

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:

Newhouse Dairy

Physical address of dairy:

16130 Bear Mountain Blvd

Number and Street

Bakersfield

City

Kern

County

93311

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 01-01-2000

Regional Water Quality Control Board Basin Plan designation:

Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0100-0040-0000 0184-0100-0050-0000 0184-0110-0071-0000

B. OPERATORS

Eduardo Echeverria

Operator Name: Eduardo Echeverria

Telephone no.: 661-599-3578

Landline

Cellular

16130 Bear Mountain Blvd.

Mailing Address Number and Street

Bakersfield

City

Kern

93311

County

Zip Code

C. OWNERS

Eduardo Echeverria

Owner Name: Eduardo Echeverria

Telephone no.: 661599-3578

Landline

Cellular

16130 Bear Mountain Blvd

Mailing Address Number and Street

Bakersfield

City

Kern

93311

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo.to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	641	926	1,193	356	0
Number under roof	2,967	0	0	0	0	0
Maximum number	2,972	653	950	1,208	369	0
Average number	2,967	641	926	1,193	356	0
Average live weight (lbs)	1400	1450	1000	300		

Predominant milk cow breed: Holsteins
 Average Milk Production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd:	<u>106,115.57 tons per reporting period</u>		
Total nitrogen from manure:	<u>1,331,339.96 lbs per reporting period</u>	After ammonia losses (30% loss applied):	<u>931,937.97 lbs per reporting period</u>
Total phosphorus from manure:	<u>219,219.07 lbs per reporting period</u>		
Total potassium from manure:	<u>568,207.88 lbs per reporting period</u>		
Total salt from manure:	<u>1,544,409.90 lbs per reporting period</u>		

C. PROCESS WASTEWATER GENERATED

Process wastewater generated:	<u>90,005,630.22 gallons</u>
Total nitrogen generated:	<u>287,318.95 lbs</u>
Total phosphorus generated:	<u>620,041,584.06 lbs</u>
Total potassium generated:	<u>405,237.47 lbs</u>
Total salt generated:	<u>3,003,844.67 lbs</u>

$$\begin{aligned}
 & 90,005,630.22 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 90,005,630.22 \text{ gallons generated}
 \end{aligned}$$

D. FRESH WATER SOURCES

Source Description	Type
4-3	Ground Water
4-4	Ground Water
5	Ground Water
Canal - Kern Delta	Surface Water
D1	Ground Water
Lakeview Well	Ground Water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No fresh water sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	TFS (%)
05/01/2023	Separator solids	9,284 tons	as-is	67.6	13,150.00	3,920.00	9,390.00	55.00
06/04/2023	Separator solids	8,432 tons	as-is	63.8	13,150.00	3,920.00	9,390.00	55.00
06/26/2023	Separator solids	10,064 tons	as-is	68.2	23,560.00	6,010.00	9,200.00	33.00
07/20/2023	Separator solids	6,941 tons	as-is	69.4	23,560.00	6,010.00	9,200.00	33.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	1,267,206.40	343,293.54	645,598.48	30,710,900.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	1,267,206.40	343,293.54	645,598.48	30,710,900.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
NH-1	104.84	105.00	2	BOTH	0184-0110-0071-0000
NH-2	105.38	120.00	1	BOTH	0184-0110-0071-0000
NH-3	107.16	120.00	2	BOTH	0184-0110-0071-0000
NH4-1	15.85	20.00	2	BOTH	0184-0110-0071-0000
NH4-2	44.58	45.50	2	BOTH	0184-0110-0071-0000
NH4-3	44.92	44.20	2	BOTH	0184-0110-0071-0000
NH4-4	35.31	34.62	2	BOTH	0184-0110-0071-0000
NH-6	155.38	160.00	2	BOTH	0184-0100-0050-0000
NH-7	3.21	8.00	1	BOTH	0184-0110-0071-0000
Totals for areas that were used for application	616.63	657.32	16.00		
Totals for areas that were not used for application	0.00	0.00			
Land application area totals	616.63	616.63	16.00		

B. CROPS AND HARVESTS

NH-1

Field Name: NH-1

10/03/2022: Triticale

Crop: Triticale Acres planted: 105 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	2,490.60 ton	As-is		0.00	6,145.20	1,616.40	10,263.60	72.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	23.72	291.53	76.68	486.91	0.00

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 105 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	1,874.25 ton	As-is		0.00	8,116.80	1,371.80	10,750.20	117.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	17.85	289.77	48.97	383.78	0.00

NH-2

Field Name: NH-2

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 120 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/01/2023	2,182.80 ton	As-is		0.00	5,278.20	1,064.00	9,948.40	60.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	18.19	192.02	38.71	361.92	0.00

NH-3

Field Name: NH-3

10/03/2022: Triticale

Crop: Triticale Acres planted: 120 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	3,000.00 ton	As-is		0.00	5,914.80	1,666.80	10,504.80	68.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	25.00	295.74	83.34	525.24	0.00

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 120 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/02/2023	2,424.00 ton	As-is		0.00	7,003.40	1,037.40	9,572.20	64.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	20.20	282.94	41.91	386.72	0.00

NH4-1

Field Name: NH4-1

10/03/2022: Triticale

Crop: Triticale Acres planted: 20 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	500.00 ton	As-is		0.00	5,724.00	1,674.00	10,746.00	72.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	25.00	286.20	83.70	537.30	0.00

NH4-2

Field Name: NH4-2

10/03/2022: Triticale

Crop: Triticale Acres planted: 45.5 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/07/2023	827.19 ton	As-is		0.00	8,172.00	1,764.00	20,880.00	0.03	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.18	297.13	64.14	759.20	0.00

NH4-3

Field Name: NH4-3

10/03/2022: Triticale

Crop: Triticale Acres planted: 44.2 Plant date: 10/03/2022

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	803.56 ton	As-is		0.00	7,020.00	1,440.00	17,640.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.18	255.25	52.36	641.39	0.00

NH4-4

Field Name: NH4-4

10/03/2022: Triticale

Crop: Triticale Acres planted: 34.62 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	814.61 ton	As-is		0.00	8,208.00	1,872.00	16,920.00	0.01	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	23.53	386.27	88.10	796.26	0.00

NH4-1

Field Name: NH4-1

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 20 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	375.00 ton	As-is		0.00	6,296.60	1,360.40	12,095.40	76.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	18.75	236.12	51.02	453.58	0.00

NH4-2

Field Name: NH4-2

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage

Acres planted: 45.5

Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	826.28 ton	As-is		0.00	6,437.20	1,151.40	9,845.80	60.80	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	18.16	233.80	41.82	357.60	0.00

NH4-3

Field Name: NH4-3

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 44.2 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	1,131.96 ton	As-is		0.00	5,627.80	1,151.40	9,617.80	64.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	25.61	288.26	58.97	492.62	0.00

NH4-4

Field Name: NH4-4

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 34.62 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	836.42 ton	As-is		0.00	7,049.00	1,254.00	10,484.20	64.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	24.16	340.61	60.59	506.60	0.00

NH-6

Field Name: NH-6

10/03/2022: Triticale

Crop: Triticale Acres planted: 160 Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	3,875.20 ton	As-is		0.00	6,472.80	1,695.60	13,068.00	79.20	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	24.22	313.54	82.13	633.01	0.00

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 160 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/08/2023	3,628.80 ton	As-is		0.00	6,190.20	1,242.60	10,575.40	68.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	22.68	280.79	56.36	479.70	0.00

NH-7

Field Name: NH-7

05/10/2023: Corn, Late Silage

Crop: Corn, Late Silage Acres planted: 8 Plant date: 05/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/04/2023	144.80 ton	As-is		0.00	6,460.00	1,238.80	10,985.80	64.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.00	736.00	174.80	920.00	460.00
Total actual harvest content	18.10	233.85	44.84	397.69	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

NH-1

Field name: NH-1

Crop: Corn, Late Silage

Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,470.00 Lbs
Corral Solids	Corral Solids	177.93	45.39	69.48	2,492.16	420.00 ton
Application event totals		191.93	45.39	69.48	2,492.16	

05/07/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	14,113,439.40 gal
Application event totals		0.04	1,121.68	28,827.24	89.73	

05/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
REACTION 2-6-6	Commercial fertilizer / Other: Liquid commercial fertilizer	0.96	2.88	2.88	0.00	525.00 Gal.
CARBOXY PLUS	Commercial fertilizer / Other: Liquid commercial fertilizer	0.00	0.00	0.00	0.00	1,050.00 Fl. oz.
Application event totals		0.96	2.88	2.88	0.00	

05/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,121.68	28,827.24	89.73	14,113,439.40 gal
Application event totals		0.04	1,121.68	28,827.24	89.73	

06/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent		Process wastewater	34.49	89,589.57	43.94	284.25	1,596,672.00 gal
Canal Water		Ground water	0.04	1,167.23	29,997.80	93.38	14,686,531.20 gal
Application event totals			34.53	90,756.80	30,041.74	377.63	
06/14/2023		Surface (Irrigation)		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water		Ground water	0.01	1,447.08	0.63	179.08	18,207,762.21 gal
Lagoon Water Effluent		Process wastewater	42.06	109,267.29	53.59	346.68	1,947,369.67 gal
Application event totals			42.07	110,714.37	54.22	525.76	
06/28/2023		Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water		0.01	1,386.81	0.60	171.62	17,449,343.60 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		53.09	0.00	0.00	0.00	1,575.00 Gal.
Application event totals			53.10	1,386.81	0.60	171.62	
07/14/2023		Surface (Irrigation)		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent		Process wastewater	54.75	142,223.45	69.75	451.25	2,534,716.79 gal
Well Water		Ground water	0.01	1,441.19	0.63	178.35	18,133,632.30 gal
Application event totals			54.76	143,664.64	70.38	629.60	
07/29/2023		Surface (Irrigation)		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water		Ground water	0.01	1,189.66	0.52	147.22	14,968,799.94 gal
Application event totals			0.01	1,189.66	0.52	147.22	

10/03/2022: Tricale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/03/2022	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
Canal Water	Ground water	0.00	1,373.21	36,060.53	130.46	17,278,271.76 gal
Application event totals		0.00	1,373.21	36,060.53	130.46	

10/28/2022	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
Canal Water	Ground water	0.00	1,099.02	28,860.32	104.41	13,828,319.67 gal
Lagoon Water Effluent	Process wastewater	24.71	43,881.12	38.01	314.26	518,918.39 gal
Application event totals		24.71	44,980.14	28,898.33	418.67	
11/22/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	88.66	157,441.62	136.37	1,127.54	1,861,833.58 gal
Canal Water	Ground water	0.00	985.72	25,885.03	93.64	12,402,719.68 gal
Application event totals		88.66	158,427.34	26,021.40	1,221.18	
12/20/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	99.93	177,453.34	153.71	1,270.86	2,098,483.20 gal
Well Water	Ground water	0.08	1,142.08	0.86	215.85	14,370,047.83 gal
Application event totals		100.01	178,595.42	154.57	1,486.71	
01/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,310.90	0.57	162.22	16,494,191.50 gal
Lagoon Water Effluent	Process wastewater	63.68	113,078.29	97.95	809.83	1,337,212.83 gal
Application event totals		63.69	114,389.19	98.52	972.05	
02/06/2023	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
Well Water	Ground water	0.01	1,114.88	0.49	137.97	14,027,904.16 gal
Lagoon Water Effluent	Process wastewater	38.62	70,081.36	54.83	332.41	963,705.59 gal
Application event totals		38.63	71,196.24	55.32	470.38	
02/20/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,291.63	0.56	159.84	16,251,839.39 gal
Application event totals		0.01	1,291.63	0.56	159.84	

