

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: 11/12/1982Regional 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, JohnTelephone no.: (661) 397-5400

Landline

Cellular

P.O. Box 11810

Mailing Address Number and Street

Bakersfield

City

CA

State

93389

Zip Code

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

Bidart, John

Legal owner name: Bidart, JohnTelephone no.: (661) 397-5400

Landline

Cellular

P.O. Box 11810

Mailing Address Number and Street

Bakersfield

City

CA

State

93389

Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	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

Total phosphorus generated: 31,050.28 lbs

Total potassium generated: 187,324.42 lbs

Total salt generated: 1,729,559.38 lbs

85,755,596 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 85,755,596 gallons generated

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 <i>ton</i>	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: <u>L1</u>																				
11/15/2022: Wheat, silage, soft dough																				
Crop: <u>Wheat, silage, soft dough</u> Acres planted: <u>80</u> Plant date: <u>11/15/2022</u>																				
<table><tr><th>Harvest date</th><th>Yield</th><th>Reporting basis</th><th>Density (lbs/cu ft)</th><th>Moisture (%)</th><th>N (mg/kg)</th><th>P (mg/kg)</th><th>K (mg/kg)</th><th>Salt (mg/kg)</th><th>TFS (%)</th></tr><tr><td>05/02/2023</td><td>1,461.00 ton</td><td>Dry-weight</td><td></td><td>63.5</td><td>14,500.00</td><td>2,900.00</td><td>10,400.00</td><td></td><td>4.66</td></tr></table>	Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	05/02/2023	1,461.00 ton	Dry-weight		63.5	14,500.00	2,900.00	10,400.00		4.66
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											
<table><tr><th></th><th>Yield (tons/acre)</th><th>Total N (lbs/acre)</th><th>Total P (lbs/acre)</th><th>Total K (lbs/acre)</th><th>Salt (lbs/acre)</th></tr><tr><td>Anticipated harvest content</td><td>18.00</td><td>198.00</td><td>30.60</td><td>149.40</td><td>1,494.00</td></tr><tr><td>Total actual harvest content</td><td>18.26</td><td>193.31</td><td>38.66</td><td>138.65</td><td>621.25</td></tr></table>		Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)	Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00	Total actual harvest content	18.26	193.31	38.66	138.65	621.25		
	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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L3

Field name: L3

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

Crop: Wheat, silage, soft doughAcres 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, silageAcres 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

L4

Field name: L4

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

Crop: Wheat, silage, soft doughAcres 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 ton	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

L5

Field 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 ton	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 ton	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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L6

Field 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 <i>ton</i>	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 <i>ton</i>	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

L7

Field 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 <i>ton</i>	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 ton	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

L8

Field 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 ton	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 ton	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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	65.84	9,016,882.00 <i>gal</i>
Application event totals			74.19	10.81	61.14	940.51	
01/16/2023	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	97.93	14.27	80.70	1,154.56	2,897,446.00 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	67.29	9,215,994.00 <i>gal</i>
Application event totals			97.93	14.27	80.70	1,221.85	
02/22/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	59.65	8.69	49.16	703.31	1,765,016.00 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	63.40	8,682,449.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.60	11,175,449.00 <i>gal</i>
Application event totals		47.04	9.55	59.27	349.73	
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	81.08	11,104,648.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	81.08	
07/21/2023	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
Lagoon	Process wastewater	58.62	11.90	73.86	334.14	2,809,882.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.13	11,110,667.00 <i>gal</i>
Application event totals		58.62	11.90	73.86	415.27	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.96	14.00	86.89	393.07	3,305,449.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.21	11,121,557.00 <i>gal</i>
Application event totals		68.96	14.00	86.89	474.28	
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
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.11	11,108,449.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.13	11,110,554.00 <i>gal</i>
Application event totals		73.03	14.83	92.02	497.40	
09/20/2023	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	75.32	10,315,773.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	71.30	9,520,554.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	70.52	9,416,445.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	70.57	9,422,459.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.25	10,715,882.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.81	10,923,753.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.03	10,820,114.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	79.55	10,621,449.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	58.54	3,006,559.00 <i>gal</i>
Application event totals		82.70	12.05	68.15	1,033.53	
01/22/2023	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
Lagoon	Process wastewater	82.03	11.95	67.60	967.20	910,224.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	58.59	3,008,951.00 <i>gal</i>
Application event totals		82.03	11.95	67.60	1,025.79	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.48	8.48	114.60	846.47	694,753.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	66.41	3,410,664.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	80.03	4,110,227.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	82.03	4,212,559.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	87.75	4,506,559.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Application event totals			0.00	0.00	0.00	87.82	

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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

