

**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:** A.T.O. Dairy

Physical address of dairy:

19249 S Fruit AVE

Number and Street

Riverdale

Fresno

93656

City

County

Zip Code

Street and nearest cross street (if no address): \_\_\_\_\_

Date facility was originally placed in operation: 01/01/1983

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

County Assessor Parcel Number(s) for dairy facility:

0055-0043-0019-0000

**B. OPERATORS**

Ormonde, Andrew

Operator name: Ormonde, Andrew

Telephone no.: (559) 284-1047

Landline

Cellular

19241 S Fruit AVE

Riverdale

CA

93242

Mailing Address Number and Street

City

State

Zip Code

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

**C. OWNERS**

Ormonde, Andrew

Legal owner name: Ormonde, Andrew

Telephone no.: (559) 284-1047

Landline

Cellular

19241 S Fruit AVE

Riverdale

CA

93242

Mailing Address Number and Street

City

State

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**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	850	100	350	300	150	0
Number under roof	0	0	0	0	0	0
Maximum number	850	100	350	300	150	0
Average number	850	100	350	300	150	0
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 68 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 30,121.71 tons per reporting period

Total nitrogen from manure: 370,064.50 lbs per reporting period

After ammonia losses (30% loss applied): 259,045.15 lbs per reporting period

Total phosphorus from manure: 61,171.54 lbs per reporting period

Total potassium from manure: 161,665.94 lbs per reporting period

Total salt from manure: 423,217.50 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 49,740,000 gallons

Total nitrogen generated: 149,183.65 lbs

Total phosphorus generated: 12,045.79 lbs

Total potassium generated: 97,169.79 lbs

Total salt generated: 468,317.98 lbs

<u>49,740,000 gallons applied</u>	
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>49,740,000 gallons generated</u>

**D. FRESH WATER SOURCES**

Source Description	Type
Canal	Surface water
D1&D2	Ground water

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**E. SUBSURFACE (TILE) DRAINAGE SOURCES**

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

*No solid nutrient exports entered.*

*No liquid nutrient exports entered.*

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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
401	85	85	0	none	X055-X021-X045-XXXX X055-X021-X062-XXXX
402	129	129	0	none	X055-X021-X045-XXXX X055-X021-X062-XXXX
403	75	75	2	process wastewater	X055-X043-X018-XXXX
404	77	77	2	process wastewater	X055-X041-X002-XXXX
405	18	18	2	process wastewater	X055-X043-X019-XXXX
406	77	77	0	none	X055-X041-X002-XXXX
407	77	77	1	process wastewater	X055-X043-X022-XXXX
408	77	77	1	process wastewater	X055-X043-X022-XXXX
410	80	80	0	none	X053-X440-X012-XXXX
411	75	75	2	manure	X055-X440-X001-XXXX
F1	39	39	2	manure	X055-X043-X020-XXXX X055-X043-X021-XXXX
F2	90	90	2	manure	X055-X260-X004-XXXX
F3	37	37	1	manure	X055-X043-X020-XXXX X055-X043-X021-XXXX
Totals for areas that were used for application	565	565	15		
Totals for areas that were not used for application	371	371	0		
Land application area totals	936	936	15		

**B. CROPS AND HARVESTS**

403

Field name: 403

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

403

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

Crop: Wheat, silage, boot stage      Acres planted: 75      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,500.00 <i>ton</i>	Dry-weight		60.7	24,600.00	4,800.00	32,100.00		10.29

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	20.00	386.71	75.46	504.61	1,617.59

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 75      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	2,250.00 <i>ton</i>	Dry-weight		63.8	8,300.00	3,100.00	15,600.00		6.16

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.00	180.28	67.33	338.83	1,337.95

404

Field name: 404

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

Crop: Wheat, silage, boot stage      Acres planted: 77      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,540.00 <i>ton</i>	Dry-weight		63.6	14,900.00	4,800.00	33,600.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	20.00	216.94	69.89	489.22	1,456.00

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404

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	2,310.00 <i>ton</i>	Dry-weight		64.6	14,900.00	3,400.00	14,800.00		6.32

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.00	316.48	72.22	314.35	1,342.37

405

Field name: 405

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

Crop: Wheat, silage, boot stage      Acres planted: 18      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	360.00 <i>ton</i>	Dry-weight		61.6	15,500.00	3,900.00	27,100.00		10.41

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	20.00	238.08	59.90	416.26	1,598.98

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 18      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	540.00 <i>ton</i>	Dry-weight		65.2	7,500.00	2,700.00	16,000.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.00	156.60	56.38	334.08	1,294.56

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407

Field name: 407

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

Crop: Wheat, silage, boot stage      Acres planted: 77      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,540.00 ton	Dry-weight		63.0	24,400.00	4,000.00	28,900.00		11.15

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	20.00	361.12	59.20	427.72	1,650.20

408

Field name: 408

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	2,310.00 ton	Dry-weight		67.6	8,000.00	2,200.00	18,900.00		6.28

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.00	155.52	42.77	367.42	1,220.83

411

Field name: 411

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411

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

Crop: Wheat, silage, boot stage      Acres planted: 75      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,500.00 ton	Dry-weight		64.0	18,400.00	4,400.00	29,500.00		9.41

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	20.00	264.96	63.36	424.80	1,355.04

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 75      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	2,250.00 ton	Dry-weight		67.3	24,800.00	2,100.00	15,900.00		6.51

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.00	486.58	41.20	311.96	1,277.26

F1

Field name: F1

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

Crop: Wheat, silage, boot stage      Acres planted: 39      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	780.00 ton	Dry-weight		65.6	27,100.00	4,200.00	28,500.00		10.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	20.00	372.90	57.79	392.16	1,442.05

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F1

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 39      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	1,170.00 <i>ton</i>	Dry-weight		58.9	14,800.00	2,000.00	16,500.00		9.46
Anticipated harvest content									
Total actual harvest content									

F2

Field name: F2

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

Crop: Wheat, silage, boot stage      Acres planted: 90      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,800.00 <i>ton</i>	Dry-weight		65.9	17,400.00	4,800.00	30,200.00		10.28
Anticipated harvest content									
Total actual harvest content									

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 90      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	2,700.00 <i>ton</i>	Dry-weight		67.8	18,800.00	2,800.00	17,900.00		6.32
Anticipated harvest content									
Total actual harvest content									

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F3

Field name: F3

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 37      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	1,110.00 ton	Dry-weight		65.9	19,900.00	2,800.00	15,200.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.00	407.15	57.29	310.99	1,227.60

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**NUTRIENT BUDGET****A. LAND APPLICATIONS**

403 - 11/01/2022: Wheat, silage, boot stage

Field name: 403

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	155.93	16.96	148.35	671.63	2,750,000.00 gal
Application event totals		155.93	16.96	148.35	671.63	
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	155.93	16.96	148.35	671.63	2,750,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.38	7,776,000.00 gal
Application event totals		155.93	16.96	148.35	682.02	
03/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	155.93	16.96	148.35	671.63	2,750,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.38	7,776,000.00 gal
Application event totals		155.93	16.96	148.35	682.02	

403 - 06/01/2023: Corn, silage

Field name: 403

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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403 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.39	10,776,000.00 gal
Application event totals		0.00	0.00	0.00	14.39	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	70.82	2.66	13.53	95.33	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.39	10,776,000.00 gal
Application event totals		70.82	2.66	13.53	109.72	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.39	10,776,000.00 gal
Application event totals		0.00	0.00	0.00	14.39	
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
Canal	Surface water	0.00	0.00	0.00	14.39	10,776,000.00 gal
Application event totals		0.00	0.00	0.00	14.39	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	70.82	2.66	13.53	95.33	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.39	10,776,000.00 gal
Application event totals		70.82	2.66	13.53	109.72	

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403 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	70.82	2.66	13.53	95.33	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.39	10,776,000.00 gal
Application event totals		70.82	2.66	13.53	109.72	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.39	10,776,000.00 gal
Application event totals		0.00	0.00	0.00	14.39	

404 - 11/01/2022: Wheat, silage, boot stage

Field name: 404

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	140.83	15.32	133.99	606.61	2,550,000.00 gal
Application event totals		140.83	15.32	133.99	606.61	
02/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	140.83	15.32	133.99	606.61	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.11	7,776,000.00 gal
Application event totals		140.83	15.32	133.99	616.72	

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404 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.11	7,776,000.00 gal
Application event totals		0.00	0.00	0.00	10.11	

404 - 06/01/2023: Corn, silage

Field name: 404

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/04/2023	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
Canal	Surface water	0.00	0.00	0.00	14.01	10,776,000.00 gal
Application event totals		0.00	0.00	0.00	14.01	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	68.98	2.59	13.18	92.86	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.01	10,776,000.00 gal
Application event totals		68.98	2.59	13.18	106.87	
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
WW	Process wastewater	68.98	2.59	13.18	92.86	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.01	10,776,000.00 gal
Application event totals		68.98	2.59	13.18	106.87	

