.20	910,224.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	58.59	3,008,951.00 gal
Application event totals		82.03	11.95	67.60	1,025.79	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.48	8.48	114.60	846.47	694,753.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	66.41	3,410,664.00 gal
Application event totals		89.48	8.48	114.60	912.88	

L3 - 06/25/2023: Corn, silage

Field name: L3

Crop: Corn, silage

Plant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	86.65	17.59	109.18	493.91	1,557,544.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.03	4,110,227.00 gal
Application event totals		86.65	17.59	109.18	573.95	

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L3 - 06/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.03	4,110,224.00 gal
Application event totals		0.00	0.00	0.00	80.03	
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
Lagoon	Process wastewater	89.41	18.15	112.66	1,363.56	1,607,201.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	82.03	4,212,559.00 gal
Application event totals		89.41	18.15	112.66	1,445.59	
08/03/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	79.99	4,107,882.00 gal
Application event totals		0.00	0.00	0.00	79.99	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.39	17.28	104.15	1,121.33	1,434,568.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	87.75	4,506,559.00 gal
Application event totals		87.39	17.28	104.15	1,209.08	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	85.93	4,412,991.00 gal
Application event totals		0.00	0.00	0.00	85.93	
09/17/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	87.82	4,509,991.00 gal
Application event totals		0.00	0.00	0.00	87.82	

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L4 - 11/13/2022: Wheat, silage, soft dough

Field name: L4

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/14/2022	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
Lagoon	Process wastewater	92.46	13.47	76.20	1,090.15	1,709,884.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	65.06	5,568,995.00 gal
Application event totals		92.46	13.47	76.20	1,155.21	
01/15/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	86.84	12.65	71.56	1,023.82	1,605,841.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.18	6,264,159.00 gal
Application event totals		86.84	12.65	71.56	1,097.00	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.31	10.68	60.41	864.34	1,355,698.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.20	6,265,664.00 gal
Application event totals		73.31	10.68	60.41	937.54	

L4 - 06/26/2023: Corn, silage

Field name: L4

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/16/2023	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
Lagoon	Process wastewater	74.97	15.22	94.46	427.30	2,245,821.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.39	5,768,445.00 gal
Application event totals		74.97	15.22	94.46	494.70	

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L4 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Rio Bravo ID	Surface water	0.00	0.00	0.00	65.05	5,567,554.00 gal
Application event totals		0.00	0.00	0.00	65.05	
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
Lagoon	Process wastewater	70.44	14.30	88.75	401.50	2,110,224.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	68.52	5,864,775.00 gal
Application event totals		70.44	14.30	88.75	470.02	
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
Rio Bravo ID	Surface water	0.00	0.00	0.00	65.01	5,564,159.00 gal
Application event totals		0.00	0.00	0.00	65.01	
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
Lagoon	Process wastewater	78.49	15.93	98.90	447.40	2,351,446.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	65.02	5,565,441.00 gal
Application event totals		78.49	15.93	98.90	512.42	
08/29/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	74.45	6,372,465.00 gal
Application event totals		0.00	0.00	0.00	74.45	

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L4 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	53.35	10.55	63.58	684.56	1,459,654.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	83.73	7,167,114.00 gal
Application event totals		53.35	10.55	63.58	768.30	
09/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	57.23	4,898,554.00 gal
Application event totals		0.00	0.00	0.00	57.23	

L5 - 11/13/2022: Wheat, silage, soft dough

Field name: L5

Crop: Wheat, silage, soft dough Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/14/2022	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
Lagoon	Process wastewater	90.01	13.11	74.17	1,061.23	1,198,456.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.41	4,154,258.00 gal
Application event totals		90.01	13.11	74.17	1,128.64	
01/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.03	11.66	65.95	943.60	1,065,621.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.28	4,454,231.00 gal
Application event totals		80.03	11.66	65.95	1,015.88	

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L5 - 11/13/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
Lagoon	Process wastewater	79.27	11.55	65.33	934.64
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.33
Application event totals		79.27	11.55	65.33	1,006.98

L5 - 06/26/2023: Corn, silage

Field name: L5

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.87
Application event totals		0.00	0.00	0.00	73.87
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)
Lagoon	Process wastewater	86.21	17.41	108.08	488.94
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.26
Application event totals		86.21	17.41	108.08	561.20
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.91
Application event totals		0.00	0.00	0.00	73.91

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L5 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	88.54	17.97	111.56	504.69	1,909,852.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.27	4,454,110.00 gal
Application event totals		88.54	17.97	111.56	576.97	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.36	4,151,224.00 gal
Application event totals		0.00	0.00	0.00	67.36	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.37	17.87	107.70	1,159.56	1,780,183.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	75.50	4,653,221.00 gal
Application event totals		90.37	17.87	107.70	1,235.07	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	78.67	4,848,337.00 gal
Application event totals		0.00	0.00	0.00	78.67	
09/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	78.58	4,842,558.00 gal
Application event totals		0.00	0.00	0.00	78.58	

L6 - 11/13/2022: Wheat, silage, soft dough

Field name: L6

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022

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L6 - 11/13/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/14/2022	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
Lagoon	Process wastewater	97.11	14.15	80.03	1,144.95	646,504.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	57.65	1,776,345.00 gal
Application event totals		97.11	14.15	80.03	1,202.60	
01/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.93	12.08	68.34	977.79	552,113.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	54.37	1,675,441.00 gal
Application event totals		82.93	12.08	68.34	1,032.16	
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.32	12.14	68.66	982.32	554,669.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	64.11	1,975,431.00 gal
Application event totals		83.32	12.14	68.66	1,046.42	

L6 - 06/26/2023: Corn, silage

Field name: L6

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/16/2023	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
3B	Ground water	15.84	0.00	0.00	631.46	2,476,445.00 gal
Application event totals		15.84	0.00	0.00	631.46	

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L6 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	91.69	18.25	116.74	1,294.70	915,621.00 gal
3B	Ground water	18.40	0.00	0.00	733.20	2,875,441.00 gal
Application event totals		110.09	18.25	116.74	2,027.90	
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
3B	Ground water	17.64	0.00	0.00	702.85	2,756,442.00 gal
Application event totals		17.64	0.00	0.00	702.85	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	79.05	15.74	100.64	1,116.18	789,369.00 gal
3B	Ground water	15.15	0.00	0.00	604.00	2,368,753.00 gal
Application event totals		94.20	15.74	100.64	1,720.18	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3B	Ground water	15.13	0.00	0.00	603.11	2,365,248.00 gal
Application event totals		15.13	0.00	0.00	603.11	
09/02/2023	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
3B	Ground water	15.17	0.00	0.00	604.69	2,371,465.00 gal
Application event totals		15.17	0.00	0.00	604.69	
09/16/2023	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
3B	Ground water	15.71	0.00	0.00	626.30	2,456,224.00 gal
Application event totals		15.71	0.00	0.00	626.30	

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L7 - 11/14/2022: Wheat, silage, soft dough

Field name: L7

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	92.27	13.44	76.04	1,087.93	784,943.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	63.58	2,503,451.00 gal
Application event totals		92.27	13.44	76.04	1,151.51	
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
Lagoon	Process wastewater	89.34	13.02	73.62	1,053.35	759,996.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	56.07	2,207,551.00 gal
Application event totals		89.34	13.02	73.62	1,109.42	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.75	10.02	56.66	810.60	584,852.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.62	2,898,564.00 gal
Application event totals		68.75	10.02	56.66	884.22	

L7 - 06/27/2023: Corn, silage

Field name: L7

Crop: Corn, silage

Plant date: 06/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/17/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	78.74	3,100,214.00 gal
Application event totals		0.00	0.00	0.00	78.74	

