Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: John DeGroot & Son L.L.P.

Physical address of dairy:

Number and Street	City	County	Zip Code
6105 W Lincoln AVE	Fresno	Fresno	93706

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 06/12/2000

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

County Assessor Parcel Number(s) for dairy facility:

0035-0040-0012-0000

B. OPERATORS

DeGroot, Charles Peter

Operator name: DeGroot, Charles Peter

Telephone no.: (559) 233-3596 (Landline) (Cellular)

Mailing Address Number and Street	City	State	Zip Code
6939 W Lincoln AVE	Fresno	CA	93706

This operator is responsible for paying permit fees.

DeGroot, Jonathon Cornelis

Operator name: DeGroot, Jonathon Cornelis

Telephone no.: (559) 352-6340 (Landline) (Cellular)

Mailing Address Number and Street	City	State	Zip Code
6043 S Madera AVE	Kerman	CA	93630

C. OWNERS

DeGroot, Charles Peter

Legal owner name: DeGroot, Charles Peter

Telephone no.: (559) 233-3596 (Landline) (Cellular)

Mailing Address Number and Street	City	State	Zip Code
6939 W Lincoln AVE	Fresno	CA	93706

This owner is responsible for paying permit fees.

DeGroot, Jonathon Cornelis

Legal owner name: DeGroot, Jonathon Cornelis

Telephone no.: (559) 352-6340 (Cellular)

Mailing Address Number and Street	City	State	Zip Code
6043 S Madera AVE	Kerman	CA	93630

DeGroot, Peter John

Legal owner name: DeGroot, Peter John

Telephone no.: (559) 237-0162 (Landline) (559) 647-5500 (Cellular)

Mailing Address Number and Street	City	State	Zip Code
5230 W Jefferson AVE	Fresno	CA	93706

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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	174	401	835	1,178	487	0
Number under roof	2,615	0	0	0	0	0
Maximum number	2,790	405	835	1,180	490	0
Average number	2,789	401	835	1,178	487	0
Avg live weight (lbs)	1,400	1,450	1,100	775		

Predominant milk cow breed: Holstein

Average milk production: 82 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 103,487.96 *tons per reporting period*

Total nitrogen from manure: 1,275,832.31 *lbs per reporting period*

After ammonia losses (30% loss applied): 893,082.62 *lbs per reporting period*

Total phosphorus from manure: 211,544.85 *lbs per reporting period*

Total potassium from manure: 556,107.71 *lbs per reporting period*

Total salt from manure: 1,405,410.60 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 54,748,750 *gallons*

Total nitrogen generated: 247,313.91 *lbs*

Total phosphorus generated: 18,563.57 *lbs*

Total potassium generated: 256,867.01 *lbs*

Total salt generated: 2,669,340.10 *lbs*

	54,748,750	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	54,748,750	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
FW-1	Ground water
FW-11	Ground water
FW-12	Ground water
FW-13	Ground water
FW-14	Ground water

Source Description	Type
FW-15	Ground water
FW-16	Ground water
FW-17	Ground water
FW-18	Ground water
FW-19	Ground water
FW-2	Ground water
FW-20	Ground water
FW-21	Ground water
FW-22	Ground water
FW-23	Ground water
FW-24	Ground water
FW-25	Ground water
FW-26	Ground water
FW-27	Ground water
FW-28	Ground water
FW-29	Ground water
FW-3	Ground water
FW-35	Ground water
FW-4	Ground water
FW-5	Ground water
FW-6	Ground water
FW-8	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
16A1	23	23	2	both	X035-X320-X011-XXXX
16A2	47	47	3	both	X035-X320-X011-XXXX
16B	53	53	2	both	X035-X320-X011-XXXX
16C	78	78	2	both	X035-X320-X011-XXXX
16D	78	78	2	both	X035-X320-X011-XXXX
16E	78	78	1	none	X035-X320-X008-XXXX
16F	78	78	2	both	X035-X320-X008-XXXX
16G	77	77	1	none	X035-X320-X06S-XXXX
3B	5	5	1	none	X035-X310-X028-XXXX
3E	78	78	2	manure	X035-X310-X028-XXXX
3F	78	78	2	manure	X035-X310-X028-XXXX
3G	50	50	1	none	X035-X310-X028-XXXX
3H	78	78	2	manure	X035-X310-X028-XXXX
4E	78	78	2	both	X035-X040-X011-XXXX
4F	78	78	2	both	X035-X040-X011-XXXX
9A	73	73	2	process wastewater	X035-X040-X012-XXXX
9B	10	10	1	none	X035-X040-X012-XXXX
9C	73	73	1	none	X035-X040-X012-XXXX
9D	71	71	1	process wastewater	X035-X040-X012-XXXX
9E	80	80	1	none	X035-X040-X012-XXXX
9F	80	80	2	process wastewater	X035-X040-X012-XXXX
9G	19	19	1	none	X035-X040-X012-XXXX
9H	78	78	2	process wastewater	X035-X040-X012-XXXX
Totals for areas that were used for application	1,049	1,049	30		
Totals for areas that were not used for application	392	392	8		
Land application area totals	1,441	1,441	38		