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404 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WW	Process wastewater	68.98	2.59	13.18	92.86	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.01	10,776,000.00 gal
Application event totals		68.98	2.59	13.18	106.87	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	68.98	2.59	13.18	92.86	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.01	10,776,000.00 gal
Application event totals		68.98	2.59	13.18	106.87	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	68.98	2.59	13.18	92.86	2,550,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.01	10,776,000.00 gal
Application event totals		68.98	2.59	13.18	106.87	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.01	10,776,000.00 gal
Application event totals		0.00	0.00	0.00	14.01	

405 - 11/01/2022: Wheat, silage, boot stage

Field name: 405

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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405 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/21/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	85.05	9.25	80.92	366.35	360,000.00 gal
Application event totals		85.05	9.25	80.92	366.35	
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
WW	Process wastewater	85.05	9.25	80.92	366.35	360,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.34	960,000.00 gal
Application event totals		85.05	9.25	80.92	371.69	
03/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	85.05	9.25	80.92	366.35	360,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.34	960,000.00 gal
Application event totals		85.05	9.25	80.92	371.69	

405 - 06/01/2023: Corn, silage

Field name:	405	Plant date:	06/01/2023	
Crop:	Corn, silage			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Canal	Surface water	0.00	0.00	0.00
Application event totals		0.00	0.00	0.00
				13.91
				2,500,000.00 gal

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405 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.91	2,500,000.00 gal
Application event totals		0.00	0.00	0.00	13.91	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	76.37	2.87	14.60	102.81	660,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.91	2,500,000.00 gal
Application event totals		76.37	2.87	14.60	116.72	
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
Canal	Surface water	0.00	0.00	0.00	13.91	2,500,000.00 gal
Application event totals		0.00	0.00	0.00	13.91	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	76.37	2.87	14.60	102.81	660,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.91	2,500,000.00 gal
Application event totals		76.37	2.87	14.60	116.72	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.91	2,500,000.00 gal
Application event totals		0.00	0.00	0.00	13.91	

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405 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	51.94	2.86	14.47	92.41	660,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.91	2,500,000.00 gal
Application event totals		51.94	2.86	14.47	106.32	

407 - 11/01/2022: Wheat, silage, boot stage

Field name: 407

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	124.82	13.58	118.75	537.62	2,260,000.00 gal
Application event totals		124.82	13.58	118.75	537.62	
02/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	124.82	13.58	118.75	537.62	2,260,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.77	7,512,000.00 gal
Application event totals		124.82	13.58	118.75	547.39	
03/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	124.82	13.58	118.75	537.62	2,260,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.77	7,512,000.00 gal
Application event totals		124.82	13.58	118.75	547.39	

408 - 06/01/2023: Corn, silage

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408 - 06/01/2023: Corn, silage

Field name: 408

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

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
Canal	Surface water	0.00	0.00	0.00	13.67	10,512,000.00 gal
Application event totals		0.00	0.00	0.00	13.67	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	55.45	2.08	10.60	74.65	2,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.67	10,512,000.00 gal
Application event totals		55.45	2.08	10.60	88.32	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.67	10,512,000.00 gal
Application event totals		0.00	0.00	0.00	13.67	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	55.45	2.08	10.60	74.65	2,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.67	10,512,000.00 gal
Application event totals		55.45	2.08	10.60	88.32	
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
Canal	Surface water	0.00	0.00	0.00	13.67	10,512,000.00 gal
Application event totals		0.00	0.00	0.00	13.67	

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408 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	55.45	2.08	10.60	74.65	2,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.67	10,512,000.00 gal
Application event totals		55.45	2.08	10.60	88.32	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.67	10,512,000.00 gal
Application event totals		0.00	0.00	0.00	13.67	

411 - 11/01/2022: Wheat, silage, boot stage

Field name: 411

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	357.53	105.40	349.27	7,879.33	775.00 ton
Application event totals		357.53	105.40	349.27	7,879.33	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	
03/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	

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411 - 06/01/2023: Corn, silage

Field name: 411

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	288.00	132.00	584.00	14,226.72	1,500.00 ton
Application event totals		288.00	132.00	584.00	14,226.72	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	

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411 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	
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
Canal	Surface water	0.00	0.00	0.00	14.42	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	

F1 - 11/01/2022: Wheat, silage, boot stage

Field name:	F1					
Crop:	Wheat, silage, boot stage					
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	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
Dry Manure	Corral solids	369.23	169.23	748.72	18,239.38	1,000.00 ton
Application event totals		369.23	169.23	748.72	18,239.38	
02/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.37	3,650,000.00 gal
Application event totals		0.00	0.00	0.00	9.37	

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F1 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.37	3,650,000.00 gal
Application event totals		0.00	0.00	0.00	9.37	

F1 - 06/01/2023: Corn, silage

Field name: F1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	443.08	203.08	898.46	21,887.26	1,200.00 ton
Application event totals		443.08	203.08	898.46	21,887.26	
07/03/2023	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
Canal	Surface water	0.00	0.00	0.00	14.51	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	14.51	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.51	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	14.51	
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
Canal	Surface water	0.00	0.00	0.00	14.51	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	14.51	

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F1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	14.51	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	14.51	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.51	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	14.51	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.51	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	14.51	
09/03/2023	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
Canal	Surface water	0.00	0.00	0.00	14.51	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	14.51	

F2 - 11/01/2022: Wheat, silage, boot stage

Field name: F2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	297.94	87.83	291.06	6,566.11	775.00 ton
Application event totals		297.94	87.83	291.06	6,566.11	

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F2 - 11/01/2022: Wheat, silage, boot stage

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
Canal	Surface water	0.00	0.00	0.00	11.70	10,516,000.00 gal
Application event totals		0.00	0.00	0.00	11.70	
03/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.70	10,516,000.00 gal
Application event totals		0.00	0.00	0.00	11.70	

F2 - 06/01/2023: Corn, silage

Field name: F2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	240.00	110.00	486.67	11,855.60	1,500.00 ton
Application event totals		240.00	110.00	486.67	11,855.60	
07/04/2023	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
Canal	Surface water	0.00	0.00	0.00	13.93	12,516,000.00 gal
Application event totals		0.00	0.00	0.00	13.93	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.93	12,516,000.00 gal
Application event totals		0.00	0.00	0.00	13.93	

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F2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	13.93	12,516,000.00 gal
Application event totals		0.00	0.00	0.00	13.93	
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
Canal	Surface water	0.00	0.00	0.00	13.93	12,516,000.00 gal
Application event totals		0.00	0.00	0.00	13.93	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.93	12,516,000.00 gal
Application event totals		0.00	0.00	0.00	13.93	
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
Canal	Surface water	0.00	0.00	0.00	13.93	12,516,000.00 gal
Application event totals		0.00	0.00	0.00	13.93	
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
Canal	Surface water	0.00	0.00	0.00	13.93	12,516,000.00 gal
Application event totals		0.00	0.00	0.00	13.93	

F3 - 06/01/2023: Corn, silage

Field name: F3

Crop: Corn, silage

Plant date: 06/01/2023

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

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

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

F3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	467.03	214.05	947.03	23,070.36	1,200.00 ton
Application event totals		467.03	214.05	947.03	23,070.36	
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
Canal	Surface water	0.00	0.00	0.00	15.29	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	15.29	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.29	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	15.29	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.29	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	15.29	
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
Canal	Surface water	0.00	0.00	0.00	15.29	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	15.29	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.29	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	15.29	

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F3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.29	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	15.29	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.29	5,650,000.00 gal
Application event totals		0.00	0.00	0.00	15.29	

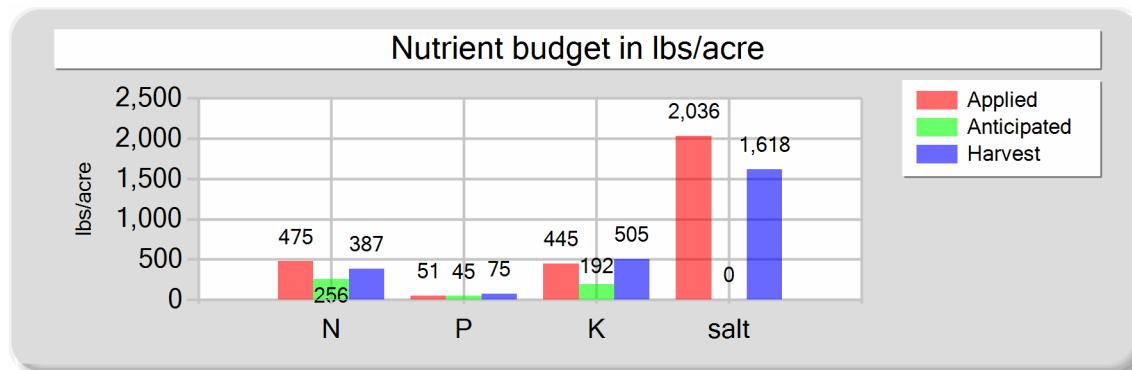
**Annual Report - General Order No. R5-2007-0035**