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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	65.06	5,568,995.00 <i>gal</i>
Application event totals			92.46	13.47	76.20	1,155.21	
01/15/2023	Pipeline		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	86.84	12.65	71.56	1,023.82	1,605,841.00 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	73.18	6,264,159.00 <i>gal</i>
Application event totals			86.84	12.65	71.56	1,097.00	
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	73.31	10.68	60.41	864.34	1,355,698.00 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	73.20	6,265,664.00 <i>gal</i>
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 <i>gal</i>
	Rio Bravo ID	Surface water	0.00	0.00	0.00	67.39	5,768,445.00 <i>gal</i>
	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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	68.52	5,864,775.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	65.02	5,565,441.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	83.73	7,167,114.00 <i>gal</i>
Application event totals		53.35	10.55	63.58	768.30	
09/22/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	57.23	4,898,554.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.41	4,154,258.00 <i>gal</i>
Application event totals		90.01	13.11	74.17	1,128.64	
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	80.03	11.66	65.95	943.60	1,065,621.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.28	4,454,231.00 <i>gal</i>
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)	Amount
Lagoon	Process wastewater	79.27	11.55	65.33	934.64	1,055,498.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.33	4,457,841.00 <i>gal</i>
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)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.87	4,552,664.00 <i>gal</i>
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)	Amount
Lagoon	Process wastewater	86.21	17.41	108.08	488.94	1,850,224.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.26	4,453,445.00 <i>gal</i>
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)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.91	4,554,661.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	72.27	4,454,110.00 <i>gal</i>
Application event totals		88.54	17.97	111.56	576.97	
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	67.36	4,151,224.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	67.36	
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
Lagoon	Process wastewater	90.37	17.87	107.70	1,159.56	1,780,183.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	75.50	4,653,221.00 <i>gal</i>
Application event totals		90.37	17.87	107.70	1,235.07	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	78.67	4,848,337.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	78.67	
09/22/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	78.58	4,842,558.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	57.65	1,776,345.00 <i>gal</i>
Application event totals		97.11	14.15	80.03	1,202.60	
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	82.93	12.08	68.34	977.79	552,113.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	54.37	1,675,441.00 <i>gal</i>
Application event totals		82.93	12.08	68.34	1,032.16	
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.32	12.14	68.66	982.32	554,669.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	64.11	1,975,431.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>	
3B		Ground water	18.40	0.00	0.00	733.20	2,875,441.00 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
3B		Ground water	15.15	0.00	0.00	604.00	2,368,753.00 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	63.58	2,503,451.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	56.07	2,207,551.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	73.62	2,898,564.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.23	3,198,357.00 <i>gal</i>
Application event totals		101.92	20.69	128.42	662.18	
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)	Amount
Rio Bravo ID	Surface water	0.00	0.00	0.00	83.98	3,306,497.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	83.98	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.87	18.45	114.49	517.94	1,252,195.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	91.47	3,601,549.00 <i>gal</i>
Application event totals		90.87	18.45	114.49	609.41	
08/24/2023	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
Rio Bravo ID	Surface water	0.00	0.00	0.00	81.30	3,200,943.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	81.30	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.23	16.65	100.38	1,080.70	1,059,991.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	83.75	3,297,524.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.39	5,075,994.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	67.33	5,071,229.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.95	5,569,884.00 <i>gal</i>
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 <i>gal</i>
Application event totals		0.00	0.00	0.00	91.26	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.86	19.66	122.05	552.13	2,553,654.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	74.10	5,581,554.00 <i>gal</i>
Application event totals		96.86	19.66	122.05	626.23	
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
Rio Bravo ID	Surface water	0.00	0.00	0.00	87.29	6,574,951.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	87.29	
08/04/2023	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	92.31	18.74	116.31	526.18	2,433,657.00 <i>gal</i>
Rio Bravo ID	Surface water	0.00	0.00	0.00	73.95	5,569,852.00 <i>gal</i>
Application event totals		92.31	18.74	116.31	600.13	
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
Rio Bravo ID	Surface water	0.00	0.00	0.00	87.25	6,571,973.00 <i>gal</i>
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 <i>gal</i>
Rio Bravo ID		Surface water	0.00	0.00	0.00	87.21	6,568,954.00 <i>gal</i>
Application event totals			76.99	15.63	97.01	526.05	
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	80.45	6,059,886.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	80.45	

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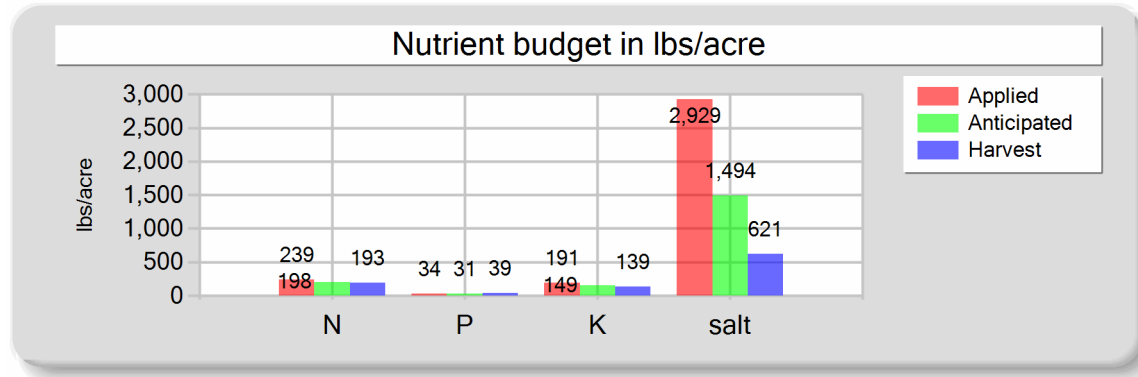
B. NUTRIENT BUDGET

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	26,915,325.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	991.20 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.39 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	231.77	33.76	190.99	2,732.54	Process wastewater applied
Fresh water	0.00	0.00	0.00	196.53	6,857,516.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	252.54 <i>acre-inches</i>
Total nutrients applied	238.77	33.76	190.99	2,929.07	3.16 <i>inches/acre</i>
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	Total harvests for the crop
Nutrient balance	45.46	-4.90	52.34	2,307.82	1 <i>harvests</i>
Applied to removed ratio	1.24	0.87	1.38	4.71	

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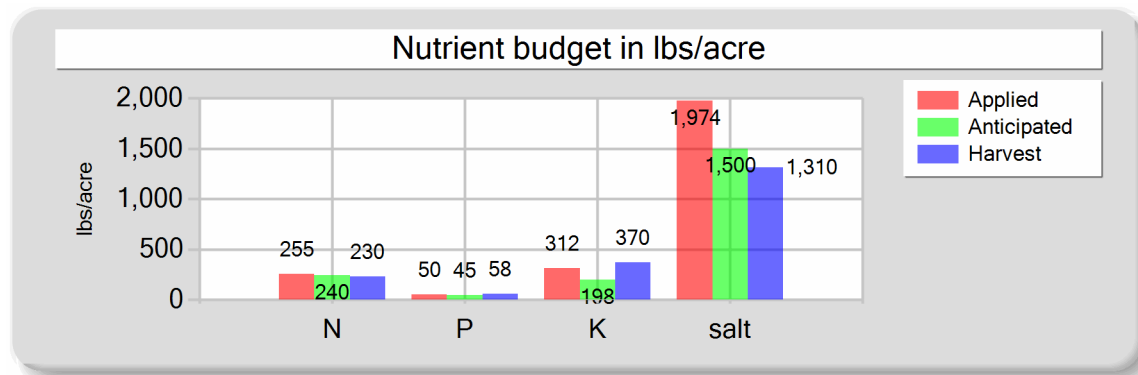
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L1 - 06/25/2023: Corn, silage