B. CROPS AND HARVESTS

16A1

Field name: 16A1

16A1

11/16/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 23 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	335.23 *ton*	As-is		59.2	8,500.00	1,300.00	9,800.00		8.64

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	14.58	247.78	37.90	285.67	1,027.59

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 23 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	580.00 *ton*	As-is		69.3	6,000.00	900.00	6,000.00		5.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	25.22	302.61	45.39	302.61	877.91

16A2

Field name: 16A2

11/16/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 17 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	247.78 *ton*	As-is		59.2	8,500.00	1,300.00	9,800.00		8.64

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	14.58	247.78	37.90	285.68	1,027.59

16A2

11/16/2022: Oats, hay

Crop: Oats, hay Acres planted: 30 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	120.00 *ton*	As-is		33.6	23,500.00	3,000.00	15,400.00		8.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	0.00
Total actual harvest content	4.00	188.00	24.00	123.20	453.64

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 47 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	1,075.00 *ton*	As-is		69.3	6,000.00	900.00	6,000.00		5.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	22.87	274.47	41.17	274.47	796.27

16B

Field name: 16B

10/21/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 53 Plant date: 10/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,015.00 *ton*	As-is		62.8	8,900.00	1,300.00	9,100.00		9.26

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	19.15	340.89	49.79	348.55	1,319.39

16B

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 53 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	1,241.00 *ton*	As-is		58.3	7,900.00	1,200.00	6,300.00		5.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	23.42	369.96	56.20	295.03	1,083.81

16C

Field name: 16C

11/15/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,191.00 *ton*	As-is		64.7	11,200.00	1,200.00	9,300.00		8.53

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	15.27	342.03	36.65	284.01	919.54

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/11/2023	1,864.00 *ton*	As-is		71.7	5,900.00	700.00	5,200.00		6.25

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	23.90	281.99	33.46	248.53	845.37

16D

Field name: 16D

10/25/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,239.00 *ton*	As-is		63.7	12,400.00	1,400.00	10,700.00		9.38

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	15.88	393.94	44.48	339.93	1,081.72

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	2,014.00 *ton*	As-is		66.6	6,600.00	600.00	6,300.00		5.02

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	25.82	340.83	30.98	325.34	865.85

16E

Field name: 16E

11/01/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 78 Plant date: 11/01/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	686.95 *ton*	As-is		10.0	27,400.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.81	482.63	47.56	369.90	0.00

16F

Field name: 16F

10/26/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 10/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,412.00 *ton*	As-is		64.8	8,300.00	1,200.00	7,900.00		8.43

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	18.10	300.50	43.45	286.02	1,074.34

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	1,999.00 *ton*	As-is		60.0	4,200.00	1,000.00	6,800.00		6.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	25.63	215.28	51.26	348.54	1,369.57

16G

Field name: 16G

02/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 77 Plant date: 02/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	759.64 *ton*	As-is		10.0	29,500.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	9.87	582.06	53.27	414.35	0.00

3B

Field name: 3B

11/01/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 5 Plant date: 11/01/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	32.60 *ton*	As-is		10.0	29,600.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	6.52	385.98	35.21	273.84	0.00

3E

Field name: 3E

11/17/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,554.70 *ton*	As-is		54.2	5,600.00	900.00	5,900.00		7.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	19.93	223.24	35.88	235.20	1,385.76

06/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/28/2023	1,817.00 *ton*	As-is		64.0	7,100.00	600.00	5,400.00		6.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	23.29	330.79	27.95	251.58	1,096.91

3F

Field name: 3F

11/28/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,554.70 *ton*	As-is		55.6	6,600.00	1,000.00	6,500.00		6.96

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	19.93	263.10	39.86	259.12	1,231.90

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/28/2023	1,817.00 *ton*	As-is		61.5	7,300.00	800.00	5,000.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	23.29	340.11	37.27	232.95	1,237.66

3G

Field name: 3G

11/01/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 50 Plant date: 11/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	662.43 *ton*	As-is		10.0	28,800.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	13.25	763.12	71.54	556.44	0.00

3H

Field name: 3H

11/24/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,196.00 *ton*	As-is		60.3	6,700.00	800.00	5,700.00		7.74

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	15.33	205.47	24.53	174.80	942.32

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	1,931.00 *ton*	As-is		65.0	6,200.00	700.00	4,100.00		5.19

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	24.76	306.98	34.66	203.00	899.40

4E

Field name: 4E

11/22/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,211.00 *ton*	As-is		57.6	7,700.00	1,200.00	9,700.00		8.18

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	15.53	239.09	37.26	301.20	1,076.96