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L7 - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	101.92	20.69	128.42	580.95	1,404,551.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.23	3,198,357.00 gal
Application event totals		101.92	20.69	128.42	662.18	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	83.98	3,306,497.00 gal
Application event totals		0.00	0.00	0.00	83.98	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.87	18.45	114.49	517.94	1,252,195.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	91.47	3,601,549.00 gal
Application event totals		90.87	18.45	114.49	609.41	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.30	3,200,943.00 gal
Application event totals		0.00	0.00	0.00	81.30	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.23	16.65	100.38	1,080.70	1,059,991.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	83.75	3,297,524.00 gal
Application event totals		84.23	16.65	100.38	1,164.45	

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L7 - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	83.90	3,303,554.00 gal
Application event totals		0.00	0.00	0.00	83.90	

L8 - 11/14/2022: Wheat, silage, soft dough

Field name: L8

Crop: Wheat, silage, soft dough Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.86	12.22	69.11	988.78	1,364,778.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.39	5,075,994.00 gal
Application event totals		83.86	12.22	69.11	1,056.17	
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
Lagoon	Process wastewater	69.66	10.15	57.40	821.29	1,133,594.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.33	5,071,229.00 gal
Application event totals		69.66	10.15	57.40	888.61	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	69.16	10.07	56.99	815.39	1,125,449.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.95	5,569,884.00 gal
Application event totals		69.16	10.07	56.99	889.33	

L8 - 06/27/2023: Corn, silage

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L8 - 06/27/2023: Corn, silage

Field name: L8

Crop: Corn, silage

Plant date: 06/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/17/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	91.26	6,874,115.00 gal
Application event totals		0.00	0.00	0.00	91.26	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.86	19.66	122.05	552.13	2,553,654.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	74.10	5,581,554.00 gal
Application event totals		96.86	19.66	122.05	626.23	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	87.29	6,574,951.00 gal
Application event totals		0.00	0.00	0.00	87.29	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	92.31	18.74	116.31	526.18	2,433,657.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.95	5,569,852.00 gal
Application event totals		92.31	18.74	116.31	600.13	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	87.25	6,571,973.00 gal
Application event totals		0.00	0.00	0.00	87.25	

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L8 - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/02/2023	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
Lagoon	Process wastewater	76.99	15.63	97.01	438.83	2,029,657.00 gal
Rio Bravo ID	Surface water	0.00	0.00	0.00	87.21	6,568,954.00 gal
Application event totals		76.99	15.63	97.01	526.05	
09/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.45	6,059,886.00 gal
Application event totals		0.00	0.00	0.00	80.45	

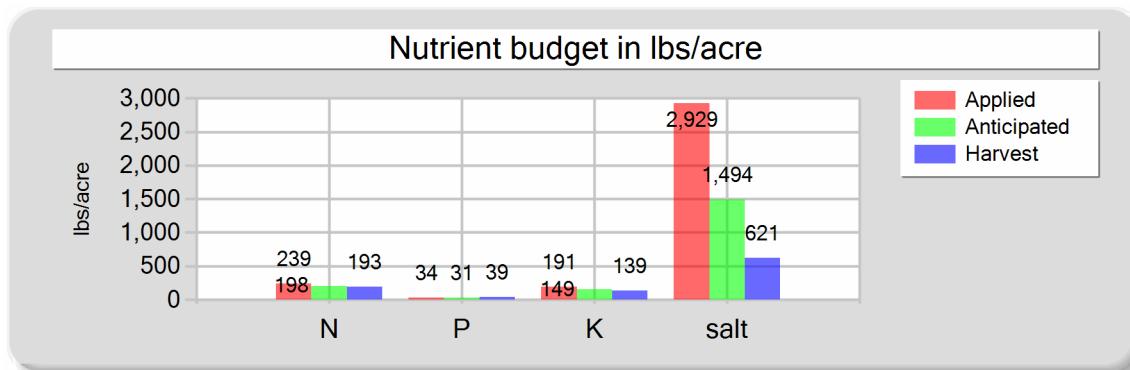
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B. NUTRIENT BUDGET

L1 - 11/15/2022: Wheat, silage, soft dough

Field name: L1 Crop: Wheat, silage, soft dough Plant date: 11/15/2022



	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	231.77	33.76	190.99	2,732.54
Fresh water	0.00	0.00	0.00	196.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	238.77	33.76	190.99	2,929.07
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	193.31	38.66	138.65	621.25
Nutrient balance	45.46	-4.90	52.34	2,307.82
Applied to removed ratio	1.24	0.87	1.38	4.71

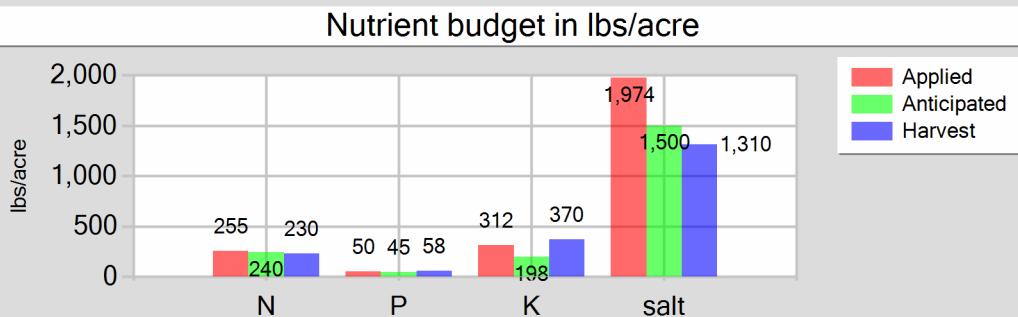
Fresh water applied
26,915,325.00 gallons
991.20 acre-inches
12.39 inches/acre
Process wastewater applied
6,857,516.00 gallons
252.54 acre-inches
3.16 inches/acre
Total harvests for the crop
1 harvests

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L1 - 06/25/2023: Corn, silage

Field name: L1 Crop: Corn, silage Plant date: 06/25/2023



	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	247.65	50.27	312.04	1,411.61
Fresh water	0.00	0.00	0.00	562.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	254.65	50.27	312.04	1,974.20
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	230.22	57.56	370.28	1,310.36
Nutrient balance	24.43	-7.28	-58.24	663.84
Applied to removed ratio	1.11	0.87	0.84	1.51

Fresh water applied
77,047,097.00 gallons
2,837.38 acre-inches
35.47 inches/acre

Process wastewater applied
11,870,643.00 gallons
437.16 acre-inches
5.46 inches/acre

Total harvests for the crop
1 harvests

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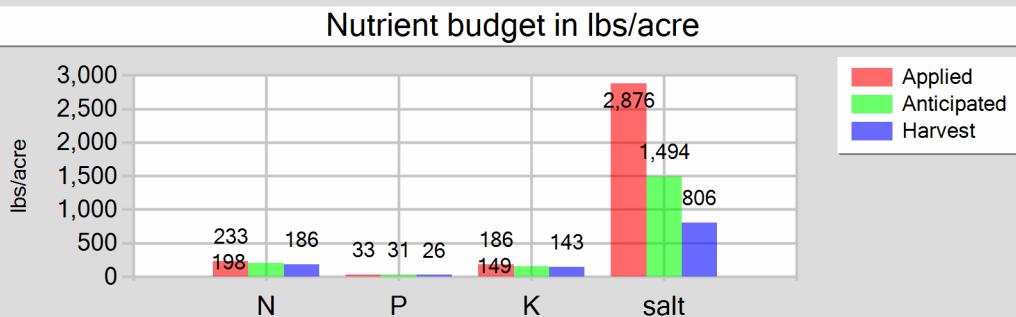
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L2 - 11/12/2022: Wheat, silage, soft dough

Field name: L2

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	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	225.94	32.91	186.19	2,663.80
Fresh water	0.00	0.00	0.00	212.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	232.94	32.91	186.19	2,876.19
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	185.52	25.86	142.79	806.16
Nutrient balance	47.42	7.05	43.39	2,070.03
Applied to removed ratio	1.26	1.27	1.30	3.57