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

**B. NUTRIENT BUDGET**

403 - 11/01/2022: Wheat, silage, boot stage

Field name: 403      Crop: Wheat, silage, boot stage      Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	15,552,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	572.73 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.64 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	467.79	50.89	445.06	2,014.90	Process wastewater applied
Fresh water	0.00	0.00	0.00	20.77	8,250,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	303.82 acre-inches
Total nutrients applied	474.79	50.89	445.06	2,035.67	4.05 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	Total harvests for the crop
Actual crop nutrient removal	386.71	75.46	504.61	1,617.59	1 harvests
Nutrient balance	88.08	-24.56	-59.55	418.08	
Applied to removed ratio	1.23	0.67	0.88	1.26	

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

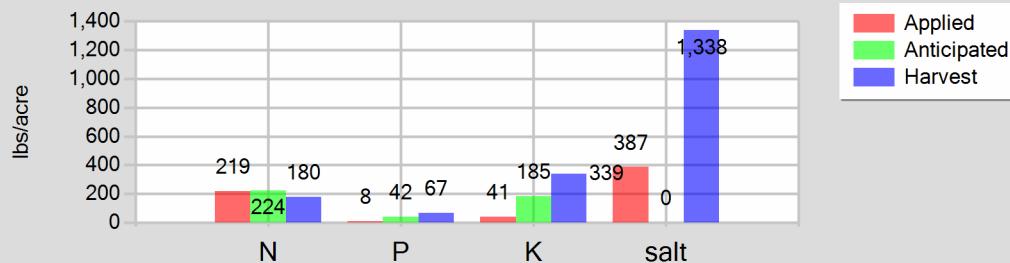
403 - 06/01/2023: Corn, silage

Field name: 403

Crop: Corn, silage

Plant date: 06/01/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	212.46	7.98	40.60	286.00
Fresh water	0.00	0.00	0.00	100.72
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	219.46	7.98	40.60	386.72
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	180.28	67.33	338.83	1,337.95
Nutrient balance	39.18	-59.35	-298.23	-951.24
Applied to removed ratio	1.22	0.12	0.12	0.29

**Fresh water applied**

75,432,000.00 gallons  
2,777.90 acre-inches  
37.04 inches/acre

**Process wastewater applied**

7,650,000.00 gallons  
281.72 acre-inches  
3.76 inches/acre

**Total harvests for the crop**

1 harvests

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

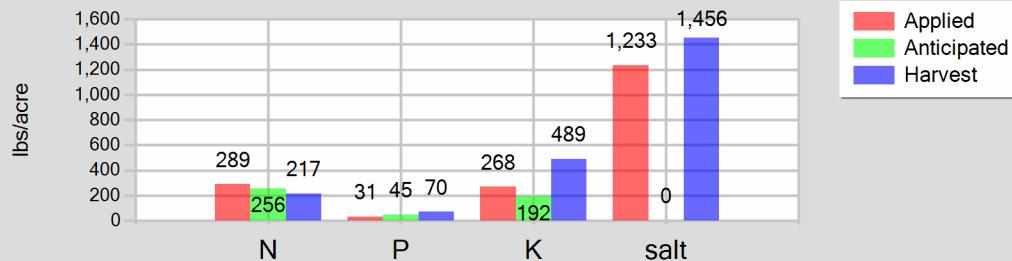
404 - 11/01/2022: Wheat, silage, boot stage

Field name: 404

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	15,552,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	572.73 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.44 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	281.67	30.64	267.98	1,213.22	5,100,000.00 gallons
Fresh water	0.00	0.00	0.00	20.23	187.82 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.44 inches/acre
Total nutrients applied	288.67	30.64	267.98	1,233.45	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	216.94	69.89	489.22	1,456.00	
Nutrient balance	71.72	-39.25	-221.23	-222.55	
Applied to removed ratio	1.33	0.44	0.55	0.85	
Total harvests for the crop					1 harvests

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

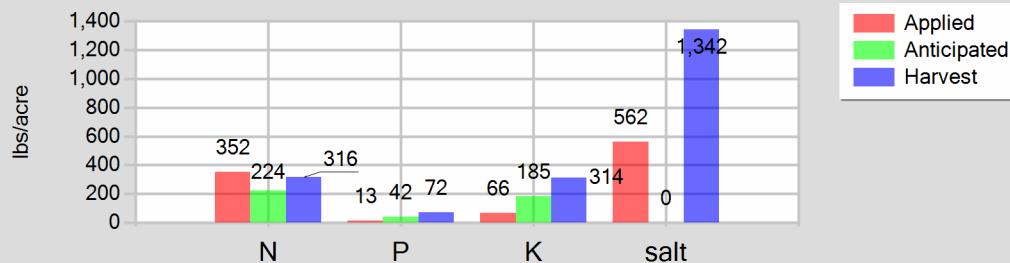
404 - 06/01/2023: Corn, silage

Field name: 404

Crop: Corn, silage

Plant date: 06/01/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	344.90	12.96	65.91	464.29
Fresh water	0.00	0.00	0.00	98.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.90	12.96	65.91	562.39
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	316.48	72.22	314.35	1,342.37
Nutrient balance	35.42	-59.25	-248.44	-779.98
Applied to removed ratio	1.11	0.18	0.21	0.42

**Fresh water applied**

75,432,000.00 gallons  
2,777.90 acre-inches  
36.08 inches/acre

**Process wastewater applied**

12,750,000.00 gallons  
469.54 acre-inches  
6.10 inches/acre

**Total harvests for the crop**

1 harvests

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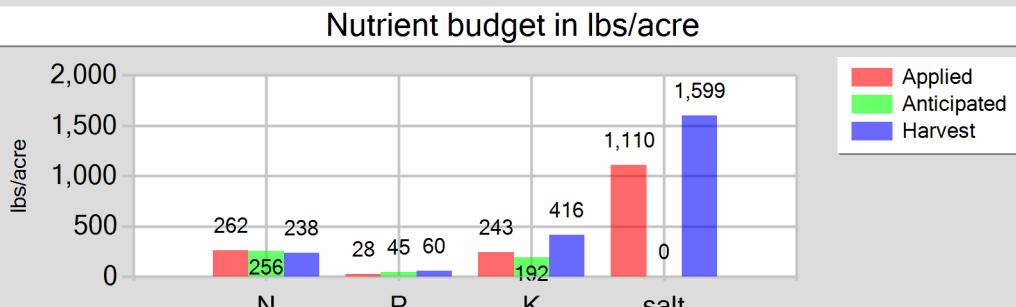
Reporting period 01/01/2023 to 12/31/2023.

405 - 11/01/2022: Wheat, silage, boot stage

Field name: 405

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	255.16	27.76	242.76	1,099.04
Fresh water	0.00	0.00	0.00	10.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	262.16	27.76	242.76	1,109.72
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	238.08	59.90	416.26	1,598.98
Nutrient balance	24.08	-32.15	-173.50	-489.26
Applied to removed ratio	1.10	0.46	0.58	0.69

**Fresh water applied**

1,920,000.00 gallons
70.71 acre-inches
3.93 inches/acre

**Process wastewater applied**

1,080,000.00 gallons
39.77 acre-inches
2.21 inches/acre

**Total harvests for the crop**

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

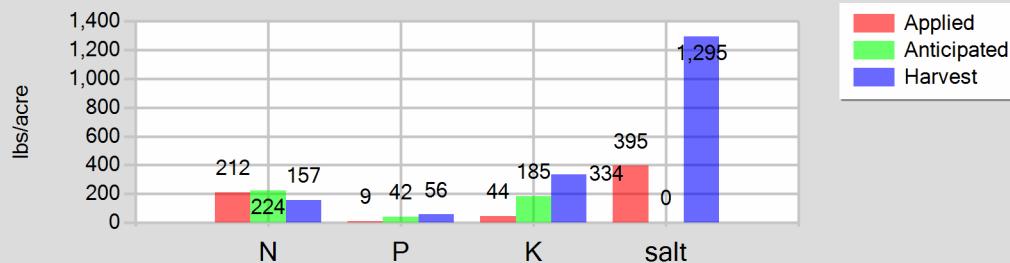
405 - 06/01/2023: Corn, silage

Field name: 405

Crop: Corn, silage

Plant date: 06/01/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	204.69	8.60	43.66	298.03
Fresh water	0.00	0.00	0.00	97.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	211.69	8.60	43.66	395.39
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	156.60	56.38	334.08	1,294.56
Nutrient balance	55.09	-47.77	-290.42	-899.17
Applied to removed ratio	1.35	0.15	0.13	0.31