4E

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	1,876.00 *ton*	As-is		62.2	6,200.00	600.00	5,300.00		6.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	24.05	298.24	28.86	254.94	1,176.43

4F

Field name: 4F

11/23/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,211.00 *ton*	As-is		57.6	7,700.00	1,200.00	9,700.00		8.18

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	15.53	239.09	37.26	301.20	1,076.96

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	1,876.00 *ton*	As-is		66.7	6,200.00	600.00	5,300.00		6.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	24.05	298.24	28.86	254.94	1,036.37

9A

Field name: 9A

10/28/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 73 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,202.00 *ton*	As-is		57.6	11,300.00	1,100.00	7,500.00		8.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	16.47	372.13	36.22	246.99	1,171.49

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	1,899.00 *ton*	As-is		61.1	4,500.00	900.00	5,700.00		7.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	26.01	234.12	46.82	296.56	1,552.31

9B

Field name: 9B

11/01/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 10 Plant date: 11/01/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	68.31 *ton*	As-is		10.0	29,200.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	6.83	398.93	36.89	286.90	0.00

9C

Field name: 9C

11/02/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 73 Plant date: 11/02/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	519.82 *ton*	As-is		10.0	29,400.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.12	418.70	38.45	299.07	0.00

9D

Field name: 9D

11/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 71 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	518.30 *ton*	As-is		10.0	29,300.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.30	427.78	39.42	306.60	0.00

9E

Field name: 9E

9E

02/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 80 Plant date: 02/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	920.43 *ton*	As-is		10.0	28,600.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	11.51	658.11	62.13	483.23	0.00

9F

Field name: 9F

10/20/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 80 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	1,187.00 *ton*	As-is		65.8	10,500.00	1,200.00	8,900.00		9.82

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	14.84	311.59	35.61	264.11	996.62

06/06/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	2,002.00 *ton*	As-is		70.4	6,800.00	800.00	6,600.00		7.03

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	25.03	340.34	40.04	330.33	1,041.48

9G

Field name: 9G

11/01/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 19 Plant date: 11/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/30/2023	151.55 *ton*	As-is		10.0	28,700.00	2,700.00	21,000.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.98	457.84	43.07	335.01	0.00

9H

Field name: 9H

10/19/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 Plant date: 10/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	1,338.00 *ton*	As-is		59.6	7,400.00	1,600.00	9,100.00		9.17

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	180.00	30.60	277.20	0.00
Total actual harvest content	17.15	253.88	54.89	312.20	1,270.99

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,947.00 *ton*	As-is		71.1	6,900.00	900.00	6,700.00		8.12

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	244.40	0.00
Total actual harvest content	24.96	344.47	44.93	334.48	1,171.53

NUTRIENT BUDGET

A. LAND APPLICATIONS

16A1 - 11/16/2022: Triticale, soft dough

Field name: 16A1

Crop: Triticale, soft dough — Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/05/2022	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
FW-15	Ground water	12.94	0.00	0.00	436.79	2,315,088.00 *gal*
Application event totals		12.94	0.00	0.00	436.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/13/2023	Surface (irrigation)	No precipitation	Light rain	Light rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	10.78	0.00	0.00	363.99	1,929,240.00 *gal*
Application event totals		10.78	0.00	0.00	363.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	229.40	18.95	194.91	2,011.41	1,145,400.00 *gal*
FW-15	Ground water	10.06	0.00	0.00	339.72	1,800,624.00 *gal*
Application event totals		239.46	18.95	194.91	2,351.13	

16A1 - 06/16/2023: Corn, silage

Field name: 16A1

Crop: Corn, silage — Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	276.08	81.10	359.89	0.00	667.00 *ton*
Application event totals		276.08	81.10	359.89	0.00	

16A1 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	20.62	0.00	0.00	696.33	3,690,720.00 *gal*
Application event totals		20.62	0.00	0.00	696.33	

07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	18.28	0.00	0.00	617.20	3,271,320.00 *gal*
Application event totals		18.28	0.00	0.00	617.20	

07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	16.87	0.00	0.00	569.72	3,019,680.00 *gal*
Application event totals		16.87	0.00	0.00	569.72	

08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	17.81	0.00	0.00	601.37	3,187,440.00 *gal*
Application event totals		17.81	0.00	0.00	601.37	

08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	16.87	0.00	0.00	569.72	3,019,680.00 *gal*
Application event totals		16.87	0.00	0.00	569.72	

09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	15.00	0.00	0.00	506.42	2,684,160.00 *gal*
Application event totals		15.00	0.00	0.00	506.42	

16A2 - 11/16/2022: Triticale, soft dough

16A2 - 11/16/2022: Triticale, soft dough

Field name: 16A2

Crop: Triticale, soft dough

Plant date: 11/16/2022

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
FW-15	Ground water	11.01	0.00	0.00	371.73	1,456,300.00 *gal*
Application event totals		11.01	0.00	0.00	371.73	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/10/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	8.26	0.00	0.00	278.80	1,092,225.00 *gal*
Application event totals		8.26	0.00	0.00	278.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	225.95	18.67	191.97	1,981.12	833,850.00 *gal*
FW-15	Ground water	11.01	0.00	0.00	371.73	1,456,300.00 *gal*
Application event totals		236.95	18.67	191.97	2,352.85	