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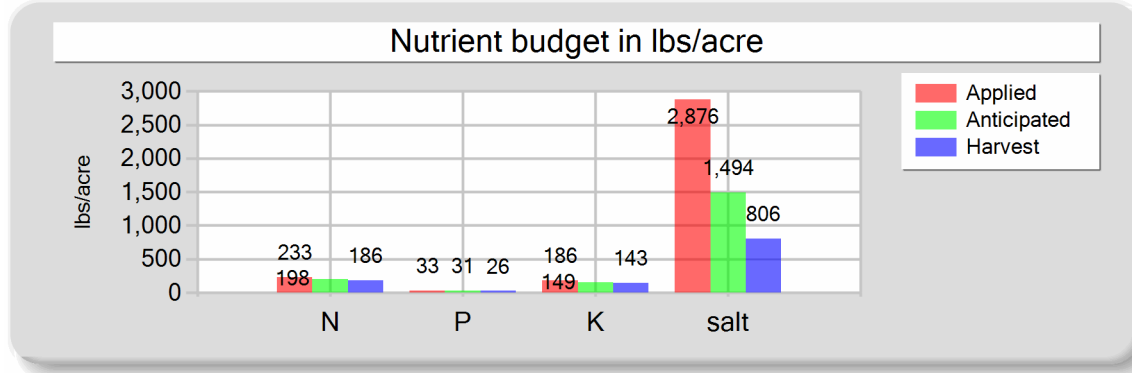
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,044.38 <i>acre-inches</i>
13.39 <i>inches/acre</i>

Process wastewater applied
6,517,887.00 <i>gallons</i>
240.03 <i>acre-inches</i>
3.08 <i>inches/acre</i>

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

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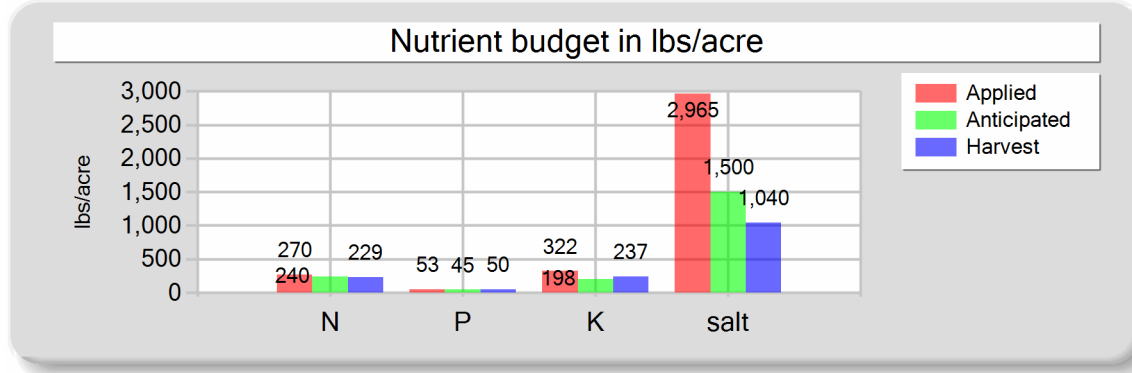
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L2 - 06/25/2023: Corn, silage

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 <i>gallons</i>
2,766.54 <i>acre-inches</i>
35.47 <i>inches/acre</i>

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

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

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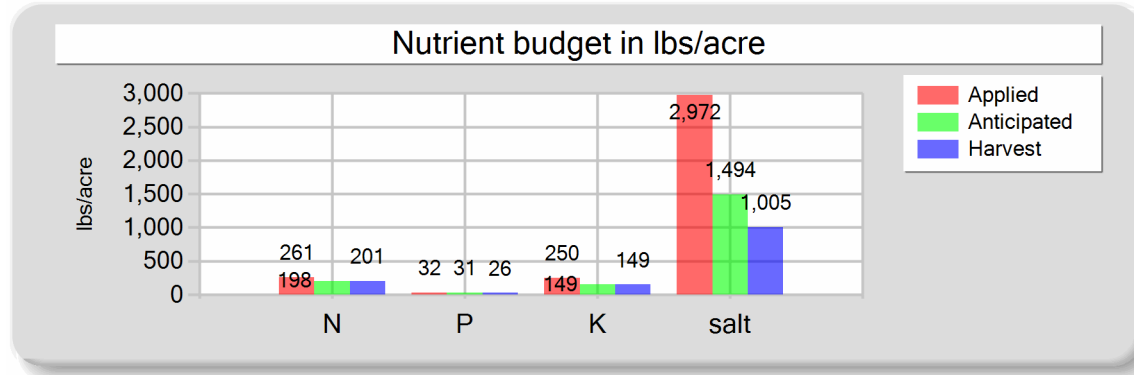
Reporting period 01/01/2023 to 12/31/2023.

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)
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	254.21	32.48	250.35	2,788.65
Fresh water	0.00	0.00	0.00	183.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	261.21	32.48	250.35	2,972.20
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	201.01	25.83	149.35	1,005.06
Nutrient balance	60.20	6.65	101.00	1,967.14
Applied to removed ratio	1.30	1.26	1.68	2.96

Fresh water applied
9,426,174.00 <i>gallons</i>
347.13 <i>acre-inches</i>
11.57 <i>inches/acre</i>

Process wastewater applied
2,522,527.00 <i>gallons</i>
92.90 <i>acre-inches</i>
3.10 <i>inches/acre</i>

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

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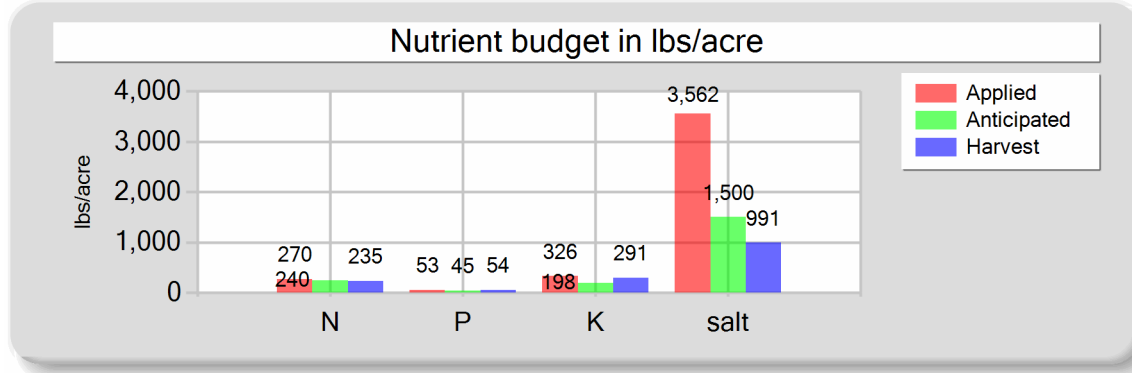
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,103.71 <i>acre-inches</i>
36.79 <i>inches/acre</i>