Fresh water applied

28,359,458.00 gallons
1,044.38 acre-inches
13.39 inches/acre

Process wastewater applied

6,517,887.00 gallons
240.03 acre-inches
3.08 inches/acre

Total harvests for the crop

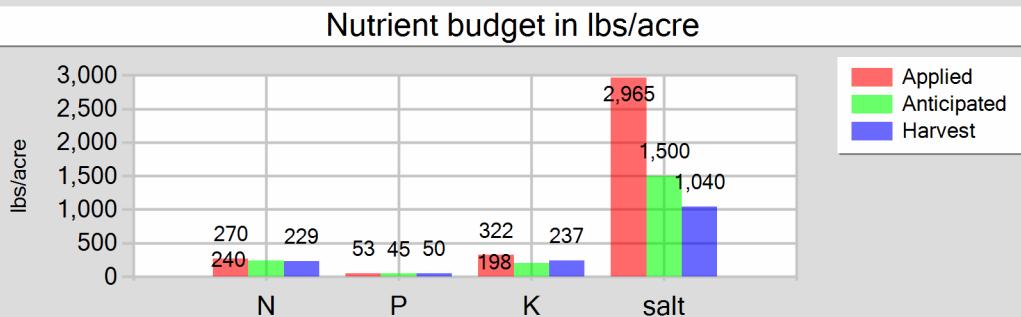
1 harvests

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L2 - 06/25/2023: Corn, silage

Field name: L2 Crop: Corn, silage Plant date: 06/25/2023



	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	262.65	52.58	321.85	2,401.95
Fresh water	0.00	0.00	0.00	562.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	269.65	52.58	321.85	2,964.56
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	228.51	50.45	237.41	1,040.16
Nutrient balance	41.14	2.13	84.43	1,924.40
Applied to removed ratio	1.18	1.04	1.36	2.85

Fresh water applied
75,123,427.00 gallons
2,766.54 acre-inches
35.47 inches/acre

Process wastewater applied
11,743,715.00 gallons
432.48 acre-inches
5.54 inches/acre

Total harvests for the crop
1 harvests

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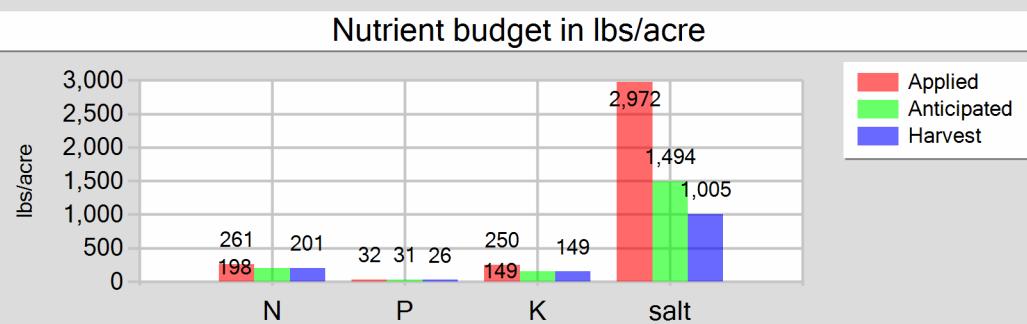
Reporting period 01/01/2023 to 12/31/2023.

L3 - 11/12/2022: Wheat, silage, soft dough

Field name: L3

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



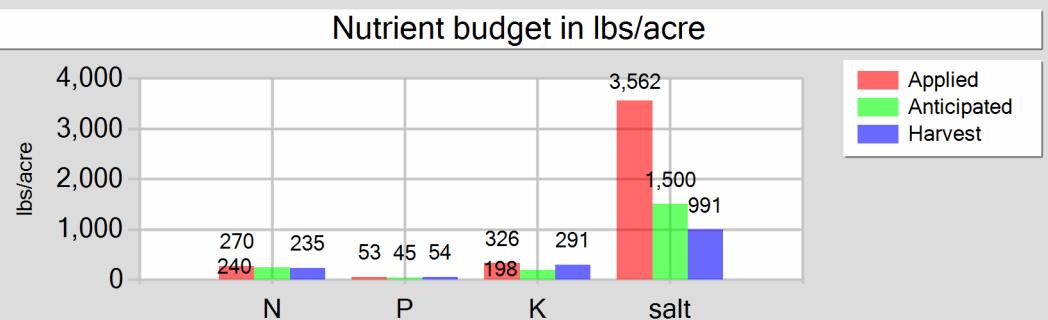
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,426,174.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	347.13 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.57 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	254.21	32.48	250.35	2,788.65	Process wastewater applied
Fresh water	0.00	0.00	0.00	183.54	2,522,527.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	92.90 acre-inches
Total nutrients applied	261.21	32.48	250.35	2,972.20	3.10 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	Total harvests for the crop
Actual crop nutrient removal	201.01	25.83	149.35	1,005.06	1 harvests
Nutrient balance	60.20	6.65	101.00	1,967.14	
Applied to removed ratio	1.30	1.26	1.68	2.96	

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

L3 - 06/25/2023: Corn, silage

Field name: L3 Crop: Corn, silage Plant date: 06/25/2023



	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	263.46	53.02	325.99	2,978.80
Fresh water	0.00	0.00	0.00	583.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.46	53.02	325.99	3,562.38
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	234.70	54.16	290.67	991.16
Nutrient balance	35.76	-1.14	35.32	2,571.21
Applied to removed ratio	1.15	0.98	1.12	3.59

Fresh water applied
29,970,433.00 gallons
1,103.71 acre-inches
36.79 inches/acre

Process wastewater applied
4,599,313.00 gallons
169.38 acre-inches
5.65 inches/acre

Total harvests for the crop
1 harvests

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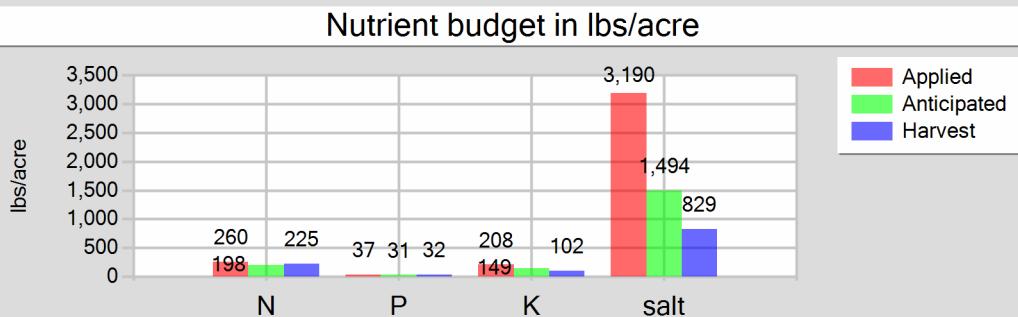
Reporting period 01/01/2023 to 12/31/2023.

L4 - 11/13/2022: Wheat, silage, soft dough

Field name: L4

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022



	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	252.61	36.80	208.17	2,978.30
Fresh water	0.00	0.00	0.00	211.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.61	36.80	208.17	3,189.75
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	224.89	31.75	101.86	829.46
Nutrient balance	34.72	5.05	106.31	2,360.30
Applied to removed ratio	1.15	1.16	2.04	3.85