16A2 - 11/16/2022: Oats, hay

Field name: 16A2

Crop: Oats, hay

Plant date: 11/16/2022

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
FW-15	Ground water	11.01	0.00	0.00	371.73	2,569,940.00 *gal*
Application event totals		11.01	0.00	0.00	371.73	

16A2 - 11/16/2022: Oats, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/10/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	8.26	0.00	0.00	278.80	1,927,455.00 *gal*
Application event totals		8.26	0.00	0.00	278.80	

04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	225.95	18.67	191.97	1,981.12	1,471,500.00 *gal*
FW-15	Ground water	11.01	0.00	0.00	371.73	2,569,940.00 *gal*
Application event totals		236.95	18.67	191.97	2,352.85	

16A2 - 06/13/2023: Corn, silage

Field name: 16A2

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	276.28	81.16	360.15	0.00	1,364.00 *ton*
Application event totals		276.28	81.16	360.15	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
FW-15	Ground water	16.51	0.00	0.00	557.60	6,039,360.00 *gal*
Application event totals		16.51	0.00	0.00	557.60	

07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	16.51	0.00	0.00	557.60	6,039,360.00 *gal*
Application event totals		16.51	0.00	0.00	557.60	

16A2 - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	19.27	0.00	0.00	650.53	7,045,920.00 *gal*
Application event totals		19.27	0.00	0.00	650.53	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	19.27	0.00	0.00	650.53	7,045,920.00 *gal*
Application event totals		19.27	0.00	0.00	650.53	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	16.51	0.00	0.00	557.60	6,039,360.00 *gal*
Application event totals		16.51	0.00	0.00	557.60	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-15	Ground water	13.76	0.00	0.00	464.67	5,032,800.00 *gal*
Application event totals		13.76	0.00	0.00	464.67	

16B - 10/21/2022: Triticale, soft dough

Field name: 16B

Crop: Triticale, soft dough

Plant date: 10/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/30/2022	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
FW-35	Ground water	21.26	0.00	0.00	708.56	8,182,080.00 *gal*
Application event totals		21.26	0.00	0.00	708.56	

16B - 10/21/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	240.93	19.90	204.70	2,112.46	2,772,000.00 *gal*
FW-35	Ground water	14.17	0.00	0.00	472.37	5,454,720.00 *gal*
Application event totals		255.10	19.90	204.70	2,584.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/07/2023	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
FW-35	Ground water	14.17	0.00	0.00	472.37	5,454,720.00 *gal*
Application event totals		14.17	0.00	0.00	472.37	

16B - 06/10/2023: Corn, silage

Field name: 16B

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	276.26	81.15	360.12	0.00	1,538.00 *ton*
Application event totals		276.26	81.15	360.12	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	16.53	0.00	0.00	551.10	6,363,840.00 *gal*
Application event totals		16.53	0.00	0.00	551.10	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	16.53	0.00	0.00	551.10	6,363,840.00 *gal*
Application event totals		16.53	0.00	0.00	551.10	

16B - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	21.26	0.00	0.00	708.56	8,182,080.00 *gal*
Application event totals		21.26	0.00	0.00	708.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	16.53	0.00	0.00	551.10	6,363,840.00 *gal*
Application event totals		16.53	0.00	0.00	551.10	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	21.26	0.00	0.00	708.56	8,182,080.00 *gal*
Application event totals		21.26	0.00	0.00	708.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	14.17	0.00	0.00	472.37	5,454,720.00 *gal*
Application event totals		14.17	0.00	0.00	472.37	

16C - 11/15/2022: Triticale, soft dough

Field name: 16C

Crop: Triticale, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/29/2022	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
FW-20	Ground water	17.60	0.00	0.00	640.82	10,152,000.00 *gal*
Application event totals		17.60	0.00	0.00	640.82	

16C - 11/15/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	218.52	23.11	238.49	2,122.35	3,456,000.00 *gal*
FW-20	Ground water	8.80	0.00	0.00	320.41	5,076,000.00 *gal*
Application event totals		227.32	23.11	238.49	2,442.76	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/05/2023	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
FW-20	Ground water	14.08	0.00	0.00	512.66	8,121,600.00 *gal*
Application event totals		14.08	0.00	0.00	512.66	

16C - 06/08/2023: Corn, silage

Field name: 16C

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	274.49	80.63	357.82	0.00	2,249.00 *ton*
Application event totals		274.49	80.63	357.82	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	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
FW-20	Ground water	17.60	0.00	0.00	640.82	10,152,000.00 *gal*
Application event totals		17.60	0.00	0.00	640.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	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
FW-20	Ground water	19.35	0.00	0.00	704.90	11,167,200.00 *gal*
Application event totals		19.35	0.00	0.00	704.90	