NH-2

Field name: NH-2 Crop: Corn, Late Silage Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/14/2023		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	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	1,680.00 <i>Lbs</i>	
Corral Solids		Corral Solids	102.68	30.61	73.32	4,294.40	960.00 <i>ton</i>	
Application event totals			116.68	30.61	73.32	4,294.40		
04/17/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal Water		Ground water	0.05	1,305.23	33,544.43	104.42	18,769,042.95 <i>gal</i>	
Application event totals			0.05	1,305.23	33,544.43	104.42		
05/01/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	0.96	2.88	2.88	0.00	600.00 <i>Gal.</i>	
CARBOXY PLUS		Commercial fertilizer / Other: Liquid commercial fertilizer	0.00	0.00	0.00	0.00	1,200.00 <i>Fl. oz.</i>	
Application event totals			0.96	2.88	2.88	0.00		
05/12/2023		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	
Lagoon Water Effluent		Process wastewater	69.59	180,778.96	88.66	573.58	3,682,121.11 <i>gal</i>	
Canal Water		Ground water	0.05	1,386.81	35,640.95	110.94	19,942,106.97 <i>gal</i>	
Application event totals			69.64	182,165.77	35,729.61	684.52		
05/26/2023		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 Water		Ground water	0.04	1,178.33	30,283.16	94.27	16,944,273.59 <i>gal</i>	
Application event totals			0.04	1,178.33	30,283.16	94.27		
06/07/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,359.62	0.59	168.25	19,551,085.63 gal
Lagoon Water Effluent	Process wastewater	44.34	115,186.60	56.49	365.46	2,346,130.37 gal
Application event totals		44.35	116,546.22	57.08	533.71	
06/21/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,400.40	0.61	173.30	20,137,617.64 gal
Application event totals		0.01	1,400.40	0.61	173.30	
07/03/2023	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
Well Water	Ground water	0.01	1,414.00	0.62	174.98	20,333,128.31 gal
Lagoon Water Effluent	Process wastewater	33.62	87,349.83	42.84	277.14	1,779,148.80 gal
Application event totals		33.63	88,763.83	43.46	452.12	
07/18/2023	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
Well Water	Ground water	0.01	1,167.00	0.51	144.42	16,781,348.81 gal
Application event totals		0.01	1,167.00	0.51	144.42	

NH-3

Field name: NH-3

Crop: Corn, Late Silage

Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,680.00 <i>Lbs</i>
Corral Solids	Corral Solids	80.34	16.52	17.64	680.40	1,200.00 <i>ton</i>
Application event totals		94.34	16.52	17.64	680.40	
05/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,133.01	0.49	140.21	16,292,571.36 <i>gal</i>
Application event totals		0.01	1,133.01	0.49	140.21	
05/26/2023	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
Well Water	Ground water	0.01	1,121.68	0.49	138.81	16,129,645.02 <i>gal</i>
Application event totals		0.01	1,121.68	0.49	138.81	
06/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	58.87	152,942.19	75.01	485.26	3,115,139.55 <i>gal</i>
Canal Water	Ground water	0.04	1,178.33	30,283.16	94.27	16,944,273.59 <i>gal</i>
Application event totals		58.91	154,120.52	30,358.17	579.53	
06/19/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,346.02	34,592.69	107.68	19,355,574.96 <i>gal</i>
Lagoon Water Effluent	Process wastewater	77.59	201,576.54	98.86	639.56	4,105,727.95 <i>gal</i>
Application event totals		77.64	202,922.56	34,691.55	747.24	
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 Water	Ground water	0.05	1,414.00	36,339.79	113.12	20,333,128.31 <i>gal</i>
Lagoon Water Effluent	Process wastewater	75.13	195,177.29	95.73	619.26	3,975,387.51 <i>gal</i>

Application event totals		75.18	196,591.29	36,435.52	732.38	
07/19/2023	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
Well Water	Ground water	0.01	1,441.19	0.63	178.35	20,724,151.20 gal
Lagoon Water Effluent	Process wastewater	83.75	217,574.68	106.71	690.32	4,431,579.46 gal
Application event totals		83.76	219,015.87	107.34	868.67	
08/03/2023	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
Well Water	Ground water	0.01	1,189.66	0.52	147.22	17,107,199.93 gal
Application event totals		0.01	1,189.66	0.52	147.22	

10/03/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/03/2022	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
Canal Water	Ground water	0.00	1,318.83	34,632.39	125.29	18,964,553.62 gal
Application event totals		0.00	1,318.83	34,632.39	125.29	
10/28/2022	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	28.65	50,873.17	44.07	364.34	687,546.50 gal
Canal Water	Ground water	0.00	1,087.69	28,562.80	103.33	15,640,869.13 gal
Application event totals		28.65	51,960.86	28,606.87	467.67	
11/22/2022	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
Well Water	Ground water	0.06	906.41	0.69	171.31	13,034,057.09 gal
Lagoon Water Effluent	Process wastewater	86.36	153,342.83	132.82	1,098.19	2,072,415.00 gal
Application event totals		86.42	154,249.24	133.51	1,269.50	
12/20/2022	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
Well Water	Ground water	0.09	1,210.06	0.92	228.70	17,400,466.71 gal
Lagoon Water Effluent	Process wastewater	79.97	142,010.89	123.01	1,017.03	1,919,264.86 gal
Application event totals		80.06	143,220.95	123.93	1,245.73	
01/17/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	65.45	116,212.65	100.66	832.27	1,570,603.86 gal
Well Water	Ground water	0.01	1,237.25	0.54	153.11	17,791,488.05 gal
Application event totals		65.46	117,449.90	101.20	985.38	
02/06/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	35.19	63,861.12	49.96	302.90	1,003,622.39 gal
Well Water	Ground water	0.01	1,250.85	0.54	154.79	17,986,998.72 gal
Application event totals		35.20	65,111.97	50.50	457.69	
02/20/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,291.63	33,195.00	103.33	18,573,530.73 gal
Application event totals		0.05	1,291.63	33,195.00	103.33	

NH-6

Field name: NH-6

Crop: Corn, Late Silage

Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/15/2023		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	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	2,240.00 <i>Lbs</i>	
Corral Solids		Corral Solids	128.34	38.26	91.65	5,368.00	1,600.00 <i>ton</i>	
Application event totals			142.34	38.26	91.65	5,368.00		
04/18/2023		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	
Well Water		Ground water	0.01	1,318.83	0.57	163.20	25,286,071.50 <i>gal</i>	
Application event totals			0.01	1,318.83	0.57	163.20		
05/10/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	0.96	2.88	2.88	0.00	800.00 <i>Gal.</i>	
CARBOXY PLUS		Commercial fertilizer / Other: Liquid commercial fertilizer	0.00	0.00	0.00	0.00	1,600.00 <i>Fl. oz.</i>	
Application event totals			0.96	2.88	2.88	0.00		
05/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well Water		Ground water	0.01	1,386.81	0.60	171.62	26,589,475.96 <i>gal</i>	
Lagoon Water Effluent		Process wastewater	73.90	191,977.66	94.16	609.11	5,213,623.04 <i>gal</i>	
Application event totals			73.91	193,364.47	94.76	780.73		
06/04/2023		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	
Well Water		Ground water	0.01	1,144.34	0.50	141.61	21,940,663.59 <i>gal</i>	
Application event totals			0.01	1,144.34	0.50	141.61		
06/16/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,400.40	35,990.37	112.03	26,850,156.86 gal
Lagoon Water Effluent	Process wastewater	78.21	203,176.35	99.65	644.64	5,517,750.75 gal
Application event totals		78.26	204,576.75	36,090.02	756.67	
06/30/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,373.21	35,291.53	109.86	26,328,795.07 gal
Application event totals		0.05	1,373.21	35,291.53	109.86	
07/14/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,427.60	36,689.22	114.21	27,371,520.71 gal
Lagoon Water Effluent	Process wastewater	43.17	112,146.94	55.00	355.82	3,045,624.57 gal
Application event totals		43.22	113,574.54	36,744.22	470.03	
07/29/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,200.99	0.52	148.62	23,026,835.02 gal
Lagoon Water Effluent	Process wastewater	21.55	55,993.48	27.46	177.66	1,520,639.97 gal
Application event totals		21.56	57,194.47	27.98	326.28	

10/03/2022: Tricale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/01/2022	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
Corral Solids	Corral Solids	140.67	36.33	69.82	4,919.10	800.00 ton
Application event totals		140.67	36.33	69.82	4,919.10	
10/23/2022	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,318.83	34,632.39	125.29	25,286,071.50 gal
Application event totals		0.00	1,318.83	34,632.39	125.29	
11/17/2022	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Canal Water	Ground water	0.00	1,121.68	29,455.38	106.56	21,506,193.37 gal
Lagoon Water Effluent	Process wastewater	28.65	50,873.17	44.07	364.34	916,728.66 gal
Application event totals		28.65	51,994.85	29,499.45	470.90	

12/12/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	86.36	153,342.83	132.82	1,098.19	2,763,220.01 gal
Well Water	Ground water	0.07	917.74	0.69	173.45	17,595,977.90 gal
Application event totals		86.43	154,260.57	133.51	1,271.64	

01/09/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	102.51	182,034.34	157.68	1,303.67	3,280,237.68 gal
Well Water	Ground water	0.01	1,210.06	0.53	149.74	23,200,622.28 gal
Application event totals		102.52	183,244.40	158.21	1,453.41	

02/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,193.06	0.52	147.64	22,874,769.61 gal
Lagoon Water Effluent	Process wastewater	72.64	128,991.23	111.73	923.79	2,324,406.96 gal
Application event totals		72.65	130,184.29	112.25	1,071.43	

02/26/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,237.25	0.54	153.11	23,721,984.07 gal
Application event totals		0.01	1,237.25	0.54	153.11	

03/12/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.04	1,114.88	28,652.53	89.19	21,375,853.96 gal
Application event totals		0.04	1,114.88	28,652.53	89.19	

NH-7

Field name: NH-7

Crop: Corn, Late Silage

Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/01/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Corral Solids		Corral Solids	222.41	56.73	86.85	3,115.20	40.00 ton	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	112.00 Lbs	
Application event totals			236.41	56.73	86.85	3,115.20		
05/04/2023		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	
Well Water		Ground water	0.01	1,346.02	0.59	166.57	1,290,371.66 gal	
Application event totals			0.01	1,346.02	0.59	166.57		
05/10/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
CARBOXY PLUS		Commercial fertilizer / Other: Liquid commercial fertilizer	0.00	0.00	0.00	0.00	80.00 Fl. oz.	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	0.96	2.88	2.88	0.00	40.00 Gal.	
Application event totals			0.96	2.88	2.88	0.00		
05/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lagoon Water Effluent		Process wastewater	17.24	44,794.79	21.97	142.13	60,825.60 gal	
Well Water		Ground water	0.01	1,373.21	0.60	169.93	1,316,439.75 gal	
Application event totals			17.25	46,168.00	22.57	312.06		
06/04/2023		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	
Well Water		Ground water	0.01	1,121.68	0.49	138.81	1,075,309.67 gal	
Application event totals			0.01	1,121.68	0.49	138.81		
06/16/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	25.93	67,352.16	33.03	213.70	91,455.63 gal
Well Water	Ground water	0.01	1,400.40	0.61	173.30	1,342,507.84 gal
Application event totals		25.94	68,752.56	33.64	387.00	
06/30/2023	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 Water	Ground water	0.05	1,400.40	35,990.37	112.03	1,342,507.84 gal
Application event totals		0.05	1,400.40	35,990.37	112.03	
07/14/2023	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
Lagoon Water Effluent	Process wastewater	43.17	112,146.94	55.00	355.82	152,281.23 gal
Canal Water	Ground water	0.05	1,414.00	36,339.79	113.12	1,355,541.89 gal
Application event totals		43.22	113,560.94	36,394.79	468.94	
07/29/2023	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 Water	Ground water	0.04	1,178.33	30,283.16	94.27	1,129,618.24 gal
Application event totals		0.04	1,178.33	30,283.16	94.27	

NH4-1

Field name: NH4-1

Crop: Corn, Late Silage

Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/16/2023		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	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	280.00 <i>Lbs</i>	
Corral Solids		Corral Solids	128.34	38.26	91.65	5,368.00	200.00 <i>ton</i>	
Application event totals			142.34	38.26	91.65	5,368.00		
04/22/2023		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 Water		Ground water	0.04	1,144.34	29,409.61	91.55	2,742,582.95 <i>gal</i>	
Application event totals			0.04	1,144.34	29,409.61	91.55		
05/10/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	0.96	2.88	2.88	0.00	100.00 <i>Gal.</i>	
CARBOXY PLUS		Commercial fertilizer / Other: Liquid commercial fertilizer	0.00	0.00	0.00	0.00	200.00 <i>Fl. oz.</i>	
Application event totals			0.96	2.88	2.88	0.00		
05/23/2023		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	
Well Water		Ground water	0.01	1,121.68	0.49	138.81	2,688,274.17 <i>gal</i>	
Application event totals			0.01	1,121.68	0.49	138.81		
06/06/2023		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	
Well Water		Ground water	0.01	1,178.79	0.51	145.87	2,825,131.69 <i>gal</i>	
Lagoon Water Effluent		Process wastewater	17.24	44,794.79	21.97	142.13	152,064.00 <i>gal</i>	
Application event totals			17.25	45,973.58	22.48	288.00		
06/14/2023		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
Well Water	Ground water	0.01	1,433.03	0.62	177.34	3,434,473.98 gal	
Lagoon Water Effluent	Process wastewater	67.74	175,979.52	86.31	558.35	597,394.30 gal	
Application event totals		67.75	177,412.55	86.93	735.69		
06/28/2023		Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer		17.70	0.00	0.00	0.00	100.00 Gal.
Well Water	Ground water		0.01	1,400.40	0.61	173.30	3,356,269.61 gal
Application event totals			17.71	1,400.40	0.61	173.30	
07/14/2023		Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater		72.05	187,178.21	91.80	593.88	635,410.26 gal
Canal Water	Ground water		0.05	1,427.60	36,689.22	114.21	3,421,440.09 gal
Application event totals			72.10	188,605.81	36,781.02	708.09	
07/29/2023		Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water		0.04	1,200.99	30,865.53	96.08	2,878,354.38 gal
Application event totals			0.04	1,200.99	30,865.53	96.08	