**Fresh water applied**

17,500,000.00 gallons  
644.47 acre-inches  
35.80 inches/acre

**Process wastewater applied**

1,980,000.00 gallons  
72.92 acre-inches  
4.05 inches/acre

**Total harvests for the crop**

1 harvests

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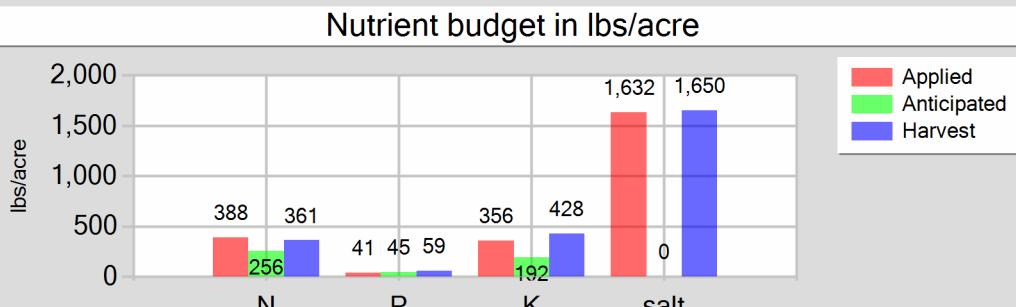
Reporting period 01/01/2023 to 12/31/2023.

407 - 11/01/2022: Wheat, silage, boot stage

Field name: 407

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	374.45	40.74	356.26	1,612.87
Fresh water	0.00	0.00	0.00	19.54
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	388.45	40.74	356.26	1,632.41
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	361.12	59.20	427.72	1,650.20
Nutrient balance	27.33	-18.46	-71.46	-17.79
Applied to removed ratio	1.08	0.69	0.83	0.99

**Fresh water applied**

15,024,000.00 gallons  
553.28 acre-inches  
7.19 inches/acre

**Process wastewater applied**

6,780,000.00 gallons  
249.68 acre-inches  
3.24 inches/acre

**Total harvests for the crop**

1 harvests

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

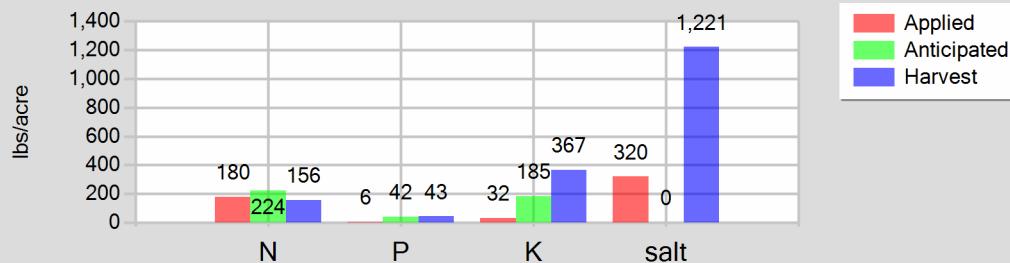
408 - 06/01/2023: Corn, silage

Field name: 408

Crop: Corn, silage

Plant date: 06/01/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	166.36	6.25	31.79	223.95
Fresh water	0.00	0.00	0.00	95.70
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	180.36	6.25	31.79	319.65
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	155.52	42.77	367.42	1,220.83
Nutrient balance	24.84	-36.52	-335.62	-901.19
Applied to removed ratio	1.16	0.15	0.09	0.26

**Fresh water applied**

73,584,000.00 gallons  
2,709.85 acre-inches  
35.19 inches/acre

**Process wastewater applied**

6,150,000.00 gallons  
226.48 acre-inches  
2.94 inches/acre

**Total harvests for the crop**

1 harvests

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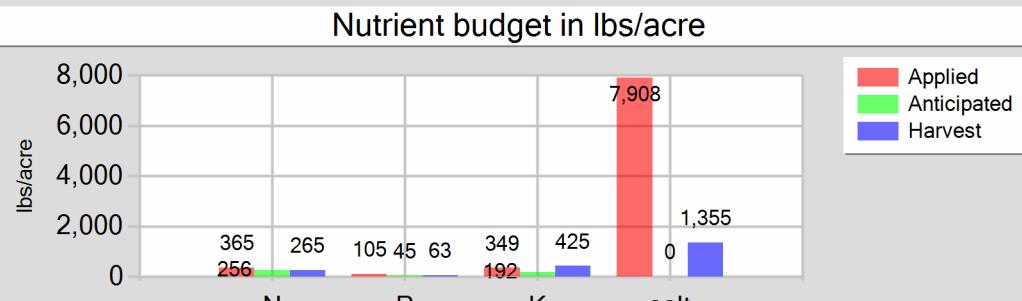
Reporting period 01/01/2023 to 12/31/2023.

411 - 11/01/2022: Wheat, silage, boot stage

Field name: 411

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	357.53	105.40	349.27	7,879.33
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	28.84
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	364.53	105.40	349.27	7,908.17
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	264.96	63.36	424.80	1,355.04
Nutrient balance	99.57	42.04	-75.53	6,553.13
Applied to removed ratio	1.38	1.66	0.82	5.84

**Fresh water applied**

21,600,000.00 gallons  
795.45 acre-inches  
10.61 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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

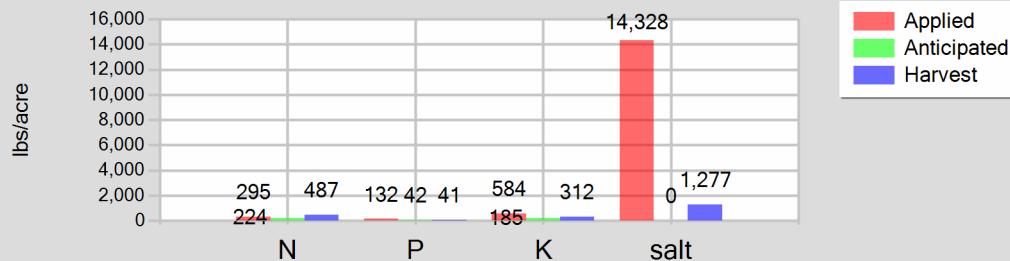
411 - 06/01/2023: Corn, silage

Field name: 411

Crop: Corn, silage

Plant date: 06/01/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	75,600,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,784.09 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.12 inches/acre
Dry manure	288.00	132.00	584.00	14,226.72	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	0.00	0.00	0.00	100.94	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	295.00	132.00	584.00	14,327.66	0.00 inches/acre
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	486.58	41.20	311.96	1,277.26	Total harvests for the crop
Nutrient balance	-191.58	90.80	272.04	13,050.40	1 harvests
Applied to removed ratio	0.61	3.20	1.87	11.22	

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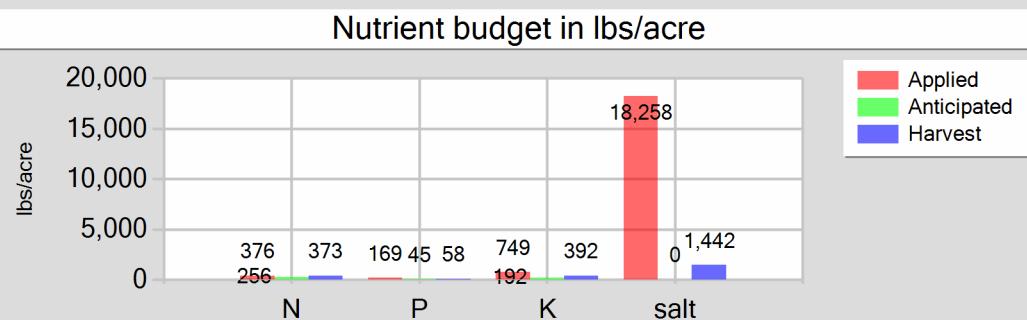
Reporting period 01/01/2023 to 12/31/2023.