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

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

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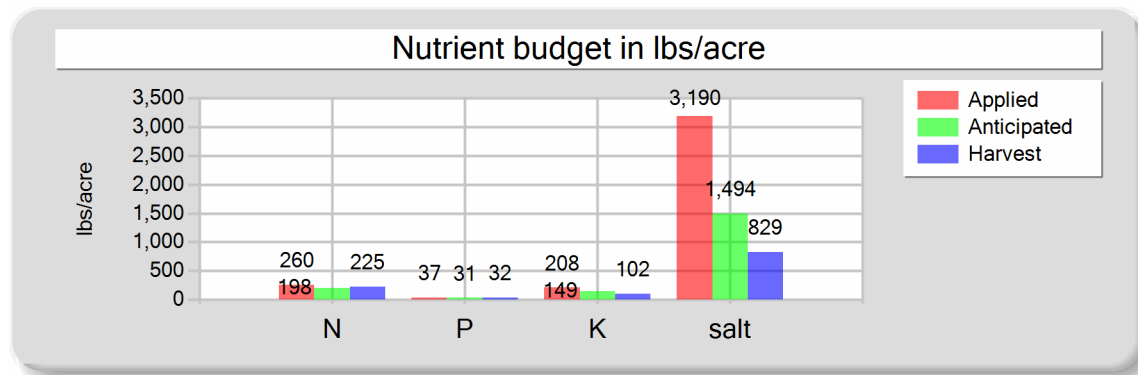
Reporting period 01/01/2023 to 12/31/2023.

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	18,098,818.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	666.52 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.33 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	252.61	36.80	208.17	2,978.30	Process wastewater applied
Fresh water	0.00	0.00	0.00	211.45	4,671,423.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	172.03 <i>acre-inches</i>
Total nutrients applied	259.61	36.80	208.17	3,189.75	3.44 <i>inches/acre</i>
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	Total harvests for the crop
Nutrient balance	34.72	5.05	106.31	2,360.30	1 <i>harvests</i>
Applied to removed ratio	1.15	1.16	2.04	3.85	

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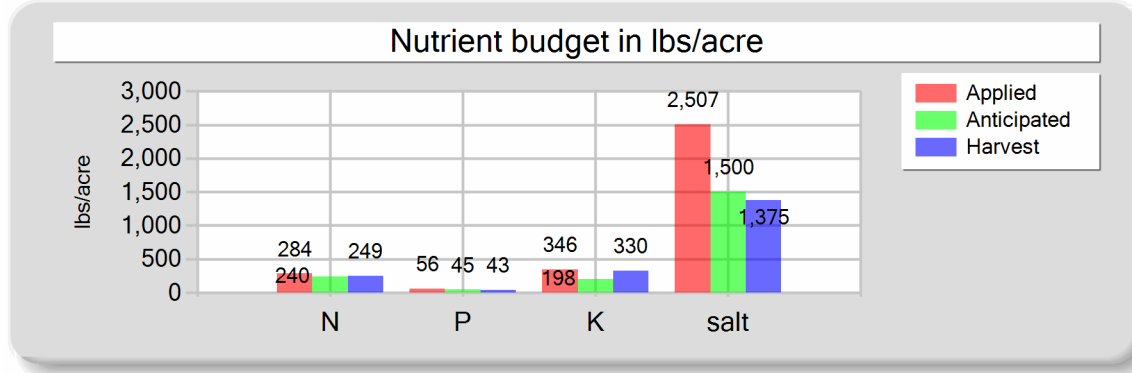
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,722.33 <i>acre-inches</i>
34.45 <i>inches/acre</i>

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

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

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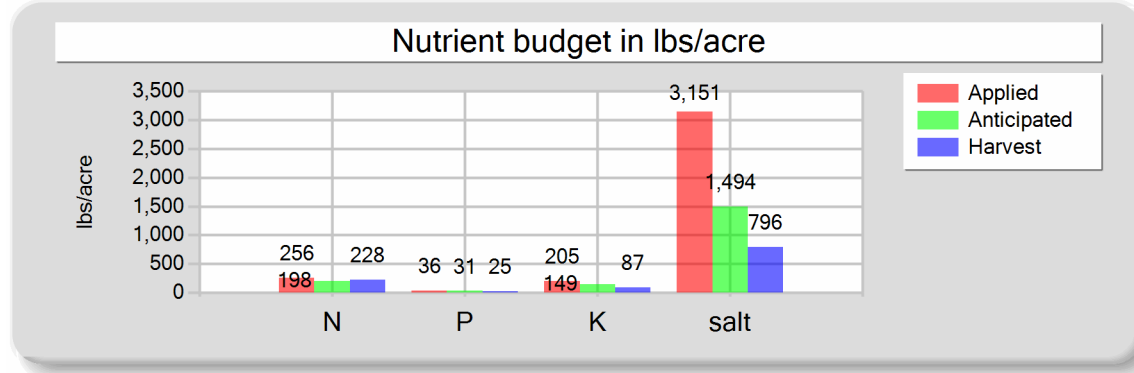
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: L5

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	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 <i>gallons</i>
481.19 <i>acre-inches</i>
13.37 <i>inches/acre</i>

Process wastewater applied
3,319,575.00 <i>gallons</i>
122.25 <i>acre-inches</i>
3.40 <i>inches/acre</i>