10/03/2022: Triticale

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/03/2022	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
Well Water	Ground water		0.09	1,318.83	1.00	249.26	3,160,758.94 gal
Application event totals			0.09	1,318.83	1.00	249.26	
10/28/2022		Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater		30.28	53,766.43	46.57	385.06	121,108.12 gal
Well Water	Ground water		0.08	1,087.69	0.82	205.57	2,606,811.52 gal
Application event totals			30.36	54,854.12	47.39	590.63	

11/22/2022	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						
Well Water	Ground water	0.07	997.05	0.75	188.44	2,389,577.18 gal
Lagoon Water Effluent	Process wastewater	86.36	153,342.83	132.82	1,098.19	345,402.50 gal
Application event totals		86.43	154,339.88	133.57	1,286.63	
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						
Canal Water	Ground water	0.00	1,087.69	28,562.80	103.33	2,606,811.52 gal
Lagoon Water Effluent	Process wastewater	94.91	168,532.45	145.98	1,206.97	379,616.91 gal
Application event totals		94.91	169,620.14	28,708.78	1,310.30	
01/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description Material type N (lbs/acre) P (lbs/acre) K (lbs/acre) Salt (lbs/acre) Amount						
Lagoon Water Effluent	Process wastewater	69.11	122,722.49	106.30	878.90	276,430.63 gal
Canal Water	Ground water	0.05	1,266.71	32,554.40	101.34	3,035,849.21 gal
Application event totals		69.16	123,989.20	32,660.70	980.24	
02/13/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation		
Source description Material type N (lbs/acre) P (lbs/acre) K (lbs/acre) Salt (lbs/acre) Amount						
Lagoon Water Effluent	Process wastewater	43.19	78,375.01	61.31	371.75	205,286.39 gal
Canal Water	Ground water	0.04	1,142.08	29,351.37	91.37	2,737,151.97 gal
Application event totals		43.23	79,517.09	29,412.68	463.12	

NH4-2

Field name: NH4-2 Crop: Corn, Late Silage Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/17/2023		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	
Corral Solids		Corral Solids	128.34	38.26	91.65	5,368.00	455.00 ton	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	637.00 Lbs	
Application event totals			142.34	38.26	91.65	5,368.00		
04/23/2023		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 Water		Ground water	0.03	944.48	24,273.12	75.56	5,149,647.61 gal	
Application event totals			0.03	944.48	24,273.12	75.56		
05/10/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
CARBOXY PLUS		Commercial fertilizer / Other: Liquid commercial fertilizer	0.00	0.00	0.00	0.00	455.00 Fl. oz.	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	0.96	2.88	2.88	0.00	227.50 Gal.	
Application event totals			0.96	2.88	2.88	0.00		
05/23/2023		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 Water		Ground water	0.03	862.90	22,176.59	69.03	4,704,860.25 gal	
Application event totals			0.03	862.90	22,176.59	69.03		
06/06/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lagoon Water Effluent		Process wastewater	17.24	44,794.79	21.97	142.13	345,945.60 gal	
Canal Water		Ground water	0.04	1,087.69	27,953.69	87.02	5,930,496.21 gal	
Application event totals			17.28	45,882.48	27,975.66	229.15		
06/14/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	67.74	175,979.52	86.31	558.35	1,359,072.02 gal
Well Water	Ground water	0.02	1,729.66	0.75	214.05	9,430,723.99 gal
Application event totals		67.76	177,709.18	87.06	772.40	

06/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,421.02	0.62	175.85	7,747,945.77 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	227.50 Gal.
Application event totals		17.71	1,421.02	0.62	175.85	

07/14/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.02	1,741.44	0.76	215.50	9,494,971.09 gal
Lagoon Water Effluent	Process wastewater	72.05	187,178.21	91.80	593.88	1,445,558.34 gal
Application event totals		72.07	188,919.65	92.56	809.38	

07/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,096.98	0.48	135.75	5,981,152.39 gal
Application event totals		0.01	1,096.98	0.48	135.75	

10/03/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/01/2022	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
Corral Solids	Corral Solids	151.08	63.80	154.37	4,081.20	227.50 ton
Application event totals		151.08	63.80	154.37	4,081.20	

11/03/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,305.23	34,275.35	124.00	7,116,595.45 gal
Application event totals		0.00	1,305.23	34,275.35	124.00	

11/28/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	30.28	53,766.43	46.57	385.06	275,520.96 gal
Canal Water	Ground water	0.00	1,087.69	28,562.80	103.33	5,930,496.21 gal
Application event totals		30.28	54,854.12	28,609.37	488.39	
12/23/2022	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 Water	Ground water	0.00	940.40	24,694.92	89.34	5,127,408.10 gal
Lagoon Water Effluent	Process wastewater	86.36	153,342.83	132.82	1,098.19	785,790.69 gal
Application event totals		86.36	154,283.23	24,827.74	1,187.53	
01/20/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,142.08	0.50	141.33	6,227,020.73 gal
Lagoon Water Effluent	Process wastewater	49.42	87,762.25	76.02	628.52	449,729.27 gal
Application event totals		49.43	88,904.33	76.52	769.85	
02/17/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,310.90	0.57	162.22	7,147,482.98 gal
Lagoon Water Effluent	Process wastewater	51.19	90,896.62	78.73	650.97	465,791.04 gal
Application event totals		51.20	92,207.52	79.30	813.19	
03/16/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	43.19	78,375.01	61.31	371.75	467,026.55 gal
Well Water	Ground water	0.01	1,155.67	0.50	143.01	6,301,151.86 gal
Application event totals		43.20	79,530.68	61.81	514.76	

Field name: NH4-3 Crop: Corn, Late Silage Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date		Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/17/2023		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	
Atmospheric Deposition		Atmospheric deposition	14.00	0.00	0.00	0.00	618.80 <i>Lbs</i>	
Corral Solids		Corral Solids	128.34	38.26	91.65	5,368.00	442.00 <i>ton</i>	
Application event totals			142.34	38.26	91.65	5,368.00		
04/20/2023		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	
Well Water		Ground water	0.01	1,462.27	0.64	180.96	7,745,016.16 <i>gal</i>	
Application event totals			0.01	1,462.27	0.64	180.96		
05/10/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
REACTION 2-6-6		Commercial fertilizer / Other: Liquid commercial fertilizer	0.96	2.88	2.88	0.00	221.00 <i>Gal.</i>	
CARBOXY PLUS		Commercial fertilizer / Other: Liquid commercial fertilizer	0.00	0.00	0.00	0.00	442.00 <i>Fl. oz.</i>	
Application event totals			0.96	2.88	2.88	0.00		
05/21/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Well Water		Ground water	0.01	1,634.26	0.71	202.24	8,655,982.50 <i>gal</i>	
Lagoon Water Effluent		Process wastewater	58.32	151,502.37	74.31	480.69	1,136,607.85 <i>gal</i>	
Application event totals			58.33	153,136.63	75.02	682.93		
06/04/2023		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	
Well Water		Ground water	0.01	1,314.29	0.57	162.64	6,961,273.01 <i>gal</i>	
Application event totals			0.01	1,314.29	0.57	162.64		
06/16/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.06	1,615.22	41,511.22	129.22	8,555,163.94 gal
Lagoon Water Effluent	Process wastewater	81.29	211,175.43	103.57	670.02	1,584,289.73 gal
Application event totals		81.35	212,790.65	41,614.79	799.24	
06/30/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.06	1,648.31	42,361.48	131.86	8,730,396.44 gal
Application event totals		0.06	1,648.31	42,361.48	131.86	
07/14/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.06	1,529.11	39,298.23	122.33	8,099,080.98 gal
Lagoon Water Effluent	Process wastewater	87.45	227,173.55	111.42	720.78	1,704,311.56 gal
Application event totals		87.51	228,702.66	39,409.65	843.11	
07/29/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,239.29	0.54	153.36	6,563,999.98 gal
Lagoon Water Effluent	Process wastewater	21.55	55,993.48	27.46	177.66	420,076.80 gal
Application event totals		21.56	57,232.77	28.00	331.02	

10/03/2022: Tricale						
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/16/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	151.08	63.80	154.37	4,081.20	221.00 ton
Application event totals		151.08	63.80	154.37	4,081.20	
11/05/2022	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.12	1,618.40	1.22	305.88	8,571,967.51 gal
Application event totals		0.12	1,618.40	1.22	305.88	
11/30/2022	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount

Canal Water	Ground water	0.00	1,244.27	32,674.65	118.21	6,590,405.18 gal
Lagoon Water Effluent	Process wastewater	27.43	48,703.23	42.19	348.80	242,444.34 gal
Application event totals		27.43	49,947.50	32,716.84	467.01	

12/25/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	977.34	25,664.86	92.85	5,176,546.71 gal
Lagoon Water Effluent	Process wastewater	56.08	99,576.40	86.25	713.13	495,690.62 gal
Application event totals		56.08	100,553.74	25,751.11	805.98	

01/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	60.15	106,809.55	92.52	764.93	531,697.20 gal
Canal Water	Ground water	0.05	1,291.63	33,195.00	103.33	6,841,250.60 gal
Application event totals		60.20	108,101.18	33,287.52	868.26	

02/19/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	977.79	0.43	121.00	5,178,946.97 gal
Lagoon Water Effluent	Process wastewater	40.60	72,090.42	62.44	516.29	358,865.61 gal
Application event totals		40.61	73,068.21	62.87	637.29	

03/18/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,488.33	0.65	184.18	7,883,041.12 gal
Lagoon Water Effluent	Process wastewater	17.71	32,137.90	25.14	152.44	186,034.02 gal
Application event totals		17.72	33,626.23	25.79	336.62	

NH4-4

Field name: NH4-4 Crop: Corn, Late Silage Plant date: 05/10/2023

05/10/2023: Corn, Late Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/19/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	128.34	38.26	91.65	5,368.00	346.20 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	484.68 Lbs
Application event totals		142.34	38.26	91.65	5,368.00	
05/05/2023	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 Water	Ground water	0.04	1,070.92	27,522.73	85.67	4,442,824.25 gal
Application event totals		0.04	1,070.92	27,522.73	85.67	
05/26/2023	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 Water	Ground water	0.03	881.71	22,659.96	70.54	3,657,856.52 gal
Application event totals		0.03	881.71	22,659.96	70.54	
06/11/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	920.23	0.40	113.88	3,817,670.19 gal
Lagoon Water Effluent	Process wastewater	34.55	89,749.55	44.02	284.76	527,385.62 gal
Application event totals		34.56	90,669.78	44.42	398.64	
06/19/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,211.19	0.53	149.88	5,024,734.56 gal
Lagoon Water Effluent	Process wastewater	83.75	217,574.68	106.71	690.32	1,278,510.63 gal
Application event totals		83.76	218,785.87	107.24	840.20	
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
Lagoon Water Effluent	Process wastewater	77.59	201,576.54	98.86	639.56	1,184,502.48 gal
Well Water	Ground water	0.01	1,204.62	0.52	149.07	4,997,472.38 gal

Application event totals		77.60	202,781.16	99.38	788.63	
07/19/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	75.13	195,177.29	95.73	619.26	1,146,899.26 gal
Well Water	Ground water	0.01	1,464.31	0.64	181.21	6,074,805.51 gal
Application event totals		75.14	196,641.60	96.37	800.47	
08/03/2023	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 Water	Ground water	0.05	1,334.92	34,307.33	106.79	5,538,018.97 gal
Application event totals		0.05	1,334.92	34,307.33	106.79	