Fresh water applied

18,098,818.00 gallons
666.52 acre-inches
13.33 inches/acre

Process wastewater applied

4,671,423.00 gallons
172.03 acre-inches
3.44 inches/acre

Total harvests for the crop

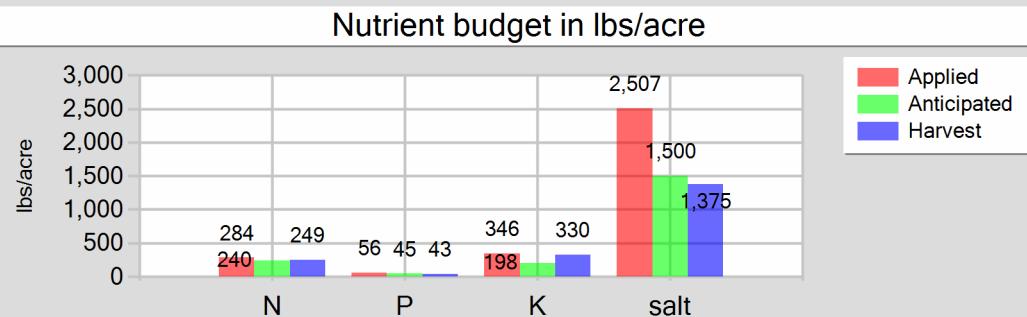
1 harvests

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

L4 - 06/26/2023: Corn, silage

Field name: L4 Crop: Corn, silage Plant date: 06/26/2023



	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	277.25	56.00	345.69	1,960.77
Fresh water	0.00	0.00	0.00	546.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.25	56.00	345.69	2,507.17
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	248.91	43.46	329.90	1,374.93
Nutrient balance	35.34	12.54	15.79	1,132.24
Applied to removed ratio	1.14	1.29	1.05	1.82

Fresh water applied
46,768,507.00 gallons
1,722.33 acre-inches
34.45 inches/acre

Process wastewater applied
8,167,145.00 gallons
300.77 acre-inches
6.02 inches/acre

Total harvests for the crop
1 harvests

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

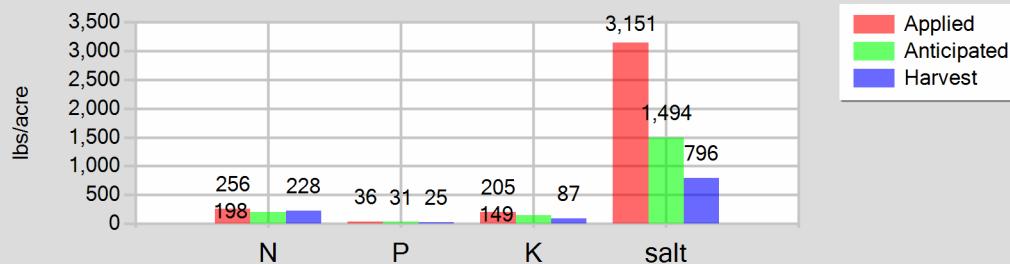
L5 - 11/13/2022: Wheat, silage, soft dough

Field name: L5

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022

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	249.32	36.32	205.46	2,939.47
Fresh water	0.00	0.00	0.00	212.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.32	36.32	205.46	3,151.49
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	227.57	24.53	87.21	795.80
Nutrient balance	28.75	11.79	118.24	2,355.70
Applied to removed ratio	1.13	1.48	2.36	3.96

Fresh water applied

13,066,330.00 gallons
481.19 acre-inches
13.37 inches/acre

Process wastewater applied

3,319,575.00 gallons
122.25 acre-inches
3.40 inches/acre

Total harvests for the crop

1 harvests

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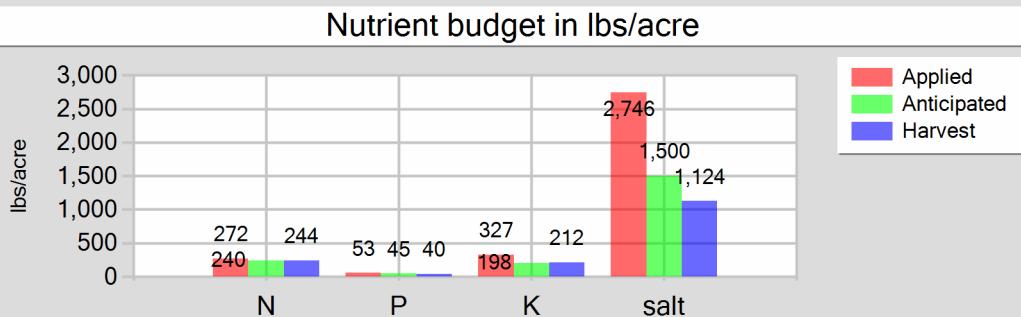
Reporting period 01/01/2023 to 12/31/2023.

L5 - 06/26/2023: Corn, silage

Field name: L5

Crop: Corn, silage

Plant date: 06/26/2023



	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	265.12	53.26	327.35	2,153.20
Fresh water	0.00	0.00	0.00	592.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.12	53.26	327.35	2,745.62
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	244.16	39.75	211.98	1,124.28
Nutrient balance	27.96	13.51	115.36	1,621.35
Applied to removed ratio	1.11	1.34	1.54	2.44

Fresh water applied

36,510,220.00 gallons
1,344.55 acre-inches
37.35 inches/acre

Process wastewater applied

5,540,259.00 gallons
204.03 acre-inches
5.67 inches/acre

Total harvests for the crop

1 harvests

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

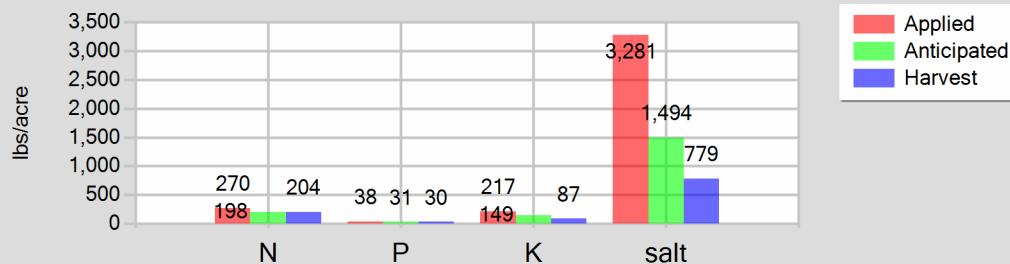
L6 - 11/13/2022: Wheat, silage, soft dough

Field name: L6

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022

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	263.36	38.37	217.03	3,105.06
Fresh water	0.00	0.00	0.00	176.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.36	38.37	217.03	3,281.19
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	204.31	29.77	86.60	779.37
Nutrient balance	66.05	8.60	130.43	2,501.82
Applied to removed ratio	1.32	1.29	2.51	4.21

Fresh water applied

5,427,217.00 gallons
199.87 acre-inches
11.10 inches/acre

Process wastewater applied

1,753,286.00 gallons
64.57 acre-inches
3.59 inches/acre

Total harvests for the crop

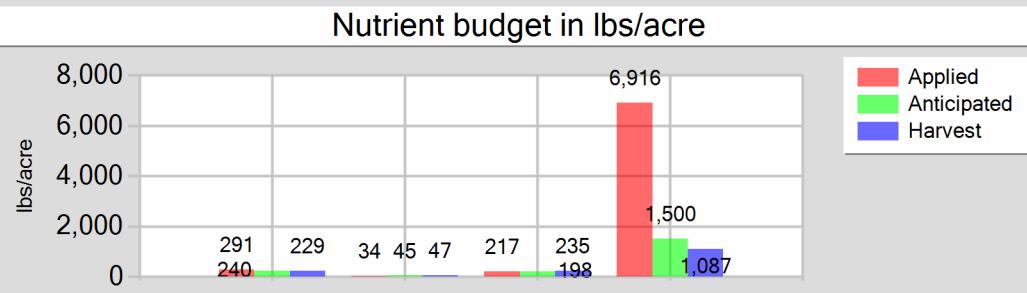
1 harvests

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

L6 - 06/26/2023: Corn, silage

Field name: L6 Crop: Corn, silage Plant date: 06/26/2023



	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	170.74	33.99	217.37	2,410.88
Fresh water	113.05	0.00	0.00	4,505.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	290.79	33.99	217.37	6,916.49
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	229.16	47.01	235.04	1,087.06
Nutrient balance	61.62	-13.02	-17.67	5,829.43
Applied to removed ratio	1.27	0.72	0.92	6.36