16C - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-20	Ground water	17.60	0.00	0.00	640.82	10,152,000.00 *gal*
Application event totals		17.60	0.00	0.00	640.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-20	Ground water	17.60	0.00	0.00	640.82	10,152,000.00 *gal*
Application event totals		17.60	0.00	0.00	640.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-20	Ground water	15.84	0.00	0.00	576.74	9,136,800.00 *gal*
Application event totals		15.84	0.00	0.00	576.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-20	Ground water	15.84	0.00	0.00	576.74	9,136,800.00 *gal*
Application event totals		15.84	0.00	0.00	576.74	

16D - 10/25/2022: Triticale, soft dough

Field name: 16D

Crop: Triticale, soft dough

Plant date: 10/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/02/2022	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-20	Ground water	18.19	0.00	0.00	662.63	10,497,600.00 *gal*
Application event totals		18.19	0.00	0.00	662.63	

16D - 10/25/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/03/2023	Surface (irrigation)	No precipitation	Light rain	Light rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	280.64	23.18	238.44	2,460.67	4,752,000.00 *gal*
FW-20	Ground water	10.11	0.00	0.00	368.13	5,832,000.00 *gal*
Application event totals		290.75	23.18	238.44	2,828.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-20	Ground water	16.17	0.00	0.00	589.01	9,331,200.00 *gal*
Application event totals		16.17	0.00	0.00	589.01	

16D - 06/14/2023: Corn, silage

Field name: 16D

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	274.49	80.63	357.82	0.00	2,249.00 *ton*
Application event totals		274.49	80.63	357.82	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-21	Ground water	14.60	0.00	0.00	741.25	10,497,600.00 *gal*
Application event totals		14.60	0.00	0.00	741.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	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
FW-21	Ground water	16.22	0.00	0.00	823.61	11,664,000.00 *gal*
Application event totals		16.22	0.00	0.00	823.61	

16D - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-21	Ground water	16.22	0.00	0.00	823.61	11,664,000.00 *gal*
Application event totals		16.22	0.00	0.00	823.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-21	Ground water	16.22	0.00	0.00	823.61	11,664,000.00 *gal*
Application event totals		16.22	0.00	0.00	823.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-21	Ground water	12.98	0.00	0.00	658.89	9,331,200.00 *gal*
Application event totals		12.98	0.00	0.00	658.89	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-21	Ground water	14.60	0.00	0.00	741.25	10,497,600.00 *gal*
Application event totals		14.60	0.00	0.00	741.25	

16E - 11/01/2019: Alfalfa, hay

Field name: 16E

Crop: Alfalfa, hay

Plant date: 11/01/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/01/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	14.44	0.00	0.00	481.46	8,182,080.00 *gal*
Application event totals		14.44	0.00	0.00	481.46	

16E - 11/01/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/04/2023	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
FW-35	Ground water	14.44	0.00	0.00	481.46	8,182,080.00 *gal*
Application event totals		14.44	0.00	0.00	481.46	

05/05/2023	Surface (irrigation)	Light rain	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	19.26	0.00	0.00	641.94	10,909,440.00 *gal*
Application event totals		19.26	0.00	0.00	641.94	

06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	19.26	0.00	0.00	641.94	10,909,440.00 *gal*
Application event totals		19.26	0.00	0.00	641.94	

07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	24.07	0.00	0.00	802.43	13,636,800.00 *gal*
Application event totals		24.07	0.00	0.00	802.43	

08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	19.26	0.00	0.00	641.94	10,909,440.00 *gal*
Application event totals		19.26	0.00	0.00	641.94	

09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	14.44	0.00	0.00	481.46	8,182,080.00 *gal*
Application event totals		14.44	0.00	0.00	481.46	

16F - 10/26/2022: Triticale, soft dough

16F - 10/26/2022: Triticale, soft dough

Field name: 16F

Crop: Triticale, soft dough

Plant date: 10/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/19/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	263.52	72.60	268.89	6,964.34	1,118.00 *ton*
Application event totals		263.52	72.60	268.89	6,964.34	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/30/2022	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
FW-35	Ground water	14.44	0.00	0.00	481.46	8,182,080.00 *gal*
Application event totals		14.44	0.00	0.00	481.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/10/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	14.44	0.00	0.00	481.46	8,182,080.00 *gal*
Application event totals		14.44	0.00	0.00	481.46	

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
FW-35	Ground water	17.65	0.00	0.00	588.45	10,000,320.00 *gal*
Application event totals		17.65	0.00	0.00	588.45	