10/03/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/09/2022	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
Canal Water	Ground water	0.00	1,478.81	38,833.50	140.49	6,134,970.84 gal
Application event totals		0.00	1,478.81	38,833.50	140.49	
12/04/2022	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	30.28	53,766.43	46.57	385.06	209,638.14 gal
Well Water	Ground water	0.06	832.76	0.63	157.39	3,454,798.87 gal
Application event totals		30.34	54,599.19	47.20	542.45	
01/08/2023	Surface (Irrigation)		No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.01	1,134.60	0.49	140.41	4,706,987.23 gal
Lagoon Water Effluent	Process wastewater	86.36	153,342.83	132.82	1,098.19	597,891.71 gal
Application event totals		86.37	154,477.43	133.31	1,238.60	
02/05/2023	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
Well Water	Ground water	0.01	895.99	0.39	110.88	3,717,081.61 gal
Lagoon Water Effluent	Process wastewater	94.91	168,532.45	145.98	1,206.97	657,116.86 gal
Application event totals		94.92	169,428.44	146.37	1,317.85	
03/05/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.05	1,423.29	36,578.56	113.86	5,904,651.02 gal
Lagoon Water Effluent	Process wastewater	93.42	165,880.30	143.68	1,187.98	646,775.98 gal
Application event totals		93.47	167,303.59	36,722.24	1,301.84	
04/01/2023	Surface (Irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	43.19	78,375.01	61.31	371.75	355,350.74 gal
Canal Water	Ground water	0.05	1,506.68	38,721.68	120.53	6,250,600.98 gal
Application event totals		43.24	79,881.69	38,782.99	492.28	

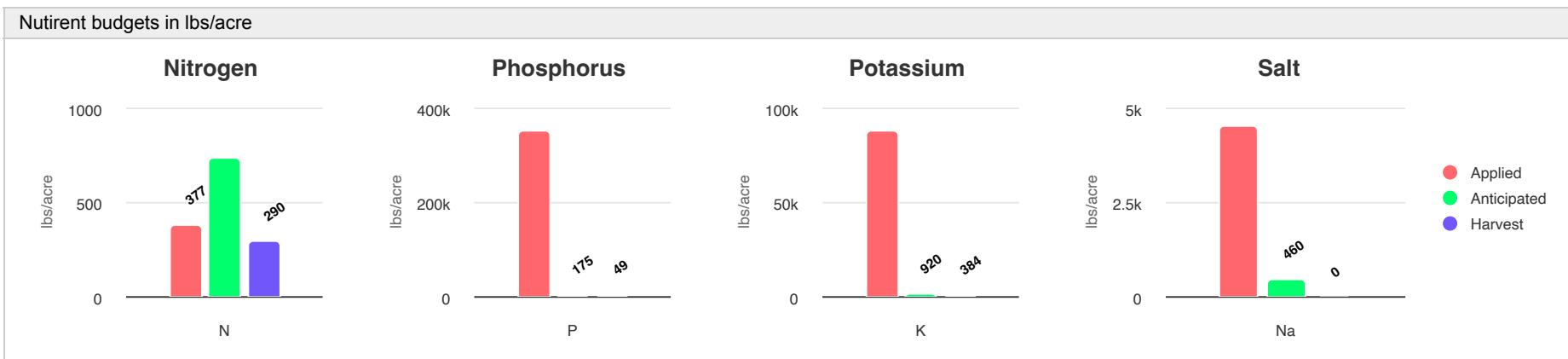
B. NUTRIENT BUDGET

NH-1 - 05/10/2023: Corn, Late Silage

Field name: NH-1

Crop: Corn, Late Silage

Plant date: 05/10/2023



	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	54.05	2.88	2.88	0.00
Dry manure	177.93	45.39	69.48	2,492.16
Process wastewater	131.30	341,080.31	167.28	1,082.18
Fresh water	0.16	8,875.33	87,654.66	949.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	377.44	350,003.91	87,894.30	4,523.45
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	289.77	48.97	383.78	0.00
Nutrient balance	87.67	349,954.93	87,510.52	4,523.45
Applied to removed ratio	1.30	7,146.84	229.02	0.00

Fresh water applied	
111,672,948.05	gallons
4,112.53	acre-inches
39.17	inches/acre

Process wastewater applied	
6,078,758.46	gallons
223.86	acre-inches
2.13	inches/acre

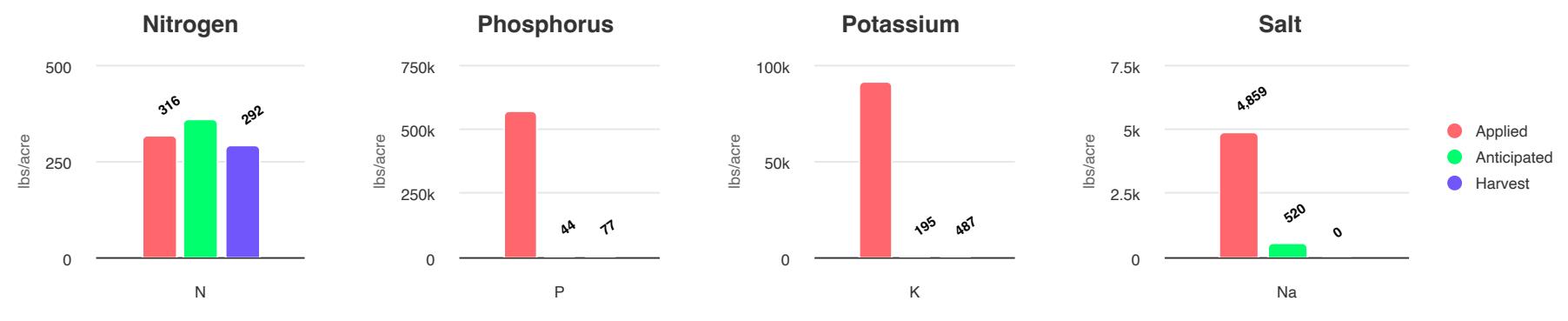
Total Harvests for the crop
1 harvests

Field name: NH-1

Crop: Triticale

Plant date: 10/03/2022

Nutrient budgets 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	315.60	561,935.73	480.87	3,854.90
Fresh water	0.11	8,317.44	90,808.36	1,004.39
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	315.71	570,253.17	91,289.23	4,859.29
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	291.53	76.68	486.91	0.00
Nutrient balance	24.18	570,176.49	90,802.32	4,859.29
Applied to removed ratio	1.08	7,436.60	187.49	0.00

Fresh water applied
104,653,293.98 gallons
3,854.02 acre-inches
36.70 inches/acre

Process wastewater applied
6,780,153.59 gallons
249.69 acre-inches
2.38 inches/acre

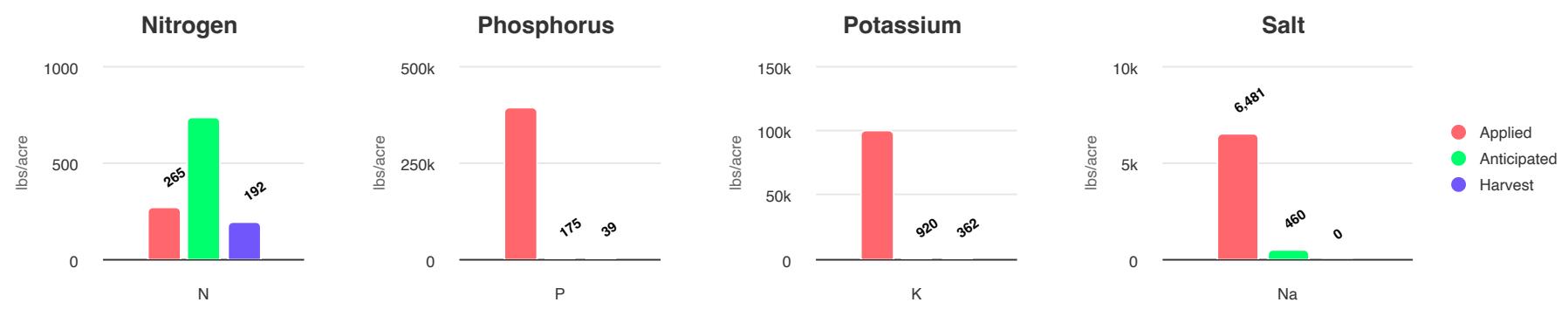
Total Harvests for the crop
1 harvests

Field name: NH-2

Crop: Corn, Late Silage

Plant date: 05/10/2023

Nutrient budgets 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	0.96	2.88	2.88	0.00
Dry manure	102.68	30.61	73.32	4,294.40
Process wastewater	147.55	383,315.39	187.99	1,216.18
Fresh water	0.18	9,211.39	99,470.87	970.58
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	265.37	392,560.27	99,735.06	6,481.16
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	192.02	38.71	361.92	0.00
Nutrient balance	73.34	392,521.56	99,373.13	6,481.16
Applied to removed ratio	1.38	10,141.50	275.57	0.00

Fresh water applied

132,458,603.91 gallons
 4,878.00 acre-inches
 40.65 inches/acre

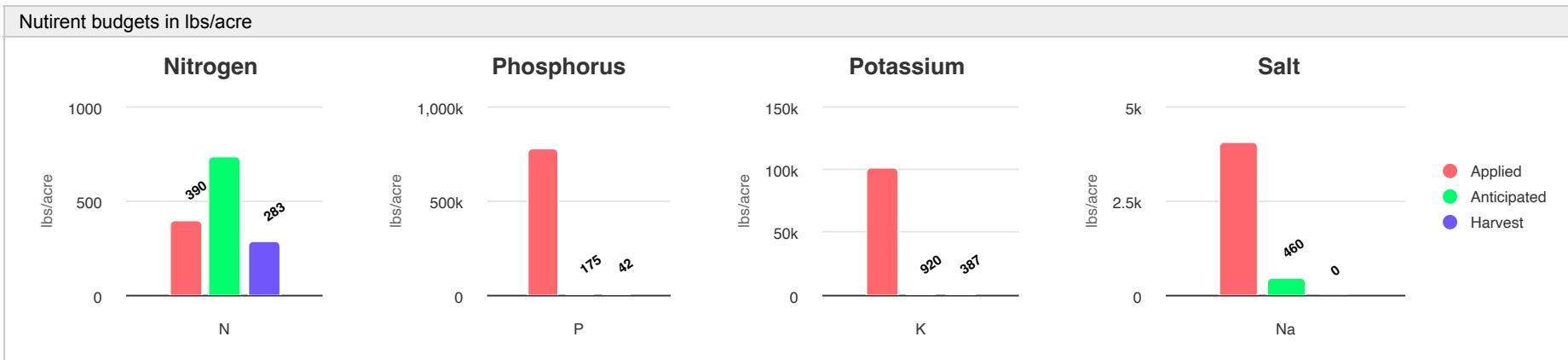
Process wastewater applied

7,807,400.29 gallons
 287.52 acre-inches
 2.40 inches/acre

Total Harvests for the crop

1 harvests

Field name: NH-3 Crop: Corn, Late Silage Plant date: 05/10/2023



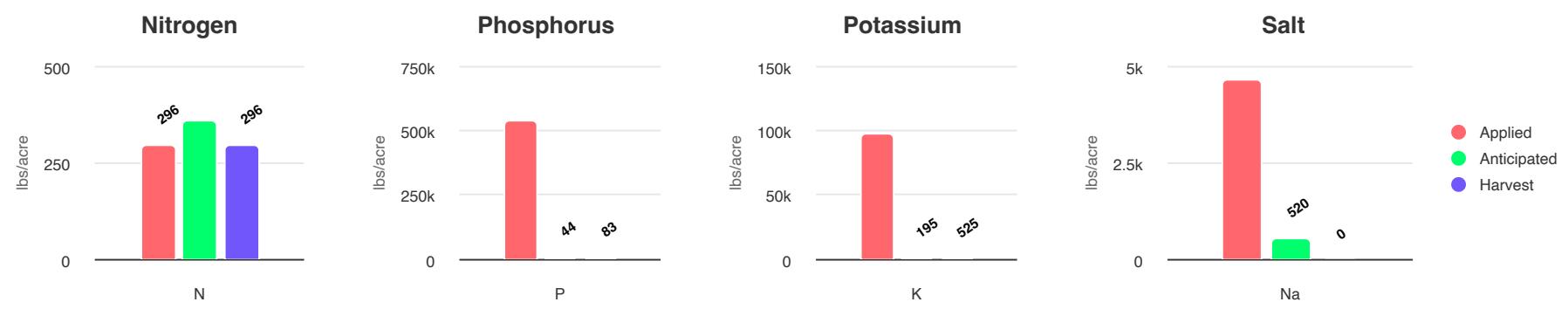
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	126,886,544.38 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,672.80 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.94 inches/acre
Dry manure	80.34	16.52	17.64	680.40	
Process wastewater	295.34	767,270.70	376.31	2,434.40	
Fresh water	0.18	8,823.89	101,217.77	919.66	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	389.86	776,111.11	101,611.72	4,034.46	
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00	
Actual crop nutrient removal	282.94	41.91	386.72	0.00	
Nutrient balance	106.92	776,069.20	101,225.00	4,034.46	
Applied to removed ratio	1.38	18,518.09	262.75	0.00	
Total Harvests for the crop					
1 harvests					