Fresh water applied

17,670,018.00 gallons
650.73 acre-inches
36.15 inches/acre

Process wastewater applied

1,704,990.00 gallons
62.79 acre-inches
3.49 inches/acre

Total harvests for the crop

1 harvests

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

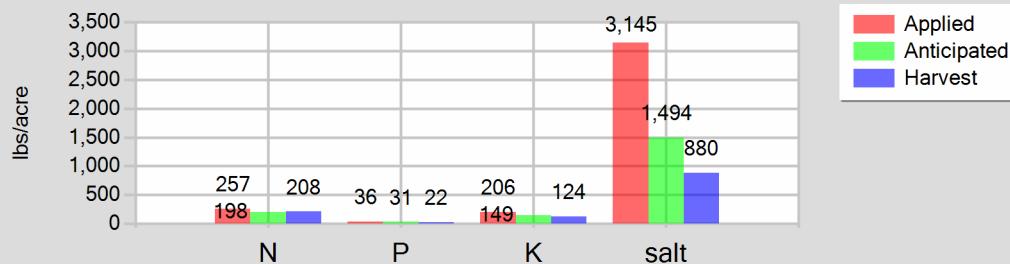
L7 - 11/14/2022: Wheat, silage, soft dough

Field name: L7

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

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	250.37	36.47	206.32	2,951.88
Fresh water	0.00	0.00	0.00	193.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	257.37	36.47	206.32	3,145.15
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	207.67	21.73	124.36	880.16
Nutrient balance	49.70	14.74	81.96	2,264.98
Applied to removed ratio	1.24	1.68	1.66	3.57

Fresh water applied

7,609,566.00 gallons
280.23 acre-inches
12.18 inches/acre

Process wastewater applied

2,129,791.00 gallons
78.43 acre-inches
3.41 inches/acre

Total harvests for the crop

1 harvests

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

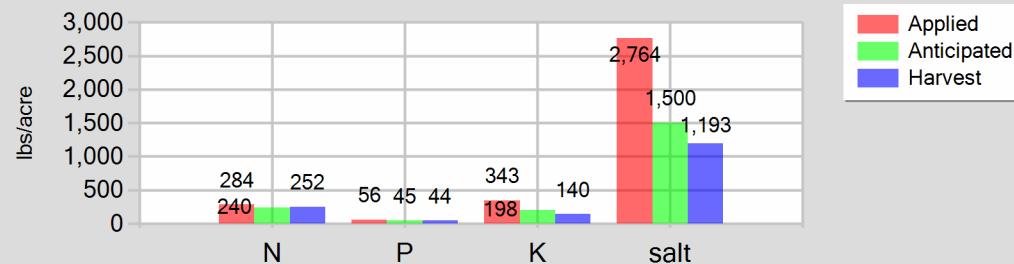
L7 - 06/27/2023: Corn, silage

Field name: L7

Crop: Corn, silage

Plant date: 06/27/2023

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	277.01	55.79	343.29	2,179.59
Fresh water	0.00	0.00	0.00	584.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.01	55.79	343.29	2,763.96
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	251.84	43.95	140.29	1,193.30
Nutrient balance	32.17	11.84	203.00	1,570.66
Applied to removed ratio	1.13	1.27	2.45	2.32

Fresh water applied

23,008,638.00 gallons
847.33 acre-inches
36.84 inches/acre

Process wastewater applied

3,716,737.00 gallons
136.87 acre-inches
5.95 inches/acre

Total harvests for the crop

1 harvests

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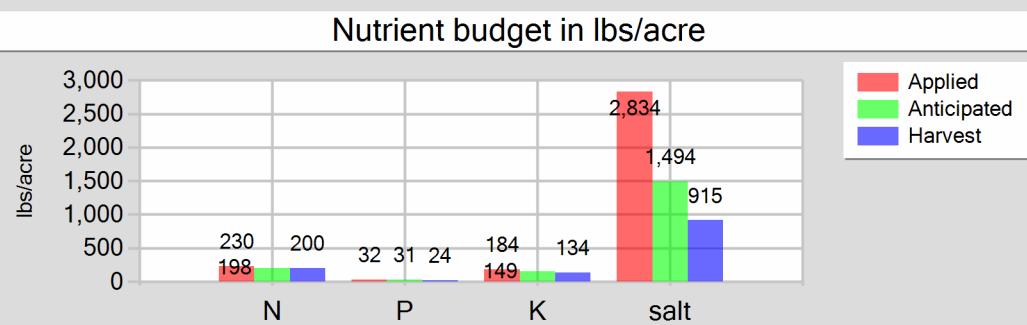
Reporting period 01/01/2023 to 12/31/2023.

L8 - 11/14/2022: Wheat, silage, soft dough

Field name: L8

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022



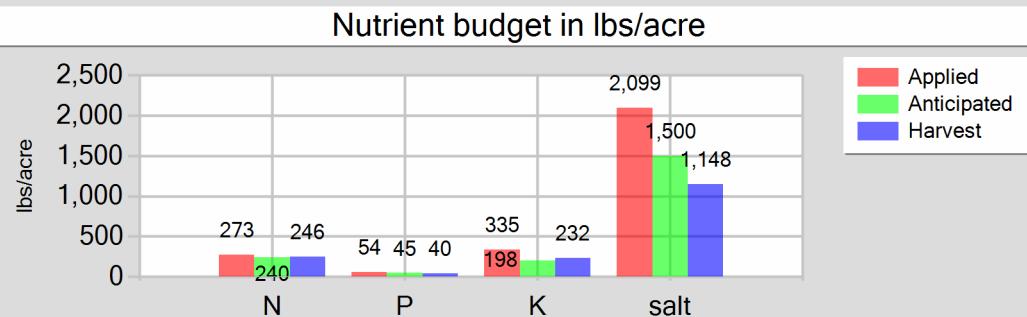
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	15,717,107.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	578.81 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.15 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	222.68	32.44	183.51	2,625.45	3,623,821.00 gallons
Fresh water	0.00	0.00	0.00	208.66	133.45 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	3.03 inches/acre
Total nutrients applied	229.68	32.44	183.51	2,834.11	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	199.50	24.38	134.11	915.50	
Nutrient balance	30.18	8.06	49.40	1,918.62	
Applied to removed ratio	1.15	1.33	1.37	3.10	
Total harvests for the crop					1 harvests

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

L8 - 06/27/2023: Corn, silage

Field name: L8 Crop: Corn, silage Plant date: 06/27/2023



	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	266.17	54.03	335.37	1,517.15
Fresh water	0.00	0.00	0.00	581.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	273.17	54.03	335.37	2,098.66
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	245.77	40.32	232.33	1,148.20
Nutrient balance	27.40	13.71	103.04	950.46
Applied to removed ratio	1.11	1.34	1.44	1.83

Fresh water applied
43,801,285.00 gallons
1,613.05 acre-inches
36.66 inches/acre

Process wastewater applied
7,016,968.00 gallons
258.41 acre-inches
5.87 inches/acre

Total harvests for the crop
1 harvests

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

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

Sample and source description: Manure

Sample date: 10/05/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.1 %

	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	23,200.00	7,100.00	10,300.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 05/01/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 23.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,400.00	6,800.00	33,100.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/03/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,100.00	7,000.00	13,800.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

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

Lagoon

Sample and source description: Lagoon

Sample date: 11/10/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	324.00	260.00	0.00	0.00	47.20	267.00								5.75	3,820
DL	10.00	2.00	0.10	0.10	0.20	0.50								0.10	10

Lagoon

Sample and source description: Lagoon

Sample date: 03/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

	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	463.00	307.00	0.00	0.00	43.90	593.00								6,600.00	4,380
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 05/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	200.00	185.00	0.00	0.00	40.60	252.00								1,710.00	1,140
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 08/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	219.00	210.00	0.00	0.00	43.30	261.00								4,230.00	2,810
DL	10.00	2.00	0.10	0.10	0.50	0.50								100.00	10

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

LagoonSample and source description: LagoonSample date: 11/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	284.00	279.00			35.60	229.00								4,040.00	2,680
DL	10.00	2.00			0.20	0.50								100.00	10