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

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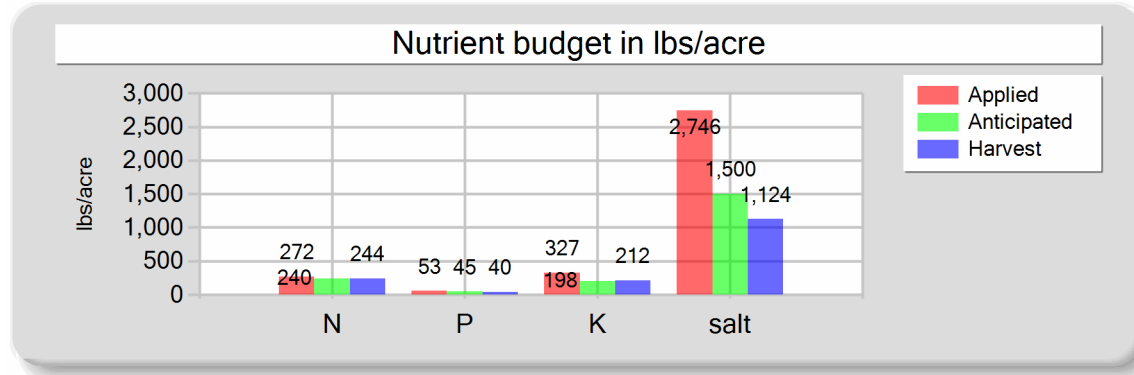
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,344.55 <i>acre-inches</i>
37.35 <i>inches/acre</i>

Process wastewater applied
5,540,259.00 <i>gallons</i>
204.03 <i>acre-inches</i>
5.67 <i>inches/acre</i>

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

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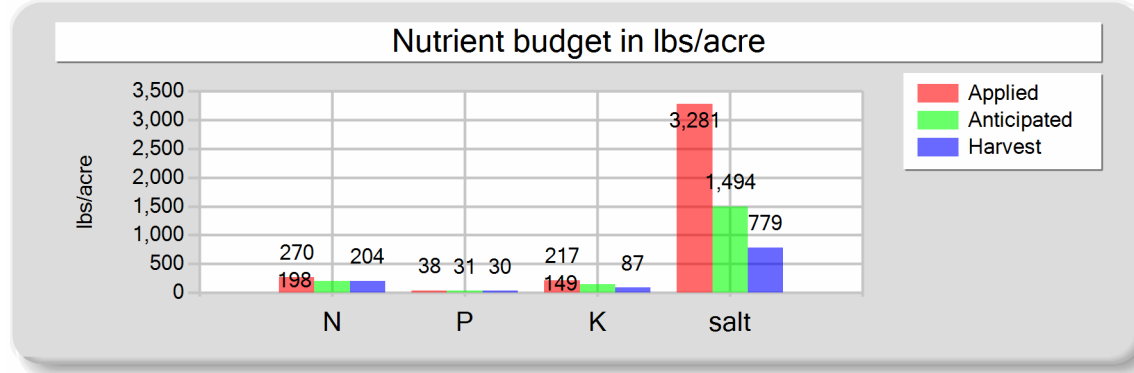
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: L6

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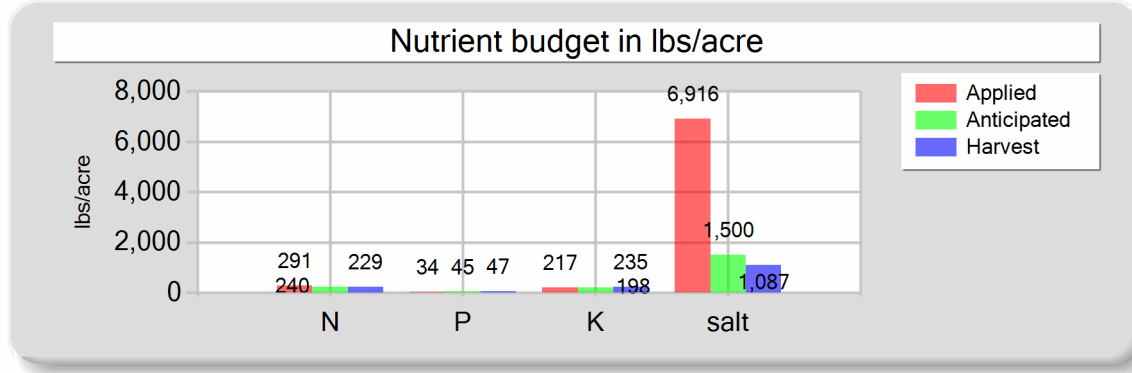
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
650.73 <i>acre-inches</i>
36.15 <i>inches/acre</i>

Process wastewater applied
1,704,990.00 <i>gallons</i>
62.79 <i>acre-inches</i>
3.49 <i>inches/acre</i>

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

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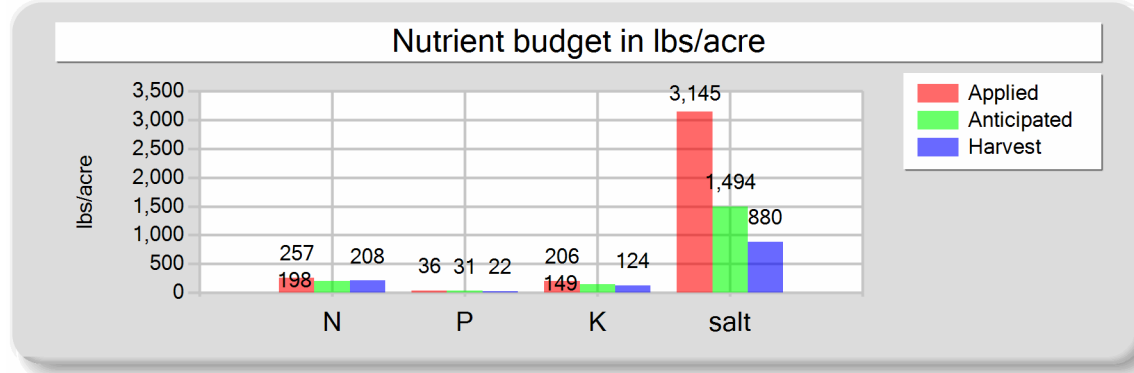
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: L7

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)
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 <i>gallons</i>
280.23 <i>acre-inches</i>
12.18 <i>inches/acre</i>

Process wastewater applied
2,129,791.00 <i>gallons</i>
78.43 <i>acre-inches</i>
3.41 <i>inches/acre</i>