16F - 06/13/2023: Corn, silage

Field name: 16F

Crop: Corn, silage

Plant date: 06/13/2023

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

16F - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-35	Ground water	21.67	0.00	0.00	722.19	12,273,120.00 *gal*
Application event totals		21.67	0.00	0.00	722.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-35	Ground water	19.26	0.00	0.00	641.94	10,909,440.00 *gal*
Application event totals		19.26	0.00	0.00	641.94	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	19.26	0.00	0.00	641.94	10,909,440.00 *gal*
Application event totals		19.26	0.00	0.00	641.94	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	14.44	0.00	0.00	481.46	8,182,080.00 *gal*
Application event totals		14.44	0.00	0.00	481.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	167.10	9.52	187.43	1,823.47	3,168,000.00 *gal*
FW-35	Ground water	19.26	0.00	0.00	641.94	10,909,440.00 *gal*
Application event totals		186.35	9.52	187.43	2,465.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-35	Ground water	14.44	0.00	0.00	481.46	8,182,080.00 *gal*
Application event totals		14.44	0.00	0.00	481.46	

16G - 02/01/2022: Alfalfa, hay

Field name: 16G

Crop: Alfalfa, hay

Plant date: 02/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/05/2023	Surface (irrigation)	No precipitation	Steady rain	Light rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-19	Ground water	22.37	0.00	0.00	737.59	10,977,120.00 *gal*
Application event totals		22.37	0.00	0.00	737.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/05/2023	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
FW-19	Ground water	16.94	0.00	0.00	558.78	8,316,000.00 *gal*
Application event totals		16.94	0.00	0.00	558.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-19	Ground water	18.64	0.00	0.00	614.66	9,147,600.00 *gal*
Application event totals		18.64	0.00	0.00	614.66	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-19	Ground water	23.38	0.00	0.00	771.12	11,476,080.00 *gal*
Application event totals		23.38	0.00	0.00	771.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-19	Ground water	22.37	0.00	0.00	737.59	10,977,120.00 *gal*
Application event totals		22.37	0.00	0.00	737.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-19	Ground water	21.01	0.00	0.00	692.89	10,311,840.00 *gal*
Application event totals		21.01	0.00	0.00	692.89	

16G - 02/01/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-19	Ground water	21.69	0.00	0.00	715.24	10,644,480.00 *gal*
Application event totals		21.69	0.00	0.00	715.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/12/2023	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
FW-19	Ground water	20.33	0.00	0.00	670.54	9,979,200.00 *gal*
Application event totals		20.33	0.00	0.00	670.54	

3B - 11/01/2019: Alfalfa, hay

Field name: 3B

Crop: Alfalfa, hay

Plant date: 11/01/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/05/2023	Surface (irrigation)	No precipitation	Light rain	Light rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	9.27	0.00	0.00	401.24	534,240.00 *gal*
Application event totals		9.27	0.00	0.00	401.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/10/2023	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
FW-8	Ground water	9.27	0.00	0.00	401.24	534,240.00 *gal*
Application event totals		9.27	0.00	0.00	401.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-8	Ground water	10.60	0.00	0.00	458.56	610,560.00 *gal*
Application event totals		10.60	0.00	0.00	458.56	

3B - 11/01/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-8	Ground water	12.36	0.00	0.00	534.99	712,320.00 *gal*
Application event totals		12.36	0.00	0.00	534.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	12.36	0.00	0.00	534.99	712,320.00 *gal*
Application event totals		12.36	0.00	0.00	534.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	10.60	0.00	0.00	458.56	610,560.00 *gal*
Application event totals		10.60	0.00	0.00	458.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	9.27	0.00	0.00	401.24	534,240.00 *gal*
Application event totals		9.27	0.00	0.00	401.24	

3E - 11/17/2022: Triticale, soft dough

Field name: 3E

Crop: Triticale, soft dough

Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/21/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	263.52	72.60	268.89	6,964.34	1,118.00 *ton*
Application event totals		263.52	72.60	268.89	6,964.34	

3E - 11/17/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	7.98	0.00	0.00	395.07	7,385,280.00 *gal*
Application event totals		7.98	0.00	0.00	395.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/18/2023	Surface (irrigation)	No precipitation	Light rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	7.00	0.00	0.00	346.69	6,480,960.00 *gal*
Application event totals		7.00	0.00	0.00	346.69	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	8.79	0.00	0.00	435.38	8,138,880.00 *gal*
Application event totals		8.79	0.00	0.00	435.38	

3E - 06/27/2023: Corn, silage

Field name: 3E

Crop: Corn, silage

Plant date: 06/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	274.49	80.63	357.82	0.00	2,249.00 *ton*
Application event totals		274.49	80.63	357.82	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	11.07	0.00	0.00	548.25	10,248,960.00 *gal*
Application event totals		11.07	0.00	0.00	548.25	