C. FRESH WATER ANALYSES**DW-2****Domestic Well**Sample description: Domestic WellSample date: 12/06/2023 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	1.80	0.00	1.80	35.00	0.00	41.00	120.00	0.00	10.20	44.00	419.00	210
DL	0.10	0.10	0.10	1.00	1.00	1.00	10.00	10.00	0.17	1.00	1.00	20

Rio Bravo ID**Canal Water**Sample description: Canal WaterSample date: 06/28/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00								71.00	70
DL	0.40	0.50	0.40								1.00	20

D. SOIL ANALYSES*No soil analyses entered.*

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

E. PLANT TISSUE ANALYSES

L1 - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/02/2023 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	14,500.00	2,900.00	10,400.00		4.66
DL	500.00	200.00	200.00		0.05

L1 - 06/25/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	3,000.00	19,300.00		6.83
DL	500.00	200.00	200.00		0.05

L2 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	2,300.00	12,700.00		7.17
DL	500.00	200.00	200.00		0.05

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

L2 - 06/25/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	3,400.00	16,000.00		7.01
DL	500.00	200.00	200.00		0.05

L3 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/21/2023 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	17,900.00	2,300.00	13,300.00		8.95
DL	500.00	200.00	200.00		0.05

L3 - 06/25/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/01/2023 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	13,000.00	3,000.00	16,100.00		5.49
DL	500.00	200.00	200.00		0.05

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

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

L4 - 11/13/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	2,400.00	7,700.00		6.27
DL	500.00	200.00	200.00		0.05

L4 - 06/26/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	2,200.00	16,700.00		6.96
DL	500.00	200.00	200.00		0.05

L5 - 11/13/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/26/2023 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	16,700.00	1,800.00	6,400.00		5.84
DL	500.00	200.00	200.00		0.05

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

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

L5 - 06/26/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/02/2023 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	12,900.00	2,100.00	11,200.00		5.94
DL	500.00	200.00	200.00		0.05

L6 - 11/13/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	2,200.00	6,400.00		5.76
DL	500.00	200.00	200.00		0.05

L6 - 06/26/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	2,400.00	12,000.00		5.55
DL	500.00	200.00	200.00		0.05

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

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

L7 - 11/14/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,200.00	1,800.00	10,300.00		7.29
DL	500.00	200.00	200.00		0.05

L7 - 06/27/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,900.00	2,600.00	8,300.00		7.06
DL	500.00	200.00	200.00		0.05

L8 - 11/14/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,000.00	2,200.00	12,100.00		8.26
DL	500.00	200.00	200.00		0.05

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

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

L8 - 06/27/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	2,100.00	12,100.00		5.98
DL	500.00	200.00	200.00		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

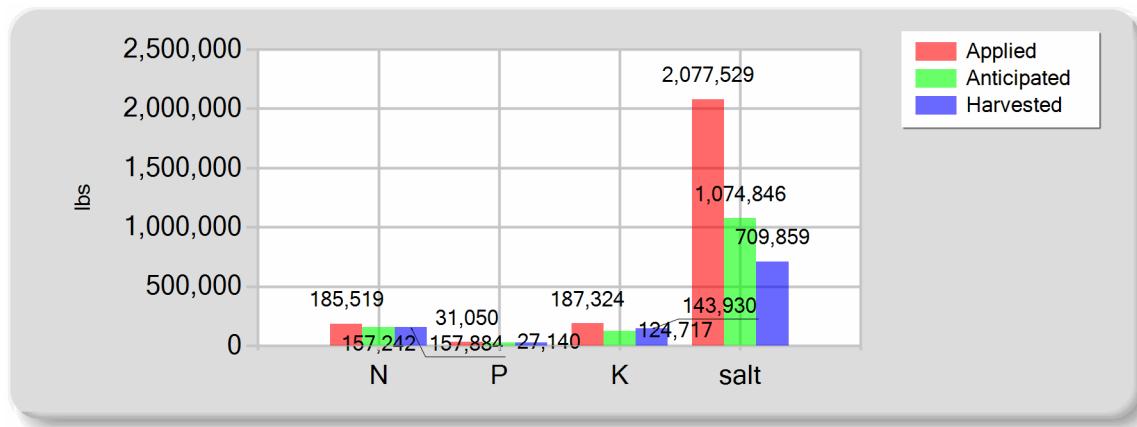
No subsurface (tile) drainage analyses entered.

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	178,458.44	31,050.28	187,324.42	1,729,559.38
Fresh water	2,034.90	0.00	0.00	347,969.66
Atmospheric deposition	5,026.00	0.00	0.00	0.00
Total nutrients applied	185,519.34	31,050.28	187,324.42	2,077,529.04
Anticipated crop nutrient removal	157,242.00	27,140.40	124,716.60	1,074,846.00
Actual crop nutrient removal	157,883.61	27,863.30	143,929.79	709,858.64
Nutrient balance	27,635.73	3,186.98	43,394.63	1,367,670.40
Applied to removed ratio	1.18	1.11	1.30	2.93

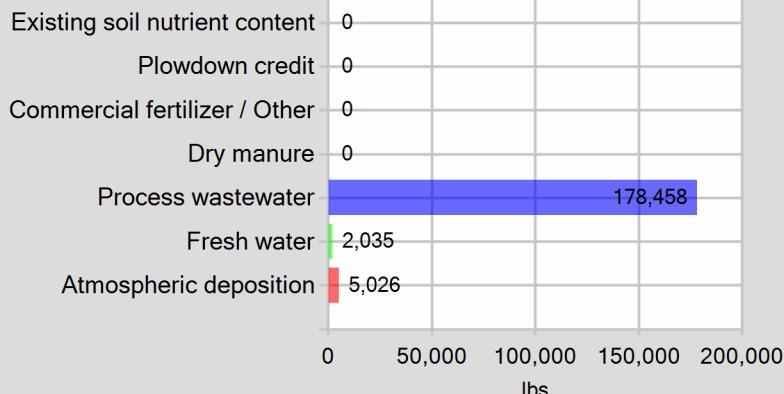
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

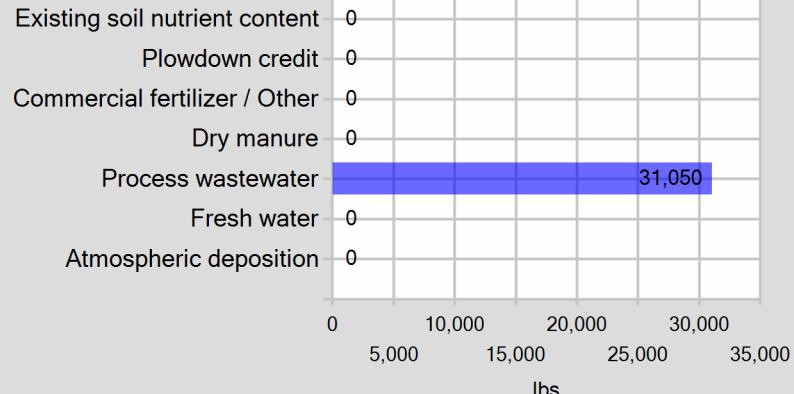
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