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

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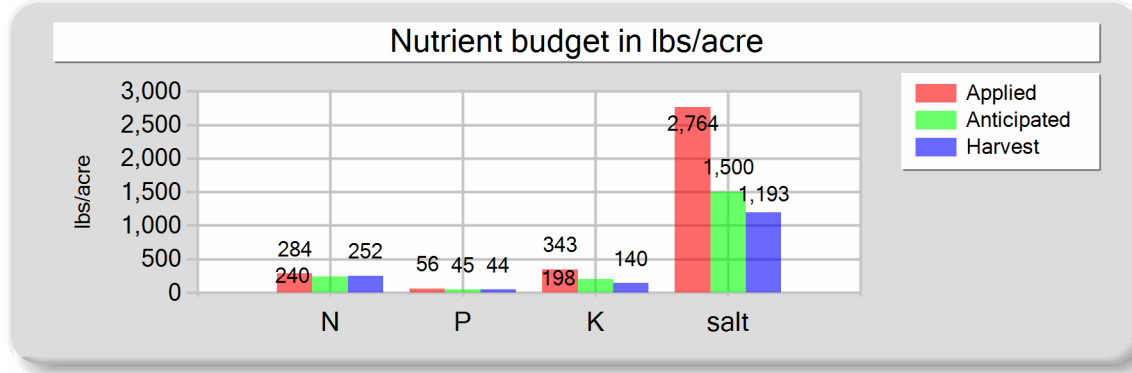
Reporting period 01/01/2023 to 12/31/2023.

L7 - 06/27/2023: Corn, silage

Field name: L7

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	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 <i>gallons</i>
847.33 <i>acre-inches</i>
36.84 <i>inches/acre</i>

Process wastewater applied
3,716,737.00 <i>gallons</i>
136.87 <i>acre-inches</i>
5.95 <i>inches/acre</i>

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

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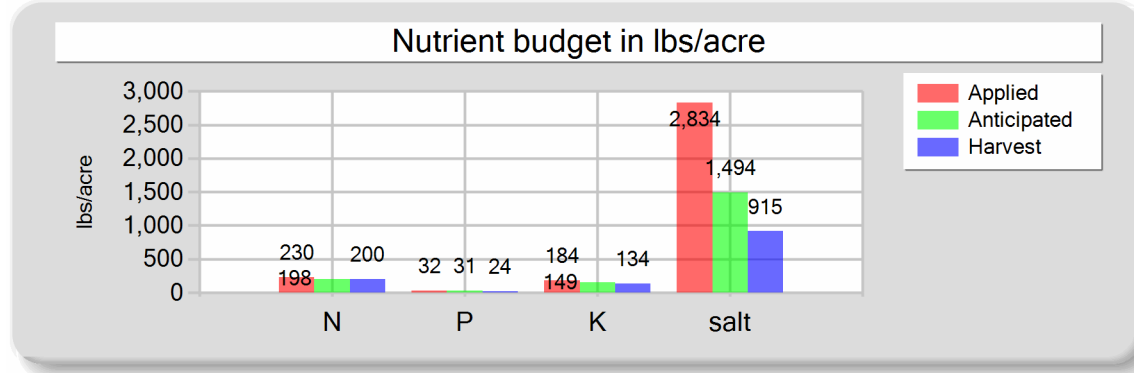
Reporting period 01/01/2023 to 12/31/2023.

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)
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	222.68	32.44	183.51	2,625.45
Fresh water	0.00	0.00	0.00	208.66
Atmospheric deposition	7.00	0.00	0.00	0.00
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

Fresh water applied
15,717,107.00 <i>gallons</i>
578.81 <i>acre-inches</i>
13.15 <i>inches/acre</i>

Process wastewater applied
3,623,821.00 <i>gallons</i>
133.45 <i>acre-inches</i>
3.03 <i>inches/acre</i>

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

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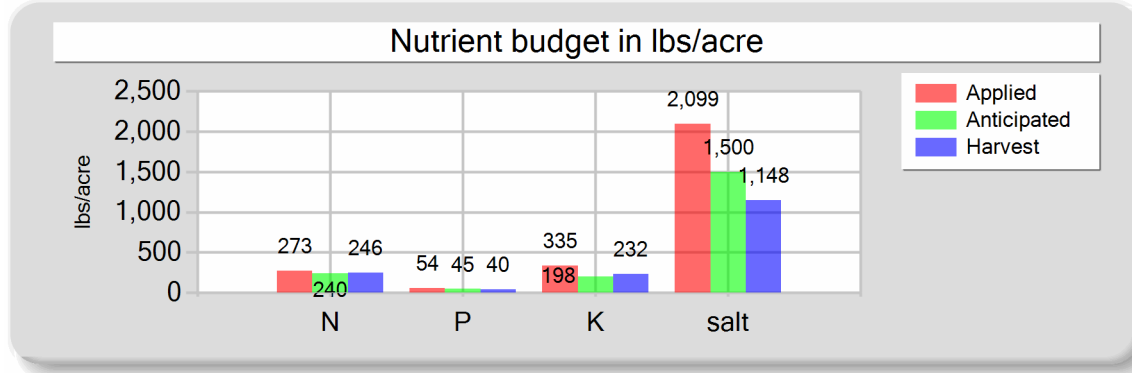
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,613.05 <i>acre-inches</i>
36.66 <i>inches/acre</i>

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

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

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

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

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

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

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

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Lagoon

Sample and source description: Lagoon

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	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 Well

Sample 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 Water

Sample 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

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

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

L2 - 06/25/2023: Corn, silage**Corn**Sample and source description: CornSample date: 10/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 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: WheatSample date: 04/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 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: CornSample date: 10/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 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

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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

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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

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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

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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

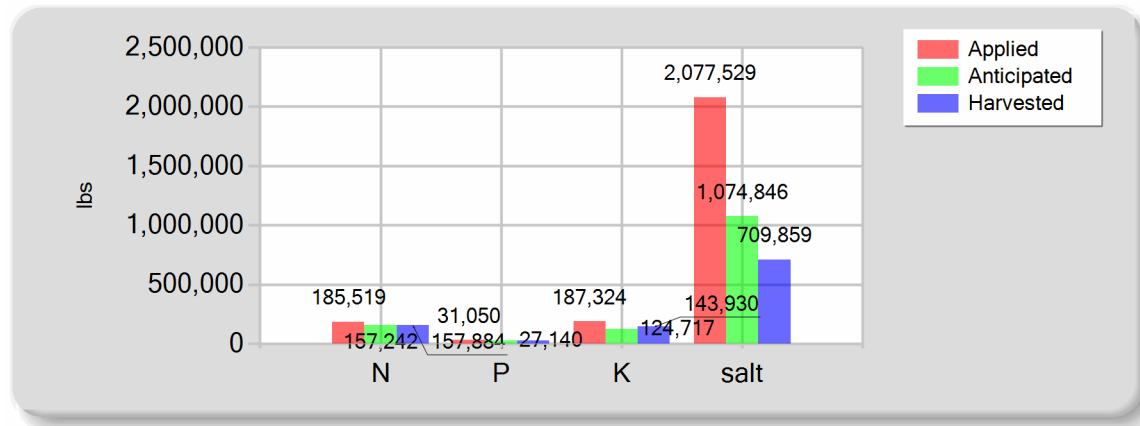
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