F1 - 11/01/2022: Wheat, silage, boot stage

Field name: F1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	369.23	169.23	748.72	18,239.38
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	18.74
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>376.23</b>	<b>169.23</b>	<b>748.72</b>	<b>18,258.13</b>
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	372.90	57.79	392.16	1,442.05
Nutrient balance	3.33	111.44	356.56	16,816.08
Applied to removed ratio	1.01	2.93	1.91	12.66

**Fresh water applied**  
7,300,000.00 gallons  
268.83 acre-inches  
6.89 inches/acre

**Process wastewater applied**  
0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

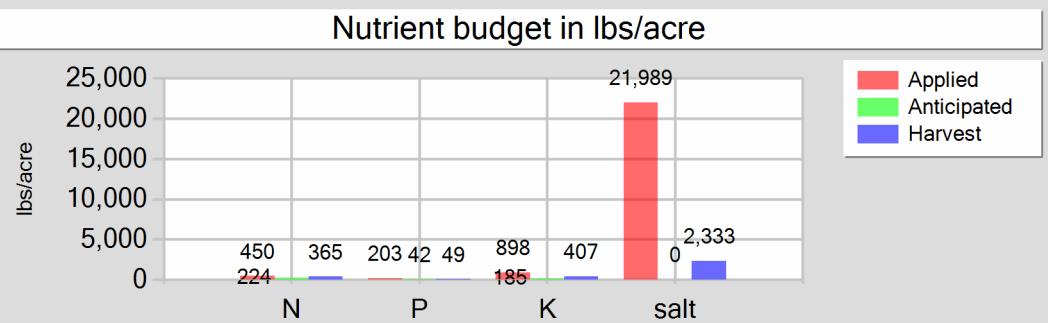
**Total harvests for the crop**  
1 harvests

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

F1 - 06/01/2023: Corn, silage

Field name: F1      Crop: Corn, silage      Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	443.08	203.08	898.46	21,887.26
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	101.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	450.08	203.08	898.46	21,988.81
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	364.97	49.32	406.89	2,332.84
Nutrient balance	85.11	153.76	491.57	19,655.98
Applied to removed ratio	1.23	4.12	2.21	9.43

**Fresh water applied**  
39,550,000.00 gallons  
1,456.49 acre-inches  
37.35 inches/acre

**Process wastewater applied**  
0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**  
1 harvests

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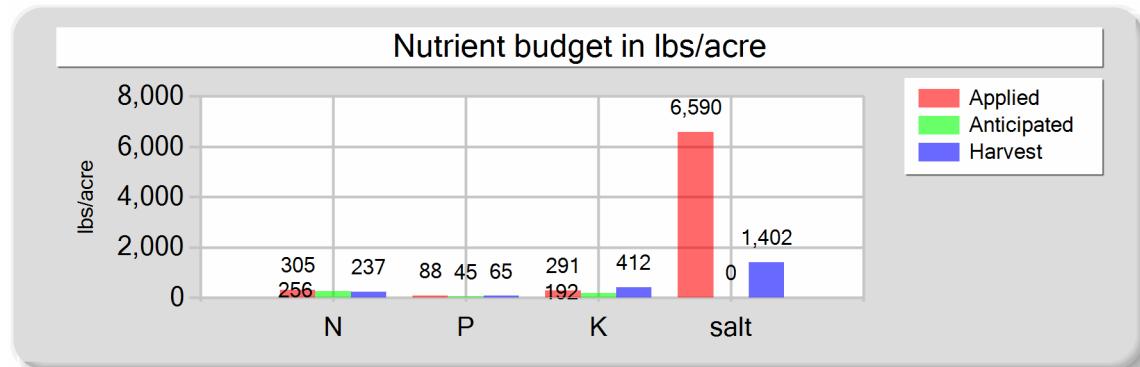
Reporting period 01/01/2023 to 12/31/2023.

F2 - 11/01/2022: Wheat, silage, boot stage

Field name: F2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	297.94	87.83	291.06	6,566.11
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	23.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.94	87.83	291.06	6,589.51
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	237.34	65.47	411.93	1,402.19
Nutrient balance	67.61	22.36	-120.87	5,187.32
Applied to removed ratio	1.28	1.34	0.71	4.70

Fresh water applied
21,032,000.00 gallons
774.54 acre-inches
8.61 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

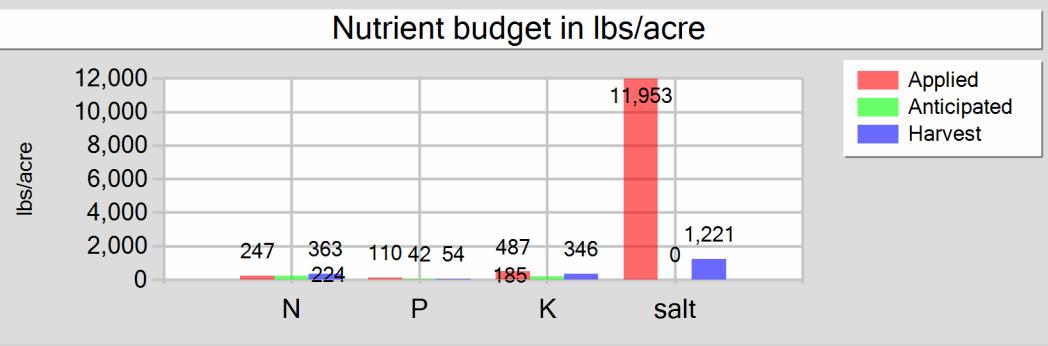
Total harvests for the crop
1 harvests

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

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

F2 - 06/01/2023: Corn, silage

Field name: F2      Crop: Corn, silage      Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	240.00	110.00	486.67	11,855.60
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	97.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	247.00	110.00	486.67	11,953.08
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	363.22	54.10	345.83	1,221.02
Nutrient balance	-116.22	55.90	140.84	10,732.06
Applied to removed ratio	0.68	2.03	1.41	9.79

**Fresh water applied**  
87,612,000.00 gallons  
3,226.45 acre-inches  
35.85 inches/acre

**Process wastewater applied**  
0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

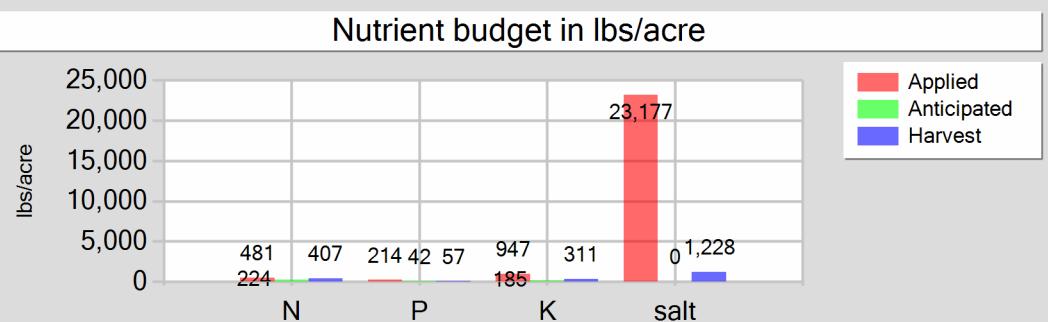
**Total harvests for the crop**  
1 harvests

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

F3 - 06/01/2023: Corn, silage

Field name: F3      Crop: Corn, silage      Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	467.03	214.05	947.03	23,070.36
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	107.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	481.03	214.05	947.03	23,177.40
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	407.15	57.29	310.99	1,227.60
Nutrient balance	73.87	156.77	636.04	21,949.80
Applied to removed ratio	1.18	3.74	3.05	18.88

**Fresh water applied**  
39,550,000.00 gallons  
1,456.49 acre-inches  
39.36 inches/acre

**Process wastewater applied**  
0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**  
1 harvests

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

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

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

Sample and source description: Dry Manure

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

Moisture: 35.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,200.00	3,300.00	14,600.00	9,600.00	5,600.00	5,300.00	2,600.00	595.28		55.40
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

**Dry Manure**

Sample and source description: Dry Manure

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

Moisture: 28.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,300.00	5,100.00	16,900.00							53.10
DL	100.00	100.00	100.00							1.00

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

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.60

	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	509.60	88.72	0.00	0.00	55.44	484.84								3,430.00	2,195
DL	67.00	0.57	0.01	0.01	0.64	0.57								1.00	19

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

**2nd Qtr WW**

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.51

	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)
<b>Value</b>	249.60	25.92	0.00	0.00	9.38	47.70	1.20	0.60	1.40	4.28	0.00	0.70	0.50	526.00	336
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.10	0.02	0.01	1.00	19

**3rd Qtr WW**

Sample and source description: 3rd Qtr WW

Sample date: 08/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.03

	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)
<b>Value</b>	169.76	25.43	0.00	0.00	9.35	47.30								473.00	302
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

**4th Qtr WW**

Sample and source description: 4th Qtr WW

Sample date: 12/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.39

	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)
<b>Value</b>	269.70	116.00	0.00	0.00	46.20	223.70								2,572.00	1,646
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