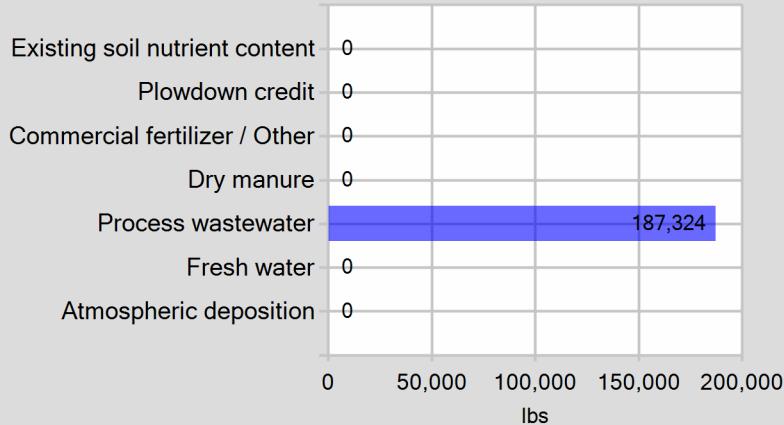
Pounds of nitrogen applied



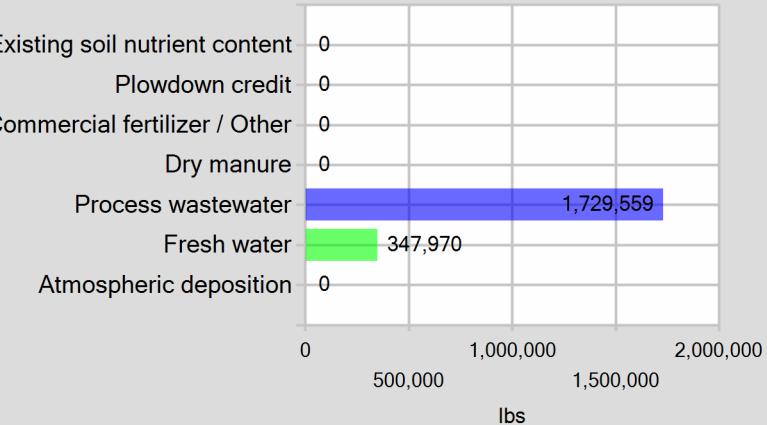
Pounds of phosphorus applied



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? Yes _____

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

Wells~ DW-1, L1E, L1W, 2B, 3B, 6, 7 and 8 were out of service 2023.

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

John Bidart

PRINT OR TYPE NAME

6/14/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

6/14/2024

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.

July 17, 2023

Sentry Ag Services
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Lab No. : VI 2344347
Customer No. : 4019696
Reference : 3049

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

- | | | |
|-----------------|----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Rio Bravo ID	06/28/2023	06/28/2023	VI 2344347-001	AGW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: KEH

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-07-17

Section: Case Narrative

Page 1 of 3

Page 1 of 3

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory
853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810

July 17, 2023

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : Rio Bravo ID
 Project : Rio Bravo ID

Lab No. : VI 2344347-001
 Customer No. : 4019696
 Reference : 3049
 Sampled On : June 28, 2023 at 08:10
 Sampled By : Klay
 Received On : June 28, 2023 at 10:44
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	17:26	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	15:51	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	Calc.	07/14/2023	17:26	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/29/2023	12:00	lfs	SM 4500-NO3 F	06/29/2023	15:51	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/11/2023	15:00	sta	EPA 351.2	07/14/2023	17:26	lcr
Conductivity	71	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	23:38	sta
Solids, Total Dissolved (TDS)	70	20	mg/L		1		06/30/2023	11:15	ctl	SM 2540 C	07/03/2023	11:30	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

July 17, 2023

Sentry Ag Service

Lab No. : VI 2344347

Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2343994-001)	Dup	umhos/cm		1.38%	5	
Solids, Total Dissolved	2540CE	06/30/2023:207209CTL (SP 2311099-001) (SP 2311099-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	993.7	ND 101% 0.3% 0.2%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	07/11/2023:207567STA (STK2338587-006) (STK2338587-005)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 97.7% 92.5% 91.2% 1.4% 97.1% 96.0% 1.1%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	06/29/2023:207183LFS (VI 2344345-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 98.0% 94.6% 95.5% 0.5%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	06/29/2023:207183LFS (VI 2344345-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 98.0% 94.6% 95.5% 0.5%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.



2344347
Laboratory Analysis Work Order

3049

SITE NAME: Rio Bravo I.D.

LABORATORY: VT

FGL 4-19696

Billing: Sentry Ag Services, LLC

P.O. Box 7750, Visalia, CA 93290

Authorized Copy Release to:

labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
 - W2 EC, NO₃N, TDS, TN (Irr)
 - W3 NH₄-N (Ammonium)
 - W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
 - W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
 - W6 NO₃N, NO₂ (Dom ILRP, Annually)
 - W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 - W8 Other: _____
- RCI
5.1

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
- L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
- S2 S1 + CEC, CaCO₃, OM, C:N, TN
- S3 NO₃N, NH₄N
- S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 (Rio Bravo ID)	Canal	W2	6/28/23 8:10	Klay	—		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures or the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

GLS 6/29/23
CIA 1028

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	Klay Mittel	SAS		6/28/23 10:44
2 nd	SRO	FGL	6/28/23 1044	
3 rd	SRO	FGL		6/28/23 1730
4 th		GLS	6/28/23 1730	

LABORATORY USE ONLY

Logged In By: _____

Total Samples: _____

Laboratory No.: _____

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: 201 / 5.4 / / /

Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
5. VOAs checked for Headspace? Yes No N/A
6. Were sample custody seals intact? Yes No N/A
7. If required, was sample split for pH analysis? Yes No N/A
8. Were all analyses within holding times at time of receipt? Yes No N/A
9. Verify sample date, time and sampler name Yes No N/A

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 1 / 2 / 4 / 4 / Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers:

559678703 / 7 / 691 / 696

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
5. Were sample custody seals intact? Yes No N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Have rush or project due dates been checked and accepted? Yes No N/A
6. Were all analyses within holding times at time of receipt? Yes No N/A

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): CTA

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem:
Resolution:
2. Person Contacted: _____ (4019696)
Initiated By: _____
Problem:
Resolution:

(Please use the back of this sheet for additional contacts)

Sentry Ag Service
VI 2344347
iv 06/28/2023 11:43:17
U1 2344347

December 22, 2023

Sentry Ag Services
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Lab No. : VI 2348239
Customer No. : 4019696
Reference : 3456

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : Results for each sample submitted. |
| Quality Control | (2 pages) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
DW2	12/06/2023	12/06/2023	VI 2348239-001	DW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-12-24

Section: Case Narrative

Page 1 of 4

Page 1 of 4

Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	Office & Laboratory 3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810
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December 22, 2023

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : DW2
 Project : Bidart III

Lab No. : VI 2348239-001
 Customer No. : 4019696
 Reference : 3456
 Sampled On : December 6, 2023 at 10:20
 Sampled By : Klay Mittel
 Received On : December 6, 2023 at 12:47
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Alkalinity (as CaCO ₃)	100	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/10/2023	00:50	amm	
Bicarbonate	120	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/10/2023	00:50	amm	
Carbonate	ND	10	mg/L		1	U	12/09/2023	15:04	amm	SM 4500-H+B	12/10/2023	00:50	amm	
Hydroxide	ND	10	mg/L		1	U	12/09/2023	15:04	amm	SM 4500-H+B	12/10/2023	00:50	amm	
Chloride	44	1	mg/L	500 ²	1		12/07/2023	11:23	ldm	EPA 300.0	12/08/2023	08:11	ldm	
Nitrate Nitrogen	1.8	0.1	mg/L	10	1		12/07/2023	11:23	ldm	EPA 300.0	12/08/2023	08:11	ldm	
Conductivity	419	1	umhos/cm	1600 ²	1		12/09/2023	15:04	amm	SM 4500-H+B	12/10/2023	00:50	amm	
Sulfate Sulfur	10.2	0.17	mg/L		1		12/07/2023	11:23	ldm	EPA 300.0	12/08/2023	08:11	ldm	
Solids, Total Dissolved (TDS)	210	20	mg/L	1000 ²	1		12/08/2023	09:50	ctl	SM 2540 C	12/11/2023	11:30	ctl	
Calcium	35	1	mg/L		1		12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	11:03	ac	
Magnesium	ND	1	mg/L		1	U	12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	11:03	ac	
Potassium	1	1	mg/L		1		12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	11:03	ac	
Sodium	41	1	mg/L		1		12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	11:03	ac	

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

December 22, 2023
Sentry Ag Service

Lab No. : VI 2348239
Customer No. : 4019696

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 99.1% 95.7% 75.8% 3.1% 123% 92.7% 3.2%	<1 85-115 75-125 75-125 ≤20.0 75-125 75-125 ≤20.0	
Magnesium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 97.8% 103% 99.2% 3.1% 112% 92.4% 5.1%	<1 85-115 75-125 75-125 ≤20 75-125 75-125 ≤20	
Potassium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 98.4% 100% 97.3% 3.0% 105% 100% 3.0%	<1 85-115 75-125 75-125 ≤20.0 75-125 75-125 ≤20.0	
Sodium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 93.7% 101% 85.0% 2.9% 158% 56.2% 6.2%	<1 85-115 75-125 75-125 ≤20.0 <1/4 <1/4 ≤20.0	406

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND : Non-detect - Result was below the DQO listed for the analyte.