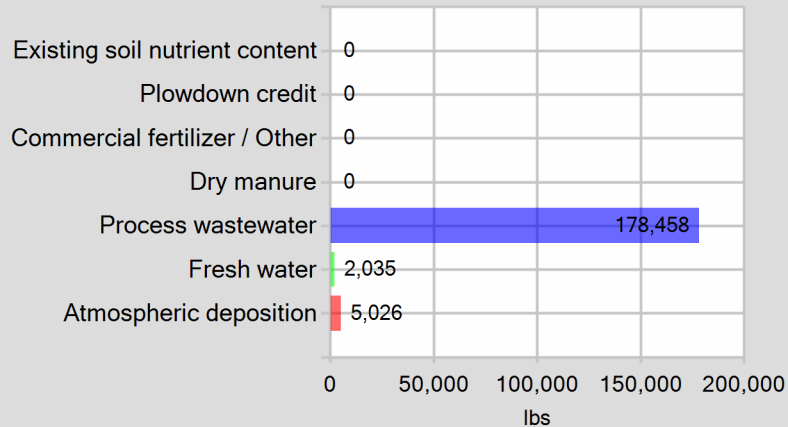
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	178,458.44	31,050.28	187,324.42	1,729,559.38
Fresh water	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

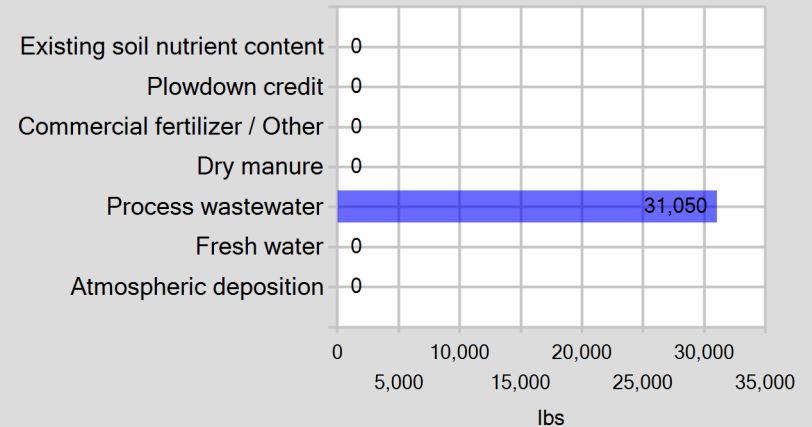


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

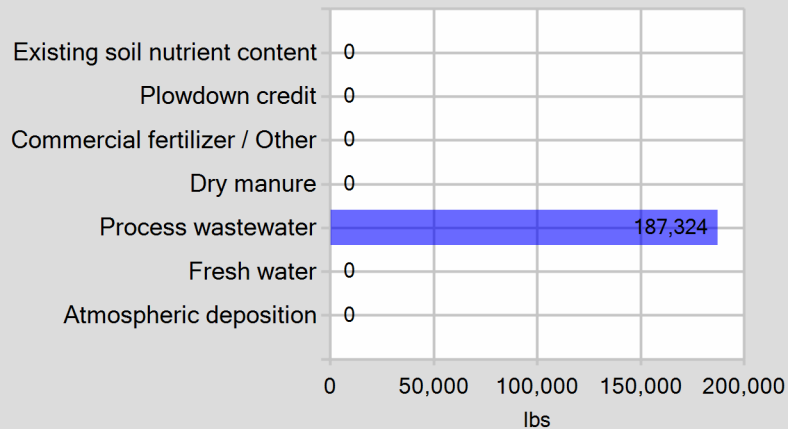
Pounds of nitrogen applied



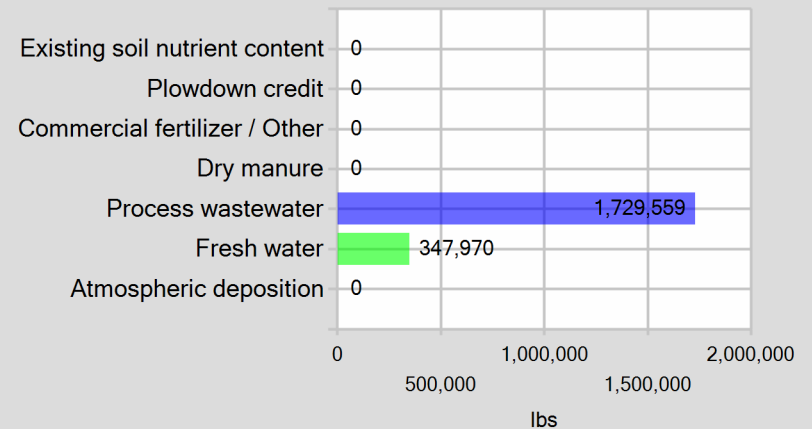
Pounds of phosphorus applied



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 Baldiviez
 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

July 17, 2023

Sentry Ag Services

Attn: Monique Baldiviez
 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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
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

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 Empresa 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

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	Blank	mg/L	993.7	ND	<20	
			LCS	mg/L		101%	90-110	
		(SP 2311099-001)	Dup	mg/L		0.3%	5	
		(SP 2311099-001)	Dup	mg/L		0.2%	5	
Nitrogen, Total Kjeldahl	351.2	07/11/2023:207567STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		97.7%	73-124	
			MS	mg/L		92.5%	54-136	
			MSD	mg/L		91.2%	54-136	
		(STK2338587-006)	MSRPD	mg/L	12.00	1.4%	≤27	
			MS	mg/L		97.1%	54-136	
			MSD	mg/L		96.0%	54-136	
			MSRPD	mg/L		1.1%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/29/2023:207183LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.0%	80-120	
			MS	mg/L		94.6%	66-125	
			MSD	mg/L		95.5%	66-125	
		(VI 2344345-001)	MSRPD	mg/L		0.5%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/29/2023:207183LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.0%	80-120	
			MS	mg/L		94.6%	66-125	
			MSD	mg/L		95.5%	66-125	
		(VI 2344345-001)	MSRPD	mg/L		0.5%	≤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.