**C. FRESH WATER ANALYSES**

Canal

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

**Canal****Canal**Sample description: CanalSample date: 08/17/2023 Source of analysis: Lab analysis

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

**D1&D2****D1&D2**Sample description: D1&D2Sample date: 12/11/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.38										380.00	
DL	0.10										1.00	

**D. SOIL ANALYSES**

No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

403 - 11/01/2022: Wheat, silage, boot stage

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

403 - 11/01/2022: Wheat, silage, boot stage

403

Sample and source description: 403

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

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,600.00	4,800.00	32,100.00		10.29
<b>DL</b>	100.00	100.00	100.00		1.00

403 - 06/01/2023: Corn, silage

403

Sample and source description: 403

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	8,300.00	3,100.00	15,600.00		6.16
<b>DL</b>	100.00	100.00	100.00		1.00

404 - 11/01/2022: Wheat, silage, boot stage

404

Sample and source description: 404

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

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,900.00	4,800.00	33,600.00		10.00
<b>DL</b>	100.00	100.00	100.00		1.00

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404 - 06/01/2023: Corn, silage

404

Sample and source description: 404

Sample date: 09/26/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,900.00	3,400.00	14,800.00		6.32
<b>DL</b>	100.00	100.00	100.00		1.00

405 - 11/01/2022: Wheat, silage, boot stage

405

Sample and source description: 405

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

Moisture: 61.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,500.00	3,900.00	27,100.00		10.41
<b>DL</b>	100.00	100.00	100.00		1.00

405 - 06/01/2023: Corn, silage

405

Sample and source description: 405

Sample date: 09/26/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	7,500.00	2,700.00	16,000.00		6.20
<b>DL</b>	100.00	100.00	100.00		1.00

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407 - 11/01/2022: Wheat, silage, boot stage

407

Sample and source description: 407

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

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,400.00	4,000.00	28,900.00		11.15
<b>DL</b>	100.00	100.00	100.00		1.00

408 - 06/01/2023: Corn, silage

408

Sample and source description: 408

Sample date: 09/26/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	8,000.00	2,200.00	18,900.00		6.28
<b>DL</b>	100.00	100.00	100.00		1.00

411 - 11/01/2022: Wheat, silage, boot stage

411

Sample and source description: 411

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

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,400.00	4,400.00	29,500.00		9.41
<b>DL</b>	100.00	100.00	100.00		1.00

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411 - 06/01/2023: Corn, silage

411

Sample and source description: 411

Sample date: 09/26/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 67.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,800.00	2,100.00	15,900.00		6.51
<b>DL</b>	100.00	100.00	100.00		1.00

F1 - 11/01/2022: Wheat, silage, boot stage

F1

Sample and source description: F1

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

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	27,100.00	4,200.00	28,500.00		10.48
<b>DL</b>	100.00	100.00	100.00		1.00

F1 - 06/01/2023: Corn, silage

F1

Sample and source description: F1

Sample date: 09/26/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,800.00	2,000.00	16,500.00		9.46
<b>DL</b>	100.00	100.00	100.00		1.00

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F2 - 11/01/2022: Wheat, silage, boot stage

F2

Sample and source description: F2

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

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,400.00	4,800.00	30,200.00		10.28
<b>DL</b>	100.00	100.00	100.00		1.00

F2 - 06/01/2023: Corn, silage

f2

Sample and source description: f2

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,800.00	2,800.00	17,900.00		6.32
<b>DL</b>	100.00	100.00	100.00		1.00

F3 - 06/01/2023: Corn, silage

F3

Sample and source description: F3

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,900.00	2,800.00	15,200.00		6.00
<b>DL</b>	100.00	100.00	100.00		1.00

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

**F. SUBSURFACE (TILE) DRAINAGE ANALYSES**

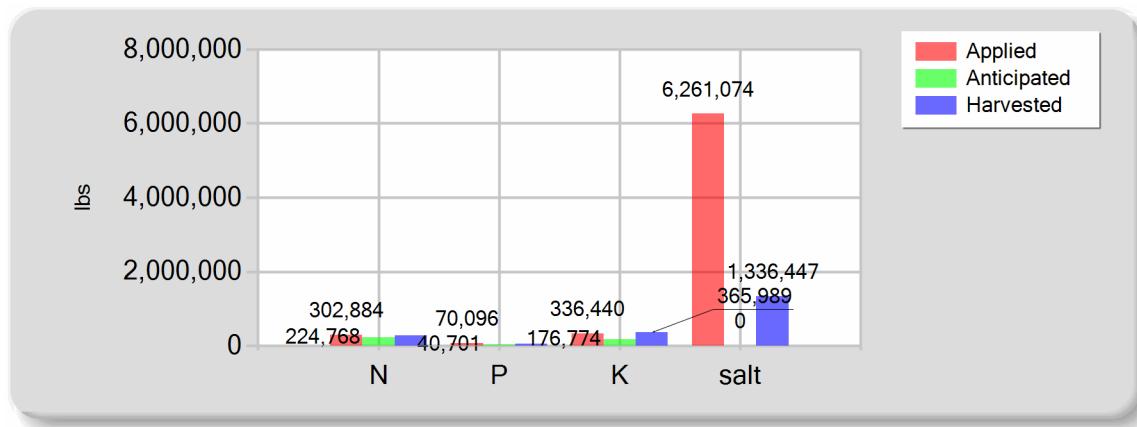
*No subsurface (tile) drainage analyses entered.*

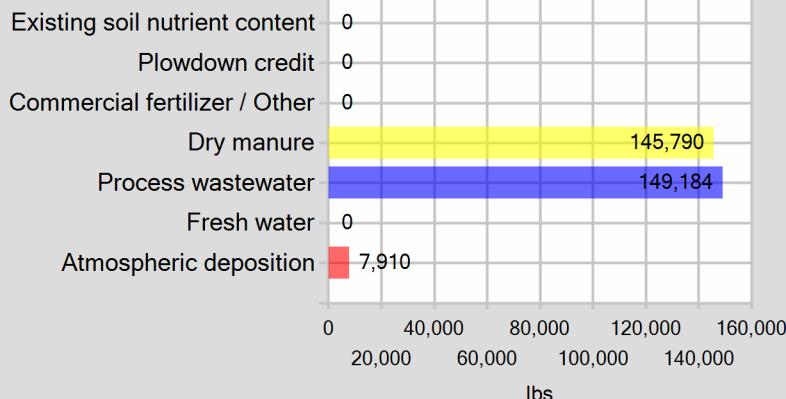
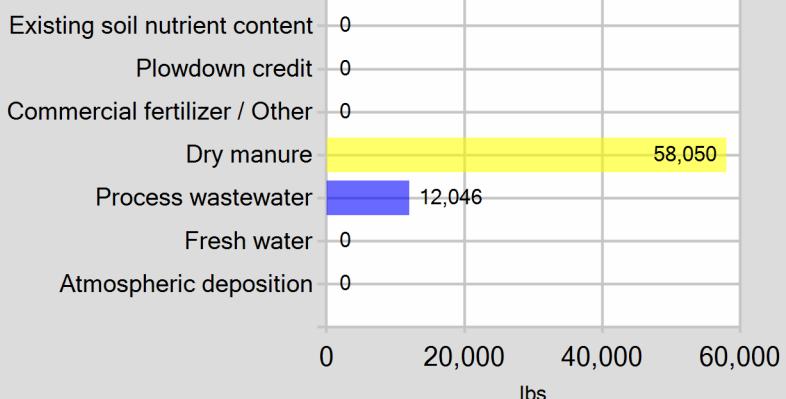
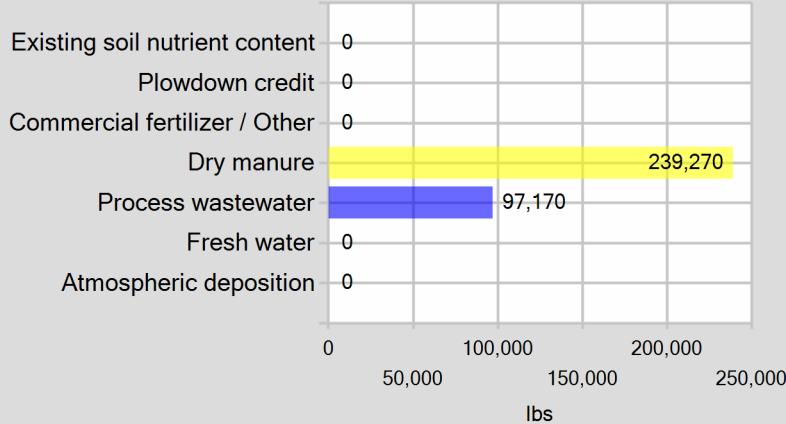
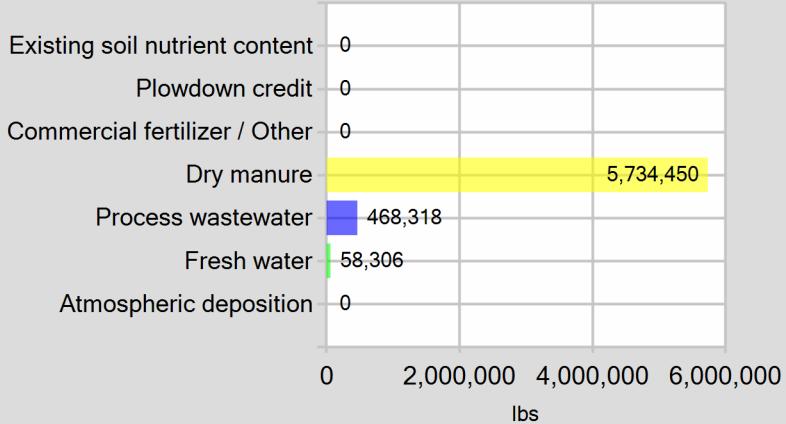
**Annual Report - General Order No. R5-2007-0035**