3E - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	12.05	0.00	0.00	596.63	11,153,280.00 *gal*
Application event totals		12.05	0.00	0.00	596.63	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	12.05	0.00	0.00	596.63	11,153,280.00 *gal*
Application event totals		12.05	0.00	0.00	596.63	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	13.03	0.00	0.00	645.00	12,057,600.00 *gal*
Application event totals		13.03	0.00	0.00	645.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-2	Ground water	11.07	0.00	0.00	548.25	10,248,960.00 *gal*
Application event totals		11.07	0.00	0.00	548.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	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
FW-2	Ground water	12.05	0.00	0.00	596.63	11,153,280.00 *gal*
Application event totals		12.05	0.00	0.00	596.63	

3F - 11/28/2022: Triticale, soft dough

Field name: 3F

Crop: Triticale, soft dough

Plant date: 11/28/2022

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

3F - 11/28/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/21/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	263.52	72.60	268.89	6,964.34	1,118.00 *ton*
Application event totals		263.52	72.60	268.89	6,964.34	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/26/2023	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
FW-3	Ground water	9.24	0.00	0.00	417.72	8,307,306.00 *gal*
Application event totals		9.24	0.00	0.00	417.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/21/2023	Surface (irrigation)	Light rain	Light rain	Light rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-3	Ground water	8.39	0.00	0.00	379.05	7,538,160.00 *gal*
Application event totals		8.39	0.00	0.00	379.05	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/05/2023	Surface (irrigation)	Light rain	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-3	Ground water	10.27	0.00	0.00	464.14	9,230,400.00 *gal*
Application event totals		10.27	0.00	0.00	464.14	

3F - 06/26/2023: Corn, silage

Field name: 3F

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	274.49	80.63	357.82	0.00	2,249.00 *ton*
Application event totals		274.49	80.63	357.82	0.00	

3F - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-3	Ground water	10.27	0.00	0.00	464.14	9,230,400.00 *gal*
Application event totals		10.27	0.00	0.00	464.14	

07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-3	Ground water	11.81	0.00	0.00	533.76	10,614,960.00 *gal*
Application event totals		11.81	0.00	0.00	533.76	

08/01/2023	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
FW-3	Ground water	11.30	0.00	0.00	510.56	10,153,440.00 *gal*
Application event totals		11.30	0.00	0.00	510.56	

08/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-3	Ground water	11.81	0.00	0.00	533.76	10,614,960.00 *gal*
Application event totals		11.81	0.00	0.00	533.76	

09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-3	Ground water	10.96	0.00	0.00	495.08	9,845,760.00 *gal*
Application event totals		10.96	0.00	0.00	495.08	

09/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-3	Ground water	10.27	0.00	0.00	464.14	9,230,400.00 *gal*
Application event totals		10.27	0.00	0.00	464.14	

3G - 11/01/2020: Alfalfa, hay

3G - 11/01/2020: Alfalfa, hay

Field name: 3G

Crop: Alfalfa, hay

Plant date: 11/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/05/2023	Surface (irrigation)	No precipitation	Light rain	Steady rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	17.31	0.00	0.00	748.98	9,972,480.00 *gal*
Application event totals		17.31	0.00	0.00	748.98	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/10/2023	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
FW-8	Ground water	17.31	0.00	0.00	748.98	9,972,480.00 *gal*
Application event totals		17.31	0.00	0.00	748.98	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-8	Ground water	21.20	0.00	0.00	917.12	12,211,200.00 *gal*
Application event totals		21.20	0.00	0.00	917.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-8	Ground water	19.43	0.00	0.00	840.70	11,193,600.00 *gal*
Application event totals		19.43	0.00	0.00	840.70	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	21.20	0.00	0.00	917.12	12,211,200.00 *gal*
Application event totals		21.20	0.00	0.00	917.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	22.61	0.00	0.00	978.26	13,025,280.00 *gal*
Application event totals		22.61	0.00	0.00	978.26	

3G - 11/01/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	19.43	0.00	0.00	840.70	11,193,600.00 *gal*
Application event totals		19.43	0.00	0.00	840.70	

3H - 11/24/2022: Triticale, soft dough

Field name: 3H

Crop: Triticale, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/20/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	263.52	72.60	268.89	6,964.34	1,118.00 *ton*
Application event totals		263.52	72.60	268.89	6,964.34	

02/02/2023	Surface (irrigation)	No precipitation	Light rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	9.06	0.00	0.00	391.93	8,140,800.00 *gal*
Application event totals		9.06	0.00	0.00	391.93	

03/23/2023	Surface (irrigation)	Light rain	Light rain	Light rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	9.06	0.00	0.00	391.93	8,140,800.00 *gal*
Application event totals		9.06	0.00	0.00	391.93	