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: _____

ROI
5.4

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: _____

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: _____

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 I.D.	Canal	W2	6/18/23 8:16	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 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	Klay Mitchell	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? | <u>Yes</u> | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <u>Yes</u> | No | |
| 5. VOAs checked for Headspace? | Yes | No | <u>N/A</u> |
| 6. Were sample custody seals intact? | Yes | No | <u>N/A</u> |
| 7. If required, was sample split for pH analysis? | Yes | No | <u>N/A</u> |
| 8. Were all analyses within holding times at time of receipt? | <u>Yes</u> | No | |
| 9. Verify sample date, time and sampler name | <u>Yes</u> | 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): 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:

591678703 / 7 / 691 / 696

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

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

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

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

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: _____
Initiated By: _____
Problem: _____
Resolution: _____

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

(4019696)
Sentry Ag Service
VI 2344347
iv 06/28/2023 11:43:17

VI 2344347

December 22, 2023

Sentry Ag Services
 Attn: Monique Baldiviez
 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

December 22, 2023

Sentry Ag Services

Attn: Monique Baldiviez

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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
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.

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 Empresa 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

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	mg/L		ND	<1	
			LCS	mg/L	12.00	99.1%	85-115	
			MS	mg/L	12.00	95.7%	75-125	
			MSD	mg/L	12.00	75.8%	75-125	
			MSRPD	mg/L		3.1%	≤20.0	
			MS	mg/L	12.00	123%	75-125	
			MSD	mg/L	12.00	92.7%	75-125	
			MSRPD	mg/L		3.2%	≤20.0	
Magnesium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	97.8%	85-115	
			MS	mg/L	12.00	103%	75-125	
			MSD	mg/L	12.00	99.2%	75-125	
			MSRPD	mg/L		3.1%	≤20	
			MS	mg/L	12.00	112%	75-125	
			MSD	mg/L	12.00	92.4%	75-125	
			MSRPD	mg/L		5.1%	≤20	
Potassium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	98.4%	85-115	
			MS	mg/L	12.00	100%	75-125	
			MSD	mg/L	12.00	97.3%	75-125	
			MSRPD	mg/L		3.0%	≤20.0	
			MS	mg/L	12.00	105%	75-125	
			MSD	mg/L	12.00	100%	75-125	
			MSRPD	mg/L		3.0%	≤20.0	
Sodium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	93.7%	85-115	
			MS	mg/L	12.00	101%	75-125	
			MSD	mg/L	12.00	85.0%	75-125	
			MSRPD	mg/L		2.9%	≤20.0	
			MS	mg/L	12.00	158%	<¼	406
			MSD	mg/L	12.00	56.2%	<1/4	
			MSRPD	mg/L		6.2%	≤20.0	

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 CaCO ₃)	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		ND	<20	
		(SP 2320140-001)	LCS	mg/L	991.5	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	
			LCS	mg/L	25.00	98.5%	90-110	
			MS	mg/L	50.00	102%	67-117	
		(CH 2373985-001)	MSD	mg/L	50.00	102%	67-117	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	50.00	100%	67-117	
		(VI 2348252-001)	MSD	mg/L	50.00	101%	67-117	
			MSRPD	mg/L		0.8%	≤7	
Nitrate Nitrogen	300.0	12/07/2023:213946LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	96.6%	90-110	
			MS	mg/L	40.00	101%	86-112	
		(CH 2373985-001)	MSD	mg/L	40.00	101%	86-112	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	40.00	101%	86-112	
		(VI 2348252-001)	MSD	mg/L	40.00	102%	86-112	
			MSRPD	mg/L		0.9%	≤7	
Sulfate Sulfur	300.0	12/07/2023:213946LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	99.8%	90-110	
			MS	mg/L	100.0	103%	18-165	
		(CH 2373985-001)	MSD	mg/L	100.0	103%	18-165	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	100.0	102%	18-165	
		(VI 2348252-001)	MSD	mg/L	100.0	103%	18-165	
			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: Bidar+ III

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: _____

7.8°C RI
TH 407

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: _____

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: _____

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	Dom. Well	W4	12/6/23 1020	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 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	Klay	JAS		12/6/23 1247
2 nd	ASB	FGL	12/6/23 1247	
3 rd	ASB	FGL		12/6/23 1730
4 th	GLS	GLS	12/6/23 1730	

LABORATORY USE ONLY

Logged In By: _____

Total Samples: _____

Laboratory No.: _____

GLS rhrh3
rhrh

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VD

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° / / /

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: 6 Shipping tracking #(s): 52054003, 52054004, 52054005, 52054006, 52054007, 52054008

2. Temp IR Gun ID #: 1166

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): LL

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: _____

Initiated By: _____

Problem: _____

Resolution: _____

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>BIDANT DAIRY #3</u>				
Facility Address: <u>25820 STOCKDALE HWY</u>		<u>BKMN</u>	<u>93314</u>	
Number and Street		City	Zip Code	
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.A.J.</u>				
Address of Hauling Company /Person: <u>9440 BEM MIN</u>		<u>BKMN</u>	<u>93311</u>	
Number and Street		City	Zip Code	
Contact Person: <u>FRAN AMIREN</u>				
Name			Phone Number <u>661-978-9321</u>	
Destination Information:				
Composting Facility / Broker <input checked="" type="radio"/> Farmer <input type="radio"/> Other (identify) _____ (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
<u>B-BAG</u>	<u>PMU 23251</u>	<u>SNW</u>	<u>BKMN</u>	<u>93314</u>
Name	Number and Street	City	Zip Code	Phone Number <u>661-578-297</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>1208.40</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): _____				

Method used to determine amount of manure: <u>D.M.</u>	
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) <input type="checkbox"/> Yes <input type="checkbox"/> 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. _____ (Operator shall provide initials here to acknowledge this requirement).	
Certification: I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.	
Operator's Signature: <u>[Signature]</u>	Date: <u>5/14/24</u>
Hauler's Signature: <u>[Signature]</u>	Date: <u>5/14/24</u>