Field name: NH-3

Crop: Triticale

Plant date: 10/03/2022

Nutrient budgets 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	295.62	526,300.66	450.52	3,614.73
Fresh water	0.22	8,302.72	96,392.88	1,039.86
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	295.84	534,603.38	96,843.40	4,654.59
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	295.74	83.34	525.24	0.00
Nutrient balance	0.10	534,520.04	96,318.16	4,654.59
Applied to removed ratio	1.00	6,414.73	184.38	0.00

Fresh water applied

119,391,964.04	gallons
4,396.80	acre-inches
36.64	inches/acre

Process wastewater applied

7,253,452.61	gallons
267.12	acre-inches
2.23	inches/acre

Total Harvests for the crop

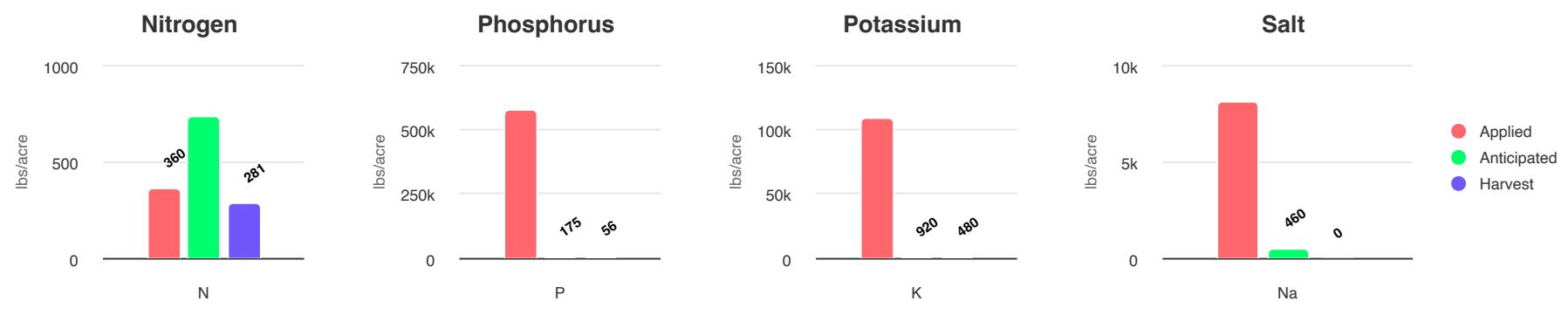
1	harvests
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Field name: NH-6

Crop: Corn, Late Silage

Plant date: 05/10/2023

Nutrient budgets 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	0.96	2.88	2.88	0.00
Dry manure	128.34	38.26	91.65	5,368.00
Process wastewater	216.83	563,294.43	276.27	1,787.23
Fresh water	0.19	9,252.18	107,973.31	961.15
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	360.32	572,587.75	108,344.11	8,116.38
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	280.79	56.36	479.70	0.00
Nutrient balance	79.54	572,531.38	107,864.41	8,116.38
Applied to removed ratio	1.28	10,158.69	225.86	0.00

Fresh water applied

177,393,518.71 gallons
 6,532.80 acre-inches
 40.83 inches/acre

Process wastewater applied

15,297,638.33 gallons
 563.36 acre-inches
 3.52 inches/acre

Total Harvests for the crop

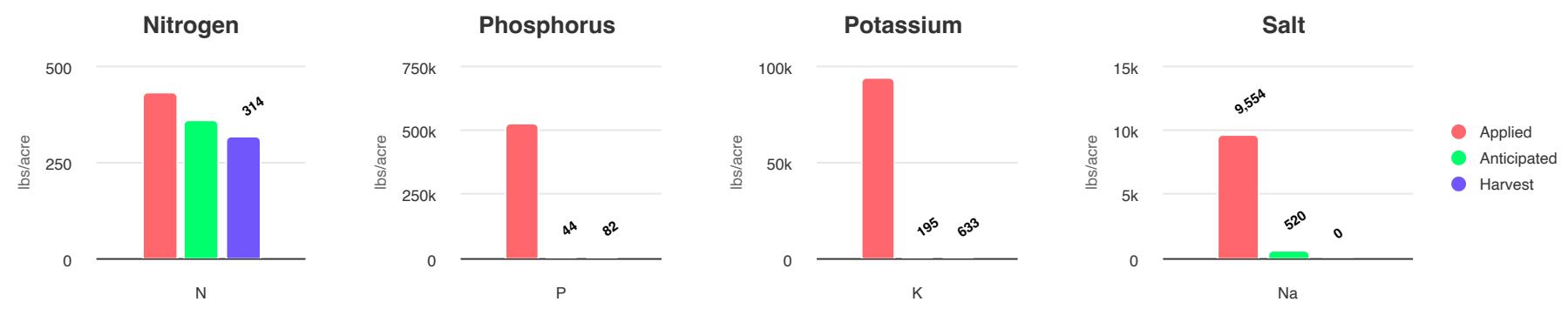
1 harvests

Field name: NH-6

Crop: Triticale

Plant date: 10/03/2022

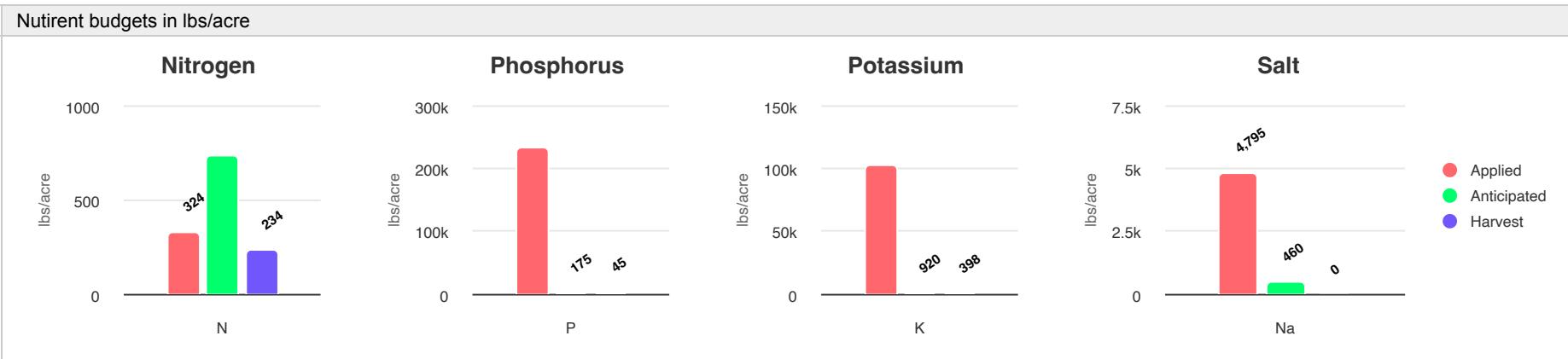
Nutrient budgets in lbs/acre



	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	140.67	36.33	69.82	4,919.10
Process wastewater	290.16	515,241.57	446.30	3,689.99
Fresh water	0.14	8,113.50	92,742.58	944.98
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	430.97	523,391.40	93,258.70	9,554.07
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	313.54	82.13	633.01	0.00
Nutrient balance	117.43	523,309.27	92,625.68	9,554.07
Applied to removed ratio	1.37	6,372.34	147.32	0.00

Fresh water applied
155,561,472.67 gallons
5,728.80 acre-inches
35.81 inches/acre
Process wastewater applied
9,284,593.31 gallons
341.92 acre-inches
2.14 inches/acre
Total Harvests for the crop
1 harvests

Field name: NH-7 Crop: Corn, Late Silage Plant date: 05/10/2023



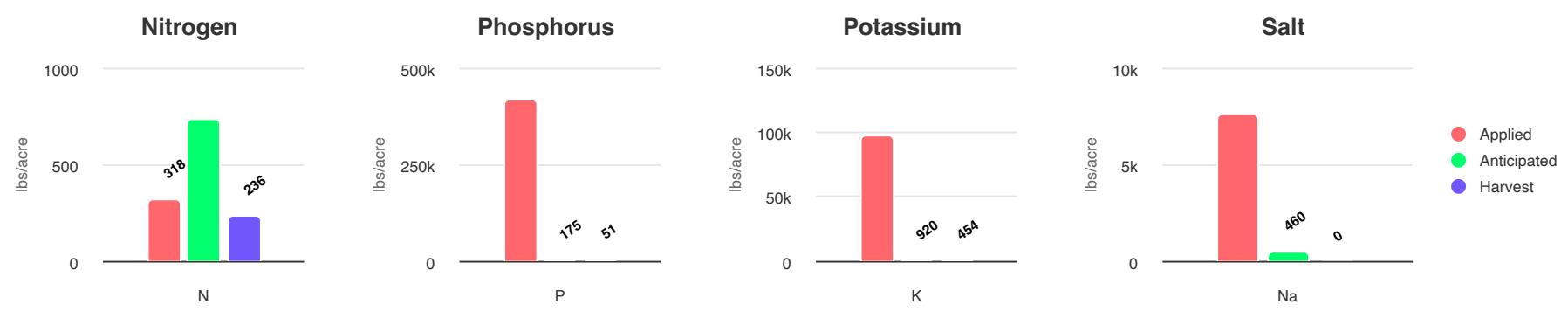
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	8,852,296.90 gallons
Plowdown credit	0.00	0.00	0.00	0.00	326.00 acre-inches
Commercial fertilizer / Other	0.96	2.88	2.88	0.00	40.75 inches/acre
Dry manure	222.41	56.73	86.85	3,115.20	
Process wastewater	86.34	224,293.89	110.00	711.65	
Fresh water	0.18	9,234.04	102,615.61	968.03	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	323.89	233,587.54	102,815.34	4,794.88	
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00	
Actual crop nutrient removal	233.85	44.84	397.69	0.00	
Nutrient balance	90.03	233,542.70	102,417.65	4,794.88	
Applied to removed ratio	1.39	5,208.83	258.53	0.00	
Process wastewater applied					
					304,562.46 gallons
					11.22 acre-inches
					1.40 inches/acre
Total Harvests for the crop					
					1 harvests

Field name: NH4-1

Crop: Corn, Late Silage

Plant date: 05/10/2023

Nutrient budgets 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	18.66	2.88	2.88	0.00
Dry manure	128.34	38.26	91.65	5,368.00
Process wastewater	157.03	407,952.52	200.08	1,294.36
Fresh water	0.17	8,906.83	96,966.59	937.16
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	318.20	416,900.49	97,261.20	7,599.52
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	236.12	51.02	453.58	0.00
Nutrient balance	82.08	416,849.47	96,807.62	7,599.52
Applied to removed ratio	1.35	8,172.12	214.43	0.00

Fresh water applied

21,346,526.86	gallons
786.12	acre-inches
39.31	inches/acre

Process wastewater applied

1,384,868.56	gallons
51.00	acre-inches
2.55	inches/acre

Total Harvests for the crop

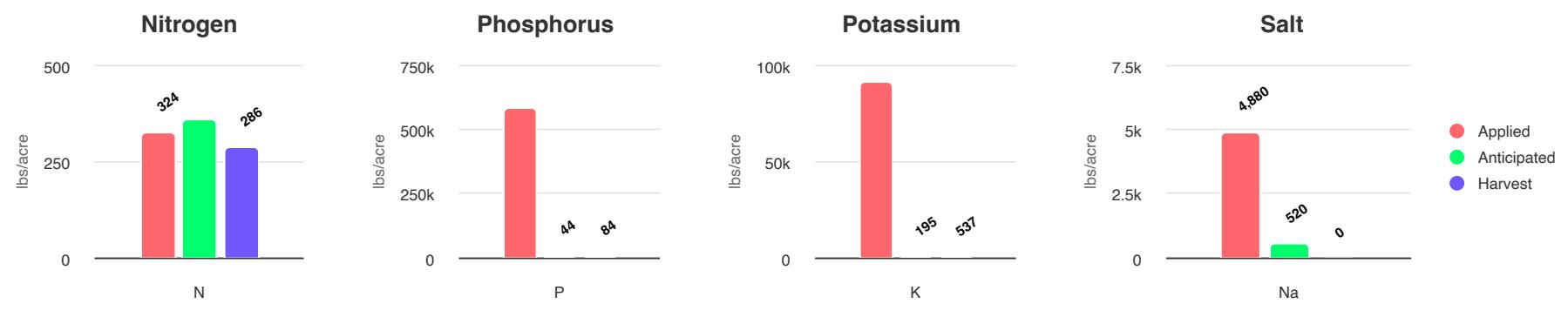
1	harvests
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Field name: NH4-1

Crop: Triticale

Plant date: 10/03/2022

Nutrient budgets 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	323.85	576,739.21	492.98	3,940.87
Fresh water	0.33	6,900.05	90,471.14	939.31
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	324.18	583,639.26	90,964.12	4,880.18
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	286.20	83.70	537.30	0.00
Nutrient balance	37.98	583,555.56	90,426.82	4,880.18
Applied to removed ratio	1.13	6,972.99	169.30	0.00