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	145,790.00	58,050.00	239,270.00	5,734,450.20
Process wastewater	149,183.65	12,045.79	97,169.79	468,317.98
Fresh water	0.00	0.00	0.00	58,305.51
Atmospheric deposition	7,910.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>302,883.65</b>	<b>70,095.79</b>	<b>336,439.79</b>	<b>6,261,073.69</b>
Anticipated crop nutrient removal	224,768.00	40,700.80	176,774.40	0.00
Actual crop nutrient removal	284,739.23	56,495.98	365,989.10	1,336,446.71
<b>Nutrient balance</b>	<b>18,144.41</b>	<b>13,599.81</b>	<b>-29,549.31</b>	<b>4,924,626.98</b>
Applied to removed ratio	1.06	1.24	0.92	4.68

**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**

**C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE****Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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

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

**EXCEPTION REPORTING**

**A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES**

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

*No manure or process wastewater discharges occurred during the reporting period.*

**B. STORM WATER DISCHARGES**

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility's Nutrient Management Plan.

*No stormwater discharges occurred during the reporting period.*

**C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES**

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

*No land application area to surface water discharges occurred during the reporting period.*

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

Was the facility's NMP updated in the reporting period? No

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

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

**ADDITIONAL NOTES**

**A. NOTES**

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

All wells were negative for Ammonia which we tested onsite using a test strip .

**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

Andrew Ormonde

PRINT OR TYPE NAME

---

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

---

DATE

---

DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Corrective Actions Documents**

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

**Groundwater Monitoring**

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

**Storm Water Monitoring**

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

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

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

CERTIFICATION

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

Andrew Ormonde

PRINT OR TYPE NAME



DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE



ATO Dairy  
19249 S Fruit Avenue  
Riverdale, CA 93656

Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40  
Reported: 12/18/2023 12:15

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0602-01	D1 & D2	Ag Water	Christina		12/11/2023 14:20

Default Cooler      Temperature on Receipt °C: 19.3  
Containers Intact  
COC/Labels Agree  
Received On Ice

### Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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19249 S Fruit Avenue  
Riverdale, CA 93656

Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40  
Reported: 12/18/2023 12:15

## Sample Results

**Sample: D1 & D2**  
**23L0602-01 (Water)**

Sampled: 12/11/2023 14:20  
Sampled By: Christina

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.38</b>	mmhos/cm	0.01	1		12/12/23 16:40	SM 2510 B		BEL0389
<b>Electrical Conductivity umhos</b>	<b>380</b>	umhos/cm	10.0	1		12/12/23 16:40	SM 2510 B		BEL0389
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/13/23 03:28	EPA 300.0		BEL0350

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Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40  
Reported: 12/18/2023 12:15

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0350</b>									
<b>Blank (BEL0350-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/12/2023				
<b>Blank (BEL0350-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/12/2023				
<b>Blank (BEL0350-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/12/2023 Analyzed: 12/13/2023				
<b>Blank (BEL0350-BLK4)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/12/2023 Analyzed: 12/13/2023				
<b>Blank (BEL0350-BLK5)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/12/2023 Analyzed: 12/13/2023				
<b>LCS (BEL0350-BS1)</b>									
Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000		92.8	90-110		
<b>LCS (BEL0350-BS2)</b>									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000		107	90-110		
<b>LCS (BEL0350-BS3)</b>									
Nitrate Nitrogen as NO3N	4.7	0.1	mg/L	5.000		94.3	90-110		
<b>LCS (BEL0350-BS4)</b>									
Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000		92.7	90-110		
<b>Duplicate (BEL0350-DUP1)</b>									
Nitrate Nitrogen as NO3N	0.08	0.1	mg/L		Prepared: 12/12/2023 Analyzed: 12/13/2023	0.08		0.00	10
<b>Duplicate (BEL0350-DUP2)</b>									
Nitrate Nitrogen as NO3N	0.09	0.1	mg/L		Prepared: 12/12/2023 Analyzed: 12/13/2023	0.09		5.65	10
<b>Duplicate (BEL0350-DUP3)</b>									
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L		Prepared: 12/12/2023 Analyzed: 12/13/2023	0.6		1.23	10
<b>Duplicate (BEL0350-DUP4)</b>									
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		Prepared: 12/12/2023 Analyzed: 12/13/2023	0.2		0.466	10
<b>Matrix Spike (BEL0350-MS1)</b>									
Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000	Prepared & Analyzed: 12/12/2023	0.08	90.7	90-110	
<b>Matrix Spike (BEL0350-MS2)</b>									
Nitrate Nitrogen as NO3N	4.7	0.1	mg/L	5.000	Prepared: 12/12/2023 Analyzed: 12/13/2023	0.09	91.7	90-110	

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Received: 12/12/2023 7:40  
Reported: 12/18/2023 12:15

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0350 (Continued)</b>									
<b>Matrix Spike (BEL0350-MS4)</b>		<b>Source: 23L0731-01</b>			Prepared: 12/12/2023 Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	0.2	93.7	90-110		
<b>Reference (BEL0350-SRM1)</b>					Prepared & Analyzed: 12/12/2023				
Nitrate Nitrogen as NO3N	9.2		mg/L	10.00		92.0	90-110		
<b>Reference (BEL0350-SRM2)</b>					Prepared: 12/12/2023 Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.3		mg/L	10.00		92.6	90-110		
<b>Reference (BEL0350-SRM3)</b>					Prepared: 12/12/2023 Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.3		mg/L	10.00		92.7	90-110		
<b>Reference (BEL0350-SRM4)</b>					Prepared: 12/12/2023 Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.4		mg/L	10.00		93.6	90-110		
<b>Reference (BEL0350-SRM5)</b>					Prepared: 12/12/2023 Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.2		mg/L	10.00		92.2	90-110		

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Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40  
Reported: 12/18/2023 12:15

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0389</b>									
<b>Blank (BEL0389-BLK1)</b>									
Electrical Conductivity									
ND 0.01 mmhos/cm									
Electrical Conductivity umhos									
ND 10.0 umhos/cm									
<b>Blank (BEL0389-BLK2)</b>									
Electrical Conductivity									
ND 0.01 mmhos/cm									
Electrical Conductivity umhos									
ND 10.0 umhos/cm									
<b>Blank (BEL0389-BLK3)</b>									
Electrical Conductivity									
ND 0.01 mmhos/cm									
Electrical Conductivity umhos									
ND 10.0 umhos/cm									
<b>Duplicate (BEL0389-DUP1)</b>									
Source: 23L0597-03									
Prepared & Analyzed: 12/12/2023									
Electrical Conductivity									
6.61 0.01 mmhos/cm									
Electrical Conductivity umhos									
6610 10.0 umhos/cm									
6.45									
2.40									
10									
<b>Duplicate (BEL0389-DUP2)</b>									
Source: 23L0607-03									
Prepared & Analyzed: 12/12/2023									
Electrical Conductivity									
5.81 0.01 mmhos/cm									
Electrical Conductivity umhos									
5810 10.0 umhos/cm									
5.88									
1.25									
10									
<b>Reference (BEL0389-SRM1)</b>									
Prepared & Analyzed: 12/12/2023									
Electrical Conductivity									
445 umhos/cm									
426.0									
104									
90-110									
<b>Reference (BEL0389-SRM3)</b>									
Prepared & Analyzed: 12/12/2023									
Electrical Conductivity									
1070 umhos/cm									
1070 umhos/cm									
1000									
107									
90-110									
<b>Reference (BEL0389-SRM4)</b>									
Prepared & Analyzed: 12/12/2023									
Electrical Conductivity									
1050 umhos/cm									
1050 umhos/cm									
1000									
105									
90-110									
<b>Reference (BEL0389-SRM5)</b>									
Prepared & Analyzed: 12/12/2023									
Electrical Conductivity									
1060 umhos/cm									
1060 umhos/cm									
1000									
106									
90-110									

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12/12/23 07:40

23L0602

Bj

**WATER WORK REQUEST**

Bill To:  Acct No.  Cons.