Explanation

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	12/09/2023:213884AMM	ND	mg/L		0.4%	10	406
Bicarbonate	2320B	(VI 2348309-001)	Dup	mg/L		0.4%	10	
E. C.	2320B	(VI 2348309-001)	Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2540CE	12/08/2023:213823CTL	Blank	mg/L	991.5	ND	<20	
		(SP 2320140-001)	LCS	mg/L		99.5%	90-110	
		(SP 2320140-001)	Dup	mg/L		0.6%	5	
		(SP 2320140-001)	Dup	mg/L		0.2%	5	
Chloride	300.0	12/07/2023:213946LDM	Blank	mg/L		ND	<1	
		(CH 2373985-001)	LCS	mg/L	25.00	98.5%	90-110	
		(CH 2373985-001)	MS	mg/L	50.00	102%	67-117	
		(CH 2373985-001)	MSD	mg/L	50.00	102%	67-117	
		(VI 2348252-001)	MSRPD	mg/L		0.0%	≤7	
		(VI 2348252-001)	MS	mg/L	50.00	100%	67-117	
		(VI 2348252-001)	MSD	mg/L	50.00	101%	67-117	
		(VI 2348252-001)	MSRPD	mg/L		0.8%	≤7	
Nitrate Nitrogen	300.0	12/07/2023:213946LDM	Blank	mg/L		ND	<0.4	
		(CH 2373985-001)	LCS	mg/L	20.00	96.6%	90-110	
		(CH 2373985-001)	MS	mg/L	40.00	101%	86-112	
		(CH 2373985-001)	MSD	mg/L	40.00	101%	86-112	
		(VI 2348252-001)	MSRPD	mg/L		0.1%	≤7	
		(VI 2348252-001)	MS	mg/L	40.00	101%	86-112	
		(VI 2348252-001)	MSD	mg/L	40.00	102%	86-112	
		(VI 2348252-001)	MSRPD	mg/L		0.9%	≤7	
Sulfate Sulfur	300.0	12/07/2023:213946LDM	Blank	mg/L		ND	<0.5	
		(CH 2373985-001)	LCS	mg/L	50.00	99.8%	90-110	
		(CH 2373985-001)	MS	mg/L	100.0	103%	18-165	
		(CH 2373985-001)	MSD	mg/L	100.0	103%	18-165	
		(CH 2373985-001)	MSRPD	mg/L		0.1%	≤7	
		(VI 2348252-001)	MS	mg/L	100.0	102%	18-165	
		(VI 2348252-001)	MSD	mg/L	100.0	103%	18-165	
		(VI 2348252-001)	MSRPD	mg/L		1.0%	≤7	

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

Explanation

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.



Laboratory Analysis Work Order

2348239

3456

SITE NAME: Bidart, CA

LABORATORY: VT

FGL 4-19696

Billing: Sentry Ag Services, LLC

P.O. Box 7750, Visalia, CA 93290

Authorized Copy Release to:

labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
 W2 EC, NO₃N, TDS, TN (Irr)
 W3 NH₄-N (Ammonium)
 W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
 W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
 W6 NO₃N, NO₂ (Dom ILRP, Annually)
 W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 W8 Other: _____

1.8°C R-1
TH 407

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
 P2 TN, P, K (Mid-season - Corn)
 P3 TN, TP, TK, Ash, %M (At Harvest)
 P4 TN, %M
 P5 % Moisture
 P6 NIR
 P7 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
 M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
 M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N,
 PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
 S2 S1 + CEC, CaCO₃, OM, C:N, TN
 S3 NO₃N, NH₄N
 S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 DW2	Dan. Well	W4	12/6/23 (020)	Kley	—		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	Kley	JAS		12/6/23 12:47
2 nd	ASB	FGL	12/6/23 12:47	
3 rd	ASB	FGL		12/6/23 17:30
4 th	GLS	GLS	12/6/23 17:30	

LABORATORY USE ONLY

Logged In By: _____

Total Samples: _____

Laboratory No.: _____

6/11/2023
JAS
FGL

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK

1. Number of ice chests/packages received: 1 Shipping tracking #(s): OTC

2. Temp IR Gun ID #: TH407

3. Were samples received on ice? Yes No Temps: 7.8° C / / /

Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

4. Do the number of bottles received agree with the COC?

Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.)

Yes No

6. VOAs checked for Headspace?

Yes No N/A

7. Were all analyses within holding times at time of receipt?

Yes No

8. Verify sample date, time and sampler name

Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): AB

Sample Receipt at SP:

1. Number of ice chests/packages received: 4 Shipping tracking #(s): SK0547401, SK0547403
SK0547403, SK0547403, SK0547403, SK0547403

2. Temp IR Gun ID #: TH407

3. Were samples received on ice? Yes No Temps: / / / / ,
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4. Do the number of bottles received agree with the COC?

Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.)

Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable?

Yes No

2. Did bottle labels correspond with the client's ID's?

Yes No

3. Were all bottles requiring sample preservation properly preserved?

Yes No N/A FGL

[Exception: Oil & Grease, VOA and CrVI verified in lab]

4. VOAs checked for Headspace?

Yes No N/A

5. Have rush or project due dates been checked and accepted?

Yes No N/A

6. Were all analyses within holding times at time of receipt?

Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): JL

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem:

Resolution:

2. Person Contacted: _____ Number: _____

Initiated By: _____ (4019696)

Problem:

Resolution:

Sentry Ag Service
VI 2348239
cda 12/06/2023 17:00:49



ATTACHMENT D

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

Instructions:

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

Operator Information: Name of Operator: _____				
Name of Dairy Facility: <u>BIDWELL DAIRY #3</u>				
Facility Address: <u>25820 STOCKDALE HWY BLMN</u>		City	Zip Code <u>93314</u>	
Number and Street				
Contact Person Name and Phone Number: _____				
Name _____				Phone Number <u>661-589-7406</u>
Manure/Process Wastewater Hauler Information:				
Name of Hauling Company/Person: <u>B&B</u>				
Address of Hauling Company /Person: <u>9671 DEM MIN BLMN</u>		City	Zip Code <u>93311</u>	
Number and Street				
Contact Person: <u>Fran AMIREH</u>				
Name _____				Phone Number <u>661-978-9321</u>
Destination Information:				
Composting Facility / Broker / <u>Farmer</u> Other (identify) _____ (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
Name <u>B-B&B FARM 23951 SWW BLMN</u>	Number and Street	City	Zip Code <u>93314</u>	Phone Number <u>661-578-2471</u>
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				
Number and Street	City	Zip Code	Assessor's Parcel Number	
Dates Hauled: <u>8/23/23</u>				
Amount Hauled: Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:				
Manure: <u>108.40</u> Tons or Cubic Yards (indicate which units used)				
Manure Solids Content (if amount reported in tons): <u>62%</u>				
Manure Density (if amount reported in cubic yards): _____				

Attachment D

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

D-2

Method used to determine amount of manure: Dry

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater:

Written Agreement:

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

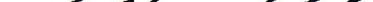
Yes _____ No _____

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

Connections

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

Operator's Signature:  Date: 5/14/24

Hauler's Signature:  Date: 6/4/24