Fresh water applied		
16,536,960.34	gallons	
609.00	acre-inches	
30.45	inches/acre	

Process wastewater applied		
1,327,844.55	gallons	
48.90	acre-inches	
2.44	inches/acre	

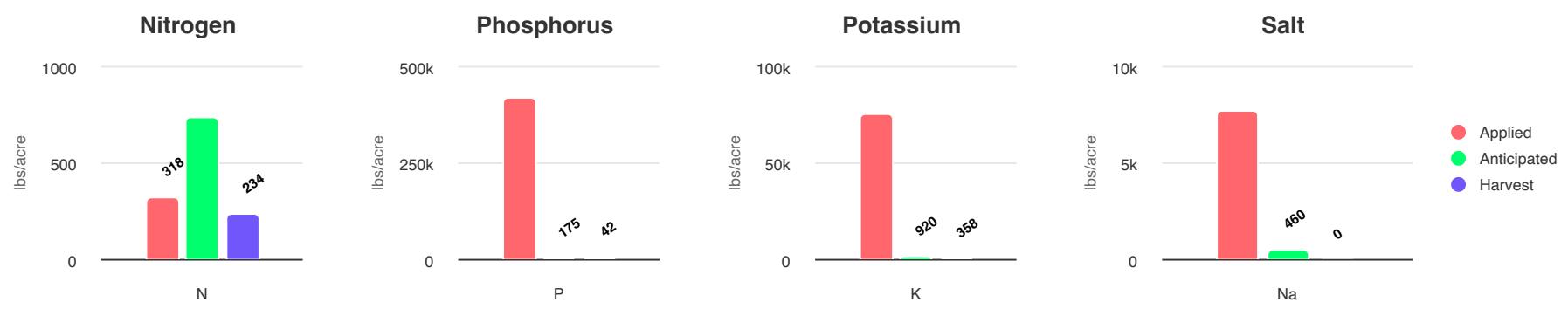
Total Harvests for the crop		
1	harvests	

Field name: NH4-2

Crop: Corn, Late Silage

Plant date: 05/10/2023

Nutrient budgets 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	18.66	2.88	2.88	0.00
Dry manure	128.34	38.26	91.65	5,368.00
Process wastewater	157.03	407,952.52	200.08	1,294.36
Fresh water	0.16	8,884.17	74,406.01	972.76
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	318.19	416,877.83	74,700.62	7,635.12
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	233.80	41.82	357.60	0.00
Nutrient balance	84.39	416,836.01	74,343.02	7,635.12
Applied to removed ratio	1.36	9,968.66	208.89	0.00

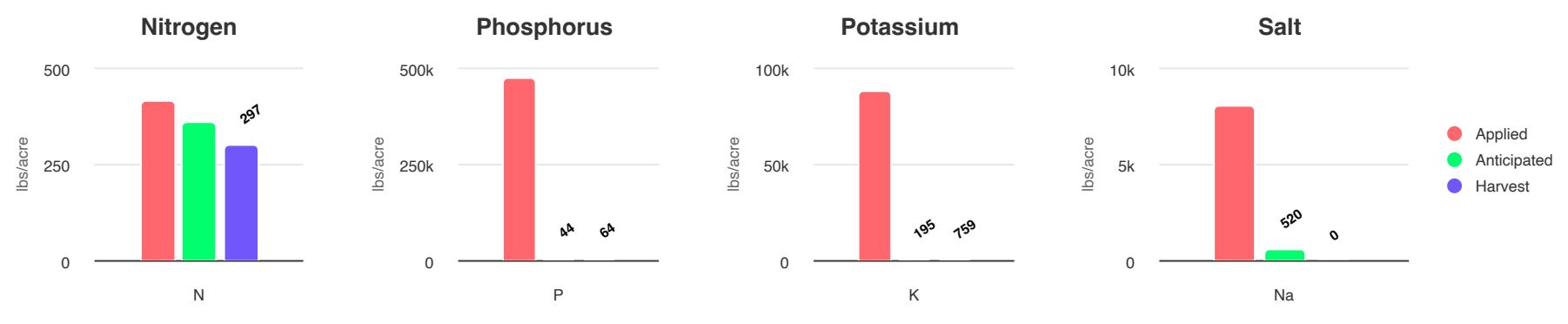
Fresh water applied		
48,439,797.32	gallons	
1,783.87	acre-inches	
39.21	inches/acre	
Process wastewater applied		
3,150,575.96	gallons	
116.02	acre-inches	
2.55	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: NH4-2

Crop: Triticale

Plant date: 10/03/2022

Nutrient budgets 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	151.08	63.80	154.37	4,081.20
Process wastewater	260.44	464,143.14	395.45	3,134.49
Fresh water	0.03	6,941.97	87,534.64	763.23
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	411.55	471,148.91	88,084.46	7,978.92
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	297.13	64.14	759.20	0.00
Nutrient balance	114.41	471,084.77	87,325.26	7,978.92
Applied to removed ratio	1.39	7,345.74	116.02	0.00

Fresh water applied
37,850,155.32 gallons
1,393.89 acre-inches
30.64 inches/acre

Process wastewater applied
2,443,858.51 gallons
90.00 acre-inches
1.98 inches/acre

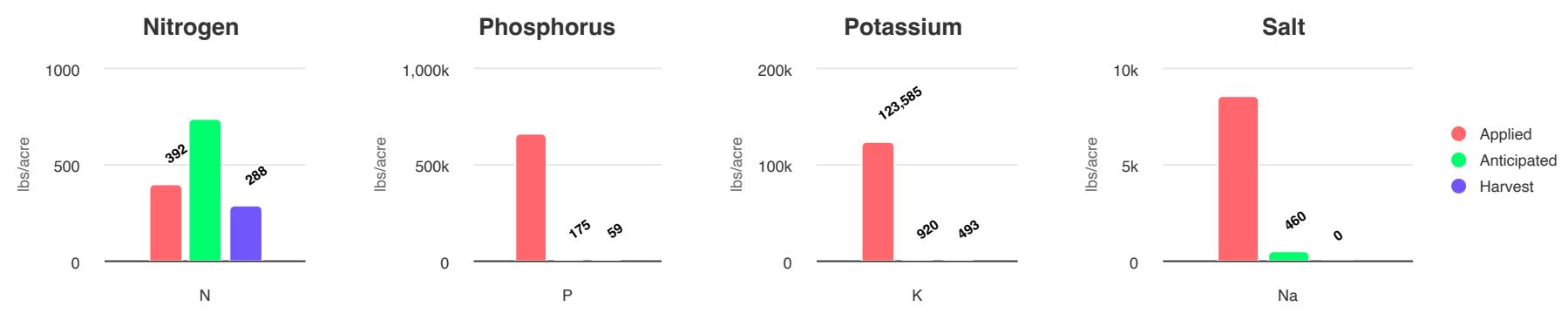
Total Harvests for the crop
1 harvests

Field name: NH4-3

Crop: Corn, Late Silage

Plant date: 05/10/2023

Nutrient budgets 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	0.96	2.88	2.88	0.00
Dry manure	128.34	38.26	91.65	5,368.00
Process wastewater	248.61	645,844.83	316.76	2,049.15
Fresh water	0.22	10,442.75	123,173.39	1,082.61
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	392.13	656,328.72	123,584.68	8,499.76
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	288.26	58.97	492.62	0.00
Nutrient balance	103.88	656,269.74	123,092.05	8,499.76
Applied to removed ratio	1.36	11,128.99	250.87	0.00

Fresh water applied

55,310,913.00	gallons
2,036.91	acre-inches
46.08	inches/acre

Process wastewater applied

4,845,285.93	gallons
178.44	acre-inches
4.04	inches/acre

Total Harvests for the crop

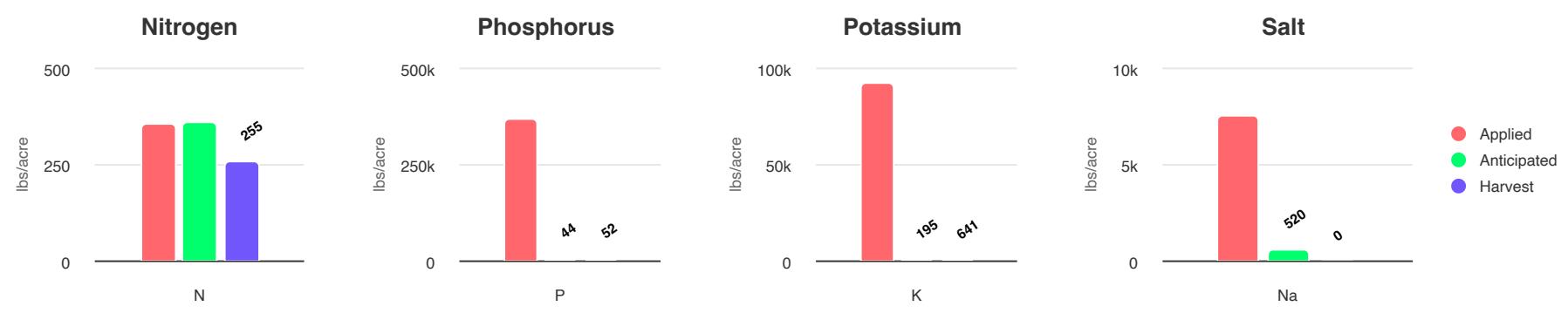
1	harvests
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Field name: NH4-3

Crop: Triticale

Plant date: 10/03/2022

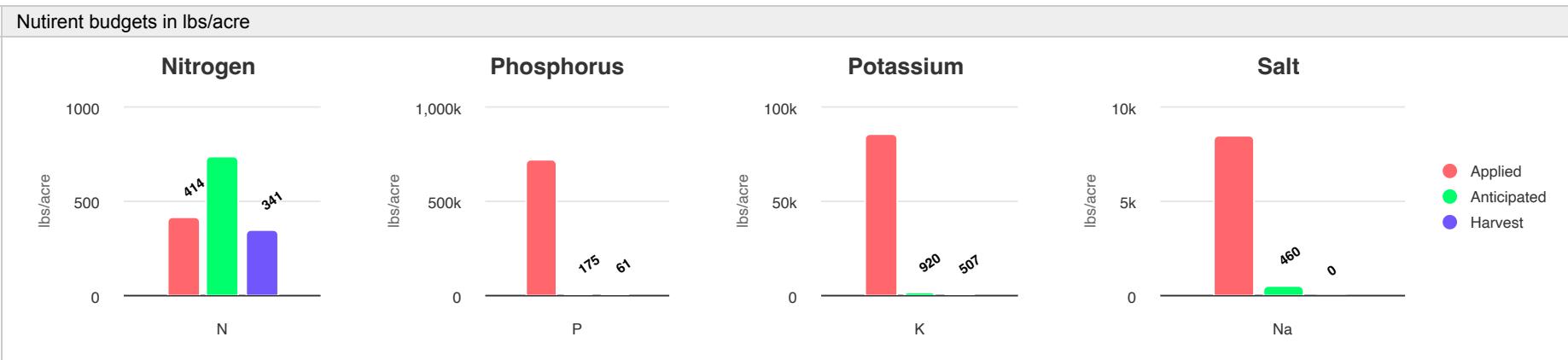
Nutrient budgets in lbs/acre



	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	151.08	63.80	154.37	4,081.20
Process wastewater	201.97	359,317.50	308.54	2,495.59
Fresh water	0.19	7,597.76	91,536.81	925.45
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	353.24	366,979.06	91,999.72	7,502.24
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	255.25	52.36	641.39	0.00
Nutrient balance	97.99	366,926.70	91,358.33	7,502.24
Applied to removed ratio	1.38	7,008.98	143.44	0.00

Fresh water applied		
40,242,158.08	gallons	
1,481.98	acre-inches	
33.53	inches/acre	
Process wastewater applied		
1,814,731.78	gallons	
66.83	acre-inches	
1.51	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: NH4-4 Crop: Corn, Late Silage Plant date: 05/10/2023



	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	128.34	38.26	91.65	5,368.00
Process wastewater	271.02	704,078.06	345.32	2,233.90
Fresh water	0.16	8,087.90	84,492.11	857.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	413.52	712,204.22	84,929.08	8,458.94
Anticipated crop nutrient removal	736.00	174.80	920.00	460.00
Actual crop nutrient removal	340.61	60.59	506.60	0.00
Nutrient balance	72.92	712,143.63	84,422.48	8,458.94
Applied to removed ratio	1.21	11,753.85	167.65	0.00

Fresh water applied
33,553,382.38 gallons
1,235.66 acre-inches
35.69 inches/acre

Process wastewater applied
4,137,297.99 gallons
152.36 acre-inches
4.40 inches/acre