Purchase Order No. \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client **ATO Dairy**  
 Address 19249 S. Fruit Ave  
 City, State, Zip Riverdale Ca 93656  
 Email: atodairy@yahoo.com

Copy to: Requested by/Cell: Facility: Date sampled Sampled by 

QA/QC Document     Copy of Chain     RWQCB

**DESCRIPTION OF SAMPLES**1. Sampled From: 2. Temperature Upon Receipt  
Hanford (°C): 3. Laboratory (°C): 4. Sampled From: 5. Sampled From: 6. Sampled From: 7. Sampled From: 8. Sampled From: 

IR Thermometer SN: 221511276

Correction Factor: 0°C

Calibration Due: 03/06/2024

Location: Hanford

IR Thermometer SN: 192603727

Correction Factor: 0°C

Calibration Due: 03/06/2024

Location: Laboratory

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		<input type="text" value="DLI"/>	<input type="text" value="12/11/23 3:30pm"/>	<input type="text" value="12/11/23 3:30pm"/>
Second		<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Third		<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Fourth		<input type="text" value="ACT"/>	<input type="text" value="12/12 073400"/>	<input type="text" value=""/>

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable to the company and, if there should be action against me for this breach, reasonable attorney's fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or \$5.00 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the product or services of DellaValle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorney's fees of DellaValle Laboratory.

**Invoicing Information:****Medeiros Pricing 2023**

Shipping			
Sampling Hrs	Miles	Consulting	\$ <input type="text" value=""/> In
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	\$ <input type="text" value=""/> Out
Amt Paid	Rec By	Check No.	Date <input type="text" value=""/>

Signature 

Sample received in cooler with ice?

[ ] Yes [ ] No

ott:update 2020

*[Signature]*

**Shipping Information:** Shipped In  Picked-Up  Walk In  DLI Sampler  Other

Samples refrigerated before pick up  Picked up samples placed in Ice chest

**Container:** Ice Chest  Box  None  **Refrigerant:** Wet Ice  Blue Ice  None

Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:  Received Preserved  Preserved Upon Receipt at Laboratory

Type of Container(s) Received	Sample Number									
	1	2	3	4	5	6	7	8	9	10

### Sample Containers for Internal (DLI) Use

(Containers that go into the Lab)

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic	1								
	1 L unpreserved (BOD) (Purple) Plastic									
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									

### Sample Containers for Subcontracted ("Send Out") Analyses

(Containers that go in the Subcontract ("Send Out") Refrigerator)

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									

VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									

Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									

Special	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	1 L AG HCl (Blue)									
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
	Other:									
	Other:									



ATO Dairy  
19241 Fruit Avenue  
Riverdale, CA 93656

Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:33  
Reported: 08/23/2023 15:31

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1597-01	Canal	Ag Water			08/16/2023 15:30

Default Cooler      Temperature on Receipt °C: 0.4  
Containers Intact  
COC/Labels Agree  
Received On Ice

### Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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ATO Dairy  
19241 Fruit Avenue  
Riverdale, CA 93656

Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:33  
Reported: 08/23/2023 15:31

## Sample Results

**Sample: Canal**  
**23H1597-01 (Water)**

Sampled: 8/16/2023 15:30

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:32	SM 2510 B		BEH0918
Nitrate Nitrogen as NO <sub>3</sub> N	ND	mg/L	0.1	1	10	08/18/23 03:12	EPA 300.0		BEH0886

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Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:33  
Reported: 08/23/2023 15:31

## Quality Control

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

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



ATO Dairy  
19241 Fruit Avenue  
Riverdale, CA 93656

Account# 00-0016668  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:33  
Reported: 08/23/2023 15:31

**Quality Control**  
**(Continued)**

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

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08/17/23 08:33

23H1597

EP

**WATER WORK REQUEST**

Acct No.

16668

Cons.

8

Purchase Order No.

Results Needed By

Client **ATO Dairy**  
 Address **19249 S. Fruit Ave**  
 City, State, Zip **Riverdale Ca 93656**  
 Email: **atodairy@yahoo.com**

Copy to: **mel\_tinamedeiros@yahoo.com**Requested by/Cell: **Christina Medeiros/ 559-903-2490**

Facility:

Date sampled

Sampled by

 QA/QC Document     Copy of Chain     RWQCB
**DESCRIPTION OF SAMPLES**

1. **Canal** Sampled From: [Yellow Box]
2. Sampled From: [Yellow Box]
3. Sampled From: [Yellow Box]
4. Sampled From: [Yellow Box]
5. Sampled From: [Yellow Box]
6. Sampled From: [Yellow Box]
7. Sampled From: [Yellow Box]
8. Sampled From: [Yellow Box]
9. Sampled From: [Yellow Box]
10. Sampled From: [Yellow Box]

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[Signature]	Medeiros		8/16/23 4:35
Second	[Signature]	DLI	8/16/23 4:35pm	8/16/23
Third	[Signature]	DLI	8/17/23 8:33	
Fourth				

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

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

**Invoicing Information:**  
**Medeiros Pricing 2023**

Sampling Hrs	Miles	Consulting	\$	In
				Out

Amt Paid    Rec By    Check No.    Date

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes    [ ] No

ctt:update 2020

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

**Shipping Information:** Shipped In  Picked-Up  Walk In  DLI Sample  Other  \_\_\_\_\_

Samples refrigerated before pick up  Picked up samples placed in Ice chest

**Container:** Ice Chest  Box  None  **Refrigerant:** Wet Ice  Blue Ice  None

Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:  Received Preserved  Preserved Upon Receipt at Laboratory

**Type of Container(s) Received**

Sample Number  
1 2 3 4 5 6 7 8 9 10

**Sample Containers for Internal (DLI) Use**

(Containers that go into the Lab)

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	* pH Value										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
Other:											

**Sample Containers for Subcontracted ("Send Out") Analyses**

(Containers that go in the Subcontract ("Send Out") Refrigerator)

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	500 mL HNO <sub>3</sub> (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO <sub>3</sub> (Red)										
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
Special	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	1 L AG HCl (Blue)										
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
HAA5 - 250mL AG Ammonium Chlorite											
DO KIT											
Other:											



08/17/23 08:33

23H1597

EP

**WATER WORK REQUEST**

Acct No.

16668

Cons.

8

Purchase Order No.

Results Needed By

Client **ATO Dairy**  
 Address **19249 S. Fruit Ave**  
 City, State, Zip **Riverdale Ca 93656**  
 Email: **atodairy@yahoo.com**

Copy to: **mel\_tinamedeiros@yahoo.com**Requested by/Cell: **Christina Medeiros/ 559-903-2490**

Facility:

Date sampled

Sampled by

 QA/QC Document Copy of Chain RWQCB**DESCRIPTION OF SAMPLES**

1. Canal Sampled From: [Yellow Box]  
 2. \_\_\_\_\_ Sampled From:  
 3. \_\_\_\_\_ Sampled From:  
 4. \_\_\_\_\_ Sampled From:  
 5. \_\_\_\_\_ Sampled From:  
 6. \_\_\_\_\_ Sampled From:  
 7. \_\_\_\_\_ Sampled From:  
 8. \_\_\_\_\_ Sampled From:  
 9. \_\_\_\_\_ Sampled From:  
 10. \_\_\_\_\_ Sampled From:

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Christina Medeiros</u>	ATO Dairy		8/16/23 4:35
Second	<u>John M. Johnson</u>	DLI	8/16/23 4:35pm	8/16/23
Third	<u>M.M.</u>	DLI	8/17/23 8:33	
Fourth				

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**Invoicing Information:**  
**Medeiros Pricing 2023**

Sampling Hrs	Miles	Consulting	\$	In
				Out

Amt Paid      Rec By      Check No.      Date

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes      [ ] No

ctt:update 2020

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

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	* pH Value										
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	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
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	500mL unpreserved (White) Glass										
	PO4-P Kit										
Other:											

**Sample Containers for Subcontracted ("Send Out") Analyses**

(Containers that go in the Subcontract ("Send Out") Refrigerator)

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	500 mL HNO <sub>3</sub> (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO <sub>3</sub> (Red)										
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
Special	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	1 L AG HCl (Blue)										
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										
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HAA5 - 250mL AG Ammonium Chlorite											
DO KIT											
Other:											