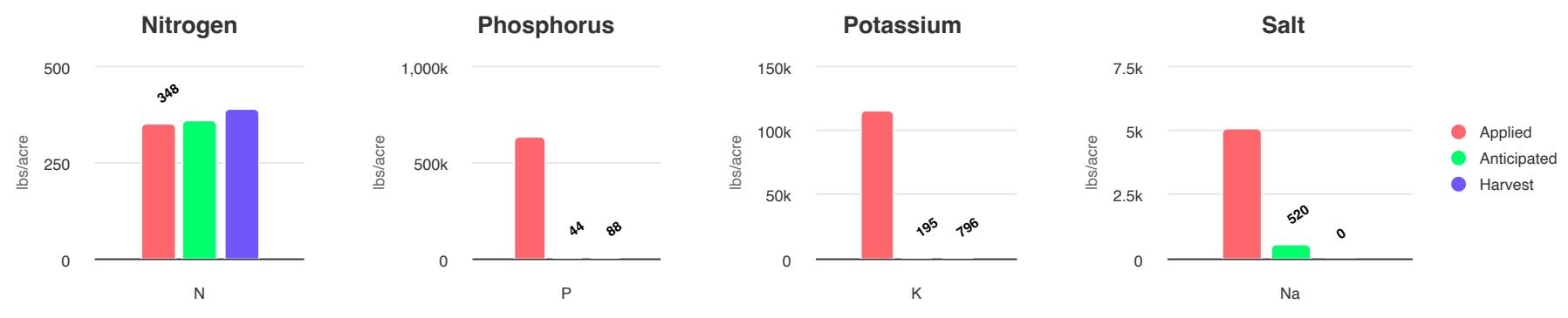
Total Harvests for the crop
1 harvests

Field name: NH4-4

Crop: Triticale

Plant date: 10/03/2022

Nutrient budgets 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	348.16	619,897.02	530.36	4,249.95
Fresh water	0.18	7,272.13	114,135.25	783.56
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	348.34	627,169.15	114,665.61	5,033.51
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	386.27	88.10	796.26	0.00
Nutrient balance	-37.93	627,081.05	113,869.35	5,033.51
Applied to removed ratio	0.90	7,119.13	144.01	0.00

Fresh water applied		
30,169,090.55	gallons	
1,111.03	acre-inches	
32.09	inches/acre	

Process wastewater applied		
2,466,773.43	gallons	
90.84	acre-inches	
2.62	inches/acre	

Total Harvests for the crop		
1	harvests	

NUTRIENT ANALYSES

A. MANURE ANALYSES

T3090008A

Sample and source description name:	T3090008A									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	51.2%									

	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	13,150.00	3,920.00	9,390.00	12,550.00	10,460.00	2,830.00	2,700.00	878.00	9,390.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3090008B

Sample and source description name:	T3090008B									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	75.7%									

	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	16,530.00	3,400.00	3,630.00	11,470.00	4,730.00	1,510.00	2,700.00	742.00	3,630.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167058A

Sample and source description name:	T3167058A									
Sample date:	06/12/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	5.6%									

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	23,560.00	6,010.00	9,200.00	8,240.00	7,010.00	4,630.00	2,700.00	735.00	9,200.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167058B

Sample and source description name:	T3167058B									
Sample date:	06/12/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	

Moisture: 69.6%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	13,660.00	1,650.00	920.00	6,000.00	2,880.00	1,040.00	2,200.00	403.00	920.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263081A

Sample and source description name:

T3263081A

Sample date: 09/15/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 13.7%

	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	16,300.00	4,210.00	8,090.00	9,670.00	6,270.00	2,980.00	2,520.00	723.00	8,090.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263081B

Sample and source description name:

T3263081B

Sample date: 09/15/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 69.2%

	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	14,700.00	1,610.00	2,330.00	7,200.00	2,780.00	890.00	3,130.00	462.00	2,330.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362039A

Sample and source description name:

T3362039A

Sample date: 12/22/2023

Material type: Corral solids

Source of analysis:

Lab Analysis

Method of reporting:

As-is

Moisture: 48.9%

	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	15,820.00	4,860.00	31,320.00	12,910.00	9,200.00	7,320.00	4,560.00	1,156.00	31,320.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

Value	324.80	0.00	257.60	0.05	34.90	402.10	47.66	72.41	194.17	0.00	0.00	166.99	169.21	4.19	77,700.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3362077A

Sample and source description name:

T3362077A

Sample date: 12/22/2023

Material type: Process wastewater

Source of analysis:

Lab Analysis

pH:

0

	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 (mmhos/cm)	TDS (mg/L)
Value	422.80	0.00	316.40	0.00	42.80	457.31	91.25	64.39	220.68	0.00	0.00	233.54	263.08	5.29	3,820.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

C. FRESH WATER ANALYSES

4-3

T3228022A

Sample and source description name:

T3228022A

Sample date: 08/14/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00	1.13	0.00	63.78	0.00	0.00	42.00	17.40	0.32	140.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

4-4

T3228022B

Sample and source description name:

T3228022B

Sample date: 08/14/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00	2.85	0.02	66.91	0.00	0.00	45.47	22.04	0.35	135.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

Lakeview Well

T3228022C

Sample and source description name: T3228022C

Sample date: 08/14/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00	3.89	0.06	63.48	0.00	0.00	46.59	15.10	0.34	140.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

Canal - Kern Delta

T3362072C-178-186

Sample and source description name: T3362072C-178-186

Sample date: 12/27/2023

Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	5.64	0.00	0.04	16.51	6.29	23.76	0.00	0.00	23.77	27.71	0.28	80.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

D. SOIL ANALYSES

NH-1

19083_1

Sample description: 19083_1

Sample date: 09/08/2023

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	39.16	0.00	0.00	0.00	3.05	2.91	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH-2

17620_1

Sample
description:

17620_1

Sample date:

08/11/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	72.40	0.00	0.00	0.00	1.94	4.78	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH-3

18967_1

Sample
description:

18967_1

Sample date:

09/06/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	16.16	0.00	0.00	0.00	1.60	3.07	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH4-1

19770_1

Sample
description:

19770_1

Sample date:

09/21/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	35.37	0.00	0.00	0.00	0.99	1.87	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH4-2

19770_2

Sample
description:

19770_2

Sample date:

09/21/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	16.92	0.00	0.00	0.00	1.43	1.33	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH4-3

19770_3

Sample
description:

19770_3

Sample date:

09/21/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	29.19	0.00	0.00	0.00	0.63	1.64	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH4-4

19578_3

Sample
description:

19578_3

Sample date:

09/18/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	30.70	0.00	0.00	0.00	1.26	2.38	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH-5

19653_1

Sample
description:

19653_1

Sample date:

09/19/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	16.40	0.00	0.00	0.00	2.49	0.00	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH-6

19578_1

Sample
description:

19578_1

Sample date:

09/18/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	5.68	0.00	0.00	0.00	0.83	1.42	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

NH-7

19578_2

Sample
description:

19578_2

Sample date:

09/18/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	114.67	0.00	0.00	0.00	2.22	4.34	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

E. PLANT TISSUE ANALYSES

NH-1 - 05/01/2023: Corn, Late Silage

T3342001A

Sample description: T3342001A

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	21,360.00	3,610.00	28,290.00	310.00	0.00
DL	100.00	200.00	500.00		0.10

NH-2 - 04/14/2023: Corn, Late Silage

T3139025B

Sample description: T3139025B

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	18,210.00	4,410.00	33,920.00	220.00	0.00
DL	100.00	200.00	500.00		0.10

NH-3 - 04/15/2023: Corn, Late Silage

T3342001C

Sample description: T3342001C

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	18,430.00	2,730.00	25,190.00	170.00	0.00

DL	100.00	200.00	500.00		0.10

NH-6 - 04/15/2023: Corn, Late Silage

T3342001D

Sample description:	T3342001D		
Sample date:	11/03/2023	Source of analysis:	Lab Analysis
Moisture:	0%		

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	16,290.00	3,270.00	27,830.00	180.00	0.00
DL	100.00	200.00	500.00		0.10

NH-7 - 05/01/2023: Corn, Late Silage

T3342001E

Sample description:	T3342001E		
Sample date:	11/03/2023	Source of analysis:	Lab Analysis
Moisture:	0%		

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,000.00	3,260.00	28,910.00	170.00	0.00
DL	100.00	200.00	500.00		0.10

NH4-1 - 04/16/2023: Corn, Late Silage

T3342001F

Sample description:	T3342001F		
Sample date:	11/03/2023	Source of analysis:	Lab Analysis
Moisture:	0%		

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	16,570.00	3,580.00	31,830.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

NH4-2 - 04/17/2023: Corn, Late Silage

T3342002B

Sample description: T3342002B

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	16,940.00	3,030.00	25,910.00	160.00	0.00
DL	100.00	200.00	500.00		0.10

NH4-3 - 04/17/2023: Corn, Late Silage

T3342002C

Sample description: T3342002C

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,810.00	3,030.00	25,310.00	170.00	0.00
DL	100.00	200.00	500.00		0.10

NH4-4 - 04/19/2023: Corn, Late Silage

T3342002A

Sample description:	T3342002A				
Sample date:	11/03/2023	Source of analysis:	Lab Analysis	Method of reporting:	Dry
Mositure:	0%				
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)

Value	18,550.00	3,300.00	27,590.00	170.00	0.00
DL	100.00	200.00	500.00		0.10

NH-1 - 10/01/2022: Triticale

T3139025A

Sample description:	T3139025A				
Sample date:	05/16/2023	Source of analysis:	Lab Analysis	Method of reporting:	Dry
Mositure:	0%				
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)

Value	17,070.00	4,490.00	28,510.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

NH-3 - 10/01/2022: Triticale

T3139025C

Sample description:	T3139025C				
Sample date:	05/16/2023	Source of analysis:	Lab Analysis	Method of reporting:	Dry
Mositure:	0%				
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)

Value	16,430.00	4,630.00	29,180.00	190.00	0.00
DL	100.00	200.00	500.00		0.10

NH-6 - 10/01/2022: Triticale

T3139025D

Sample
description: T3139025D

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,980.00	4,710.00	36,300.00	220.00	0.00
DL	100.00	200.00	500.00		0.10

NH4-1 - 10/01/2022: Triticale

T3139026A

Sample
description: T3139026A

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,900.00	4,650.00	29,850.00	200.00	0.00
DL	100.00	200.00	500.00		0.10

NH4-2 - 10/01/2022: Triticale

T3139026B

Sample
description: T3139026B

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	22,700.00	4,900.00	58,000.00	0.09	0.00
DL	100.00	200.00	500.00		0.10

NH4-3 - 10/01/2022: Triticale

T3139026C

Sample description: T3139026C

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	19,500.00	4,000.00	49,000.00	0.03	0.00
DL	100.00	200.00	500.00		0.10

NH4-4 - 10/01/2022: Triticale

T3139026D

Sample description: T3139026D

Sample date: 05/16/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	22,800.00	5,200.00	47,000.00	0.03	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

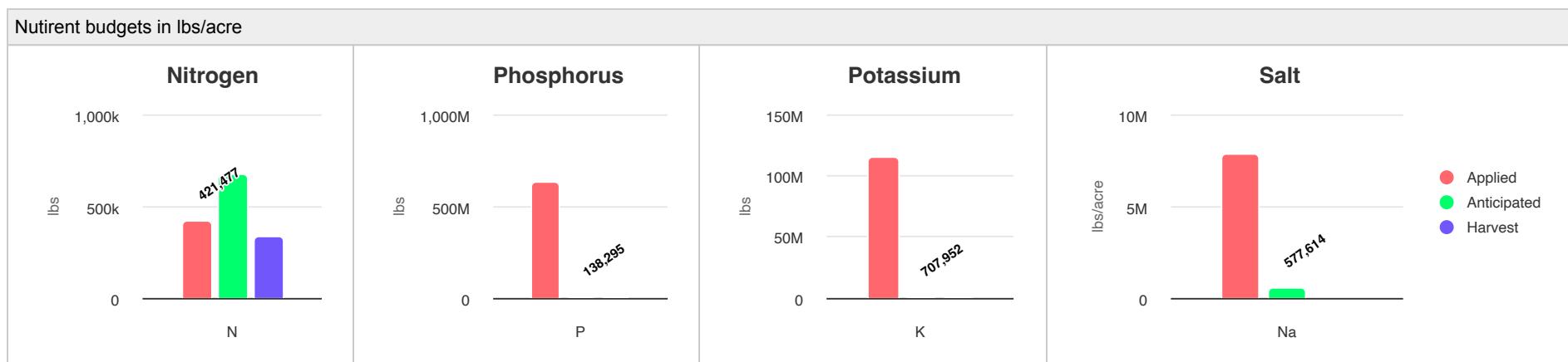
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

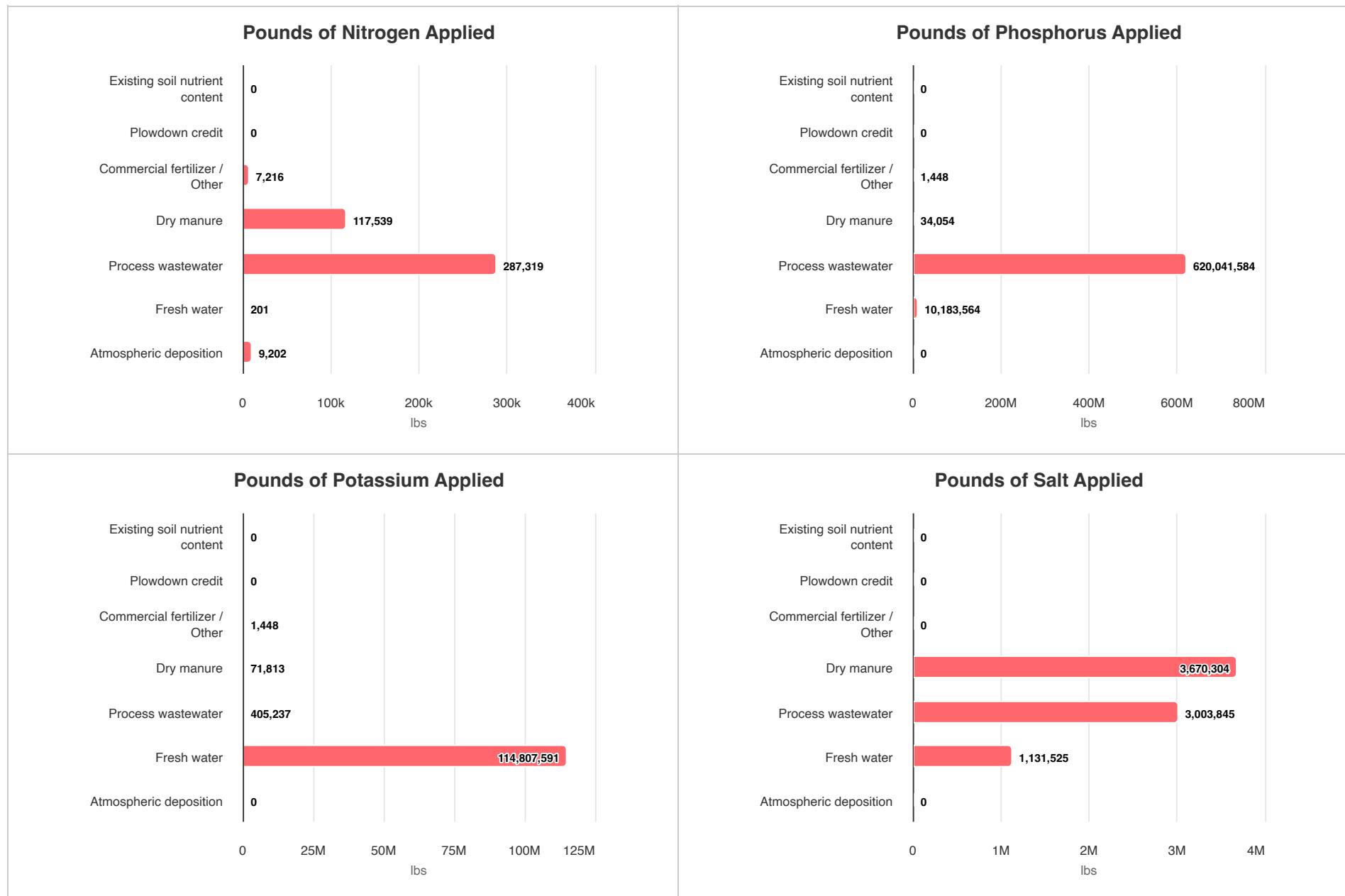
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	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	7,216.39	1,447.78	1,447.78	0.00
Dry manure	117,538.91	34,054.00	71,812.54	0.00
Process wastewater	287,318.95	620,041,584.06	405,237.47	4,249.95
Fresh water	200.73	10,183,563.72	114,807,590.95	783.56
Atmospheric deposition	9,202.48	0.00	0.00	0.00
Total nutrients applied	421,477.46	630,260,649.55	115,286,088.74	7,805,673.78
Anticipated crop nutrient removal	673,707.54	138,295.48	707,951.80	577,613.60
Actual crop nutrient removal	334,274.88	72,971.49	591,363.40	0.00
Nutrient balance	87,202.58	630,187,678.07	114,694,725.34	7,805,673.78
Applied to removed ratio	1.26	8,637.08	194.95	0.00

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period?

Yes

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

Yes

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

Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?

No

ADDITIONAL NOTES

A. NOTES

Well Specific Notes

2023 Non Op Wells: 5, D1

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

Eduardo Echeverria

PRINT OR TYPE NAME

6/29/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

Eduardo Echeverria

PRINT OR TYPE NAME

6/29/2024

DATE

REQUIRED 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.

Discharge Maps

Provide map(s) showing the discharge and sample locations for each discharge or release of waste to land areas (land application areas or otherwise) or surface water.

Discharge Lab Reports

Provide copies of laboratory analyses of all discharges (manure, process wastewater, or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results.

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.

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Eduardo Echeverria
Facility Name: Newhouse Dairy
Facility Address: 16130 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93311

Contact:

Name: Eduardo Echeverria
Number: 661-599-3578

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

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

Manure Hauler / Processor Information:

Name: Watts manure spreading
Facility Address: 13214 Eberle Rd.
Facility City/State: Bakersfield, CA 93311

Contact:

Name: Hayley Watts
Number: (661) 979-3359

Manure Destination Compost

Destination Information:

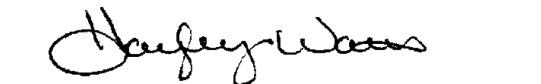
Name: Watts Manure Spreading
Facility Address: 13214 Eberle Rd
Facility City/State: Bakersfield, CA

Contact:

Name: Watts Manure Spreading
Number: 661-742-888

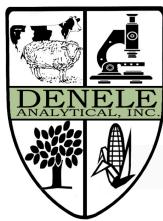
Signature of Owner:**Date:**

12/30/2023

Signature of Hauler:**Date:**

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
May 1, 2023 - May, 31 2023	9,284	ton	68 %
Jun 1, 2023 - Jun, 30 2023	18,496	ton	66 %
Jul 1, 2023 - Jul, 31 2023	6,941	ton	69 %
Total	34,721		



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Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

New House Dairy
4551 Bear Mountain Blvd
Bakersfield, CA 93313

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/17/23

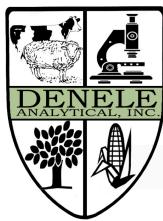
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-3	T3228022A	Boron (B)	EPA 200.7	0.196	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Compliance Analysis Report

Customer

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Bakersfield, CA 93313

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/17/23

Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-3	T3228022A	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.320	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	70.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	4.00	mg/L
		Sulfate (SO4)	EPA 375.2	42.0	mg/L
		Sodium (Na)	EPA 200.7	63.8	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	140	mg/L
		Calcium (Ca)	EPA 200.7	1.13	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	17.4	mg/L
		Soluble Salts (SALT-SOL)	Calculation	204	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO3-N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO4)	103	114 (T3228016A)	107 (T3228016A)	410 (T3228024B)	435 (Dup)	5.66
Total Dissolved Solids (TDS)	109					5.92

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Compliance Analysis Report

Customer

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Bakersfield, CA 93313

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

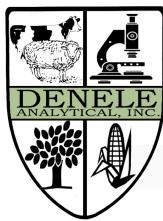
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-3	T3228022A	pH (pH)	SM4500-H+ B-2000	8.0	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Compliance Analysis Report

Customer

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PURCHASE ORDER:

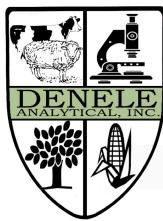
RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-3	T3228022A	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Compliance Analysis Report

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Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/17/23

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-4	T3228022B	Boron (B)	EPA 200.7	0.182	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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ANALYZED DATE: 8/17/23

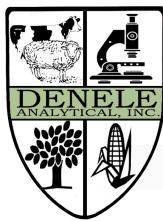
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-4	T3228022B	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.347	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	74.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	2.00	mg/L
		Sulfate (SO4)	EPA 375.2	45.5	mg/L
		Sodium (Na)	EPA 200.7	66.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	135	mg/L
		Calcium (Ca)	EPA 200.7	2.85	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	22.0	mg/L
		Soluble Salts (SALT-SOL)	Calculation	222	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO3-N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO4)	103	114 (T3228016A)	107 (T3228016A)	410 (T3228024B)	435 (Dup)	5.66
Total Dissolved Solids (TDS)	109					5.92

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www.denelelabs.com

40 N. East Street, Woodland, CA 95776
Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

New House Dairy
4551 Bear Mountain Blvd
Bakersfield, CA 93313

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

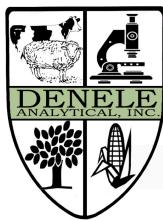
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-4	T3228022B	pH (pH)	SM4500-H+ B-2000	8.0	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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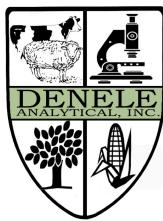
RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
4-4	T3228022B	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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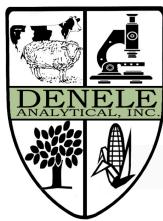
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Lakeview Well	T3228022C	Boron (B)	EPA 200.7	2.28	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Lakeview Well	T3228022C	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.344	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	78.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	46.6	mg/L
		Sodium (Na)	EPA 200.7	63.5	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	140	mg/L
		Calcium (Ca)	EPA 200.7	3.89	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	15.1	mg/L
		Soluble Salts (SALT-SOL)	Calculation	220	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	97.8	100 (T3228016A)	102 (T3228016A)			1.78
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	96.4 (T3228016A)	96.9 (T3228016A)			0.559
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO3-N)	105	100 (T3228016A)	96.7 (T3228016A)			3.70
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO4)	103	114 (T3228016A)	107 (T3228016A)	410 (T3228024B)	435 (Dup)	5.66
Total Dissolved Solids (TDS)	109					5.92

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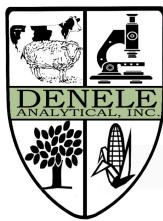
Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Lakeview Well	T3228022C	Icon Sampling Fee (ISF)	1664B	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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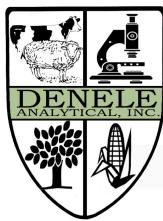
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Lakeview Well	T3228022C	pH (pH)	SM4500-H+ B-2000	8.0	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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ANALYZED DATE: 8/22/23

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
Lakeview Well	T3228022C	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Irrigation / Ground / Tile Water



9530 Hageman Rd. Ste B, #292 Bakersfield, CA 93312

Dominic Patino

(661) 333-7776

(661) 215-5168

dpatino@iconaginc.com

Date

8-14-2023

Sampled By

TONY

Lab Name

Denele

Newhouse Dairy

Ranch: Home Ranch

***Required Field Measurement

NH4-N Check here if performed

Analysis Types

W5 - Ag Suitability (Non-Compliance)

W2 - W1 + Ca, Mg, Na, Bicard, SO4, Cl, B

W4 - pH, SpCon, TDS, Ca, CO3, Ca, Mg, Na, K, SO4, Cl, B (Reg 3 comp)

W1 - EC, pH, NO3-N, TN, TDS, NH4-N*** (Reg 5 comp)

W3 - W2 + TP, NH4-N, Carb (tile drain)

Weather Conditions

SH - Sunny & Hot

CC - Cold & Cloudy

SW - Sunny & Warm

CCL - Cold & Clear

R - Rainy

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	SH	84	1

CHAIN



23.O1

Newhouse Dairy

4-3

W

Ranch: Home Ranch

Date: 8-14-2023 9:30 am

IW 35.223250, -119.190496

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	SH	84	1

CHAIN



23.O1

Newhouse Dairy

4-4

W

Ranch: Home Ranch

Date: 8-14-2023 9:40 am

IW 35.220256, -119.185661

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	SH	84	1

CHAIN



23.O1

Newhouse Dairy

Lakeview Well

W

Ranch: Home Ranch

Date: 8-14-2023 9:50 am

IW 35.212671, -119.199165

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only
1st	Antonio Merz	Icon Ag		8-15-2023 7:00 am	Logged in By: Laboratory #
2nd					
3rd					
4th	Darlene		8-16-23 10:20		T3D28022