3H - 06/22/2023: Corn, silage

Field name: 3H

Crop: Corn, silage

Plant date: 06/22/2023

3H - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	274.49	80.63	357.82	0.00	2,249.00 *ton*
Application event totals		274.49	80.63	357.82	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/01/2023	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
FW-8	Ground water	11.10	0.00	0.00	480.12	9,972,480.00 *gal*
Application event totals		11.10	0.00	0.00	480.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	12.45	0.00	0.00	538.91	11,193,600.00 *gal*
Application event totals		12.45	0.00	0.00	538.91	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	1.33	0.00	0.00	57.46	1,193,600.00 *gal*
Application event totals		1.33	0.00	0.00	57.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	11.10	0.00	0.00	480.12	9,972,480.00 *gal*
Application event totals		11.10	0.00	0.00	480.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-8	Ground water	10.64	0.00	0.00	460.52	9,565,440.00 *gal*
Application event totals		10.64	0.00	0.00	460.52	

3H - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/23/2023	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
FW-8	Ground water	11.10	0.00	0.00	480.12	9,972,480.00 *gal*
Application event totals		11.10	0.00	0.00	480.12	

4E - 11/22/2022: Triticale, soft dough

Field name: 4E

Crop: Triticale, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/20/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	263.52	72.60	268.89	6,964.34	1,118.00 *ton*
Application event totals		263.52	72.60	268.89	6,964.34	

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
FW-12	Ground water	6.95	0.00	0.00	343.23	8,442,480.00 *gal*
Application event totals		6.95	0.00	0.00	343.23	

03/06/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-11	Ground water	7.22	0.00	0.00	328.15	6,134,400.00 *gal*
Application event totals		7.22	0.00	0.00	328.15	

04/12/2023	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
FW-11	Ground water	9.63	0.00	0.00	437.53	8,179,200.00 *gal*
Application event totals		9.63	0.00	0.00	437.53	

4E - 11/22/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/30/2023	Surface (irrigation)	No precipitation	Light rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-11	Ground water	9.63	0.00	0.00	437.53	8,179,200.00 *gal*
Application event totals		9.63	0.00	0.00	437.53	

4E - 06/21/2023: Corn, silage

Field name: 4E

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-11	Ground water	12.63	0.00	0.00	574.26	10,735,200.00 *gal*
Application event totals		12.63	0.00	0.00	574.26	

07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-11	Ground water	12.03	0.00	0.00	546.92	10,224,000.00 *gal*
Application event totals		12.03	0.00	0.00	546.92	

07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	9.35	0.00	0.00	461.59	11,353,680.00 *gal*
Application event totals		9.35	0.00	0.00	461.59	

08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	8.63	0.00	0.00	426.08	10,480,320.00 *gal*
Application event totals		8.63	0.00	0.00	426.08	

4E - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-11	Ground water	12.03	0.00	0.00	546.92	10,224,000.00 *gal*
Application event totals		12.03	0.00	0.00	546.92	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	250.64	14.29	281.15	2,735.21	4,752,000.00 *gal*
FW-12	Ground water	8.63	0.00	0.00	426.08	10,480,320.00 *gal*
Application event totals		259.28	14.29	281.15	3,161.29	

4F - 11/23/2022: Triticale, soft dough

Field name: 4F

Crop: Triticale, soft dough Plant date: 11/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/19/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	263.52	72.60	268.89	6,964.34	1,118.00 *ton*
Application event totals		263.52	72.60	268.89	6,964.34	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2022	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
FW-12	Ground water	7.19	0.00	0.00	355.07	8,733,600.00 *gal*
Application event totals		7.19	0.00	0.00	355.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/01/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-11	Ground water	6.62	0.00	0.00	300.81	5,623,200.00 *gal*
Application event totals		6.62	0.00	0.00	300.81	

4F - 11/23/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/07/2023	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
FW-11	Ground water	6.62	0.00	0.00	300.81	5,623,200.00 *gal*
Application event totals		6.62	0.00	0.00	300.81	

05/06/2023	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
FW-11	Ground water	9.63	0.00	0.00	437.53	8,179,200.00 *gal*
Application event totals		9.63	0.00	0.00	437.53	

4F - 06/20/2023: Corn, silage

Field name: 4F

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
WW Application	Process wastewater	259.29	11.69	277.08	3,416.47	4,752,000.00 *gal*
FW-11	Ground water	10.53	0.00	0.00	478.55	8,946,000.00 *gal*
Application event totals		269.81	11.69	277.08	3,895.02	

07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	10.07	0.00	0.00	497.09	12,227,040.00 *gal*
Application event totals		10.07	0.00	0.00	497.09	

07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	8.63	0.00	0.00	426.08	10,480,320.00 *gal*
Application event totals		8.63	0.00	0.00	426.08	

4F - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/11/2023	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
FW-11	Ground water	9.63	0.00	0.00	437.53	8,179,200.00 *gal*
Application event totals		9.63	0.00	0.00	437.53	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	10.07	0.00	0.00	497.09	12,227,040.00 *gal*
Application event totals		10.07	0.00	0.00	497.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	8.63	0.00	0.00	426.08	10,480,320.00 *gal*
Application event totals		8.63	0.00	0.00	426.08	

9A - 10/28/2022: Triticale, soft dough

Field name: 9A

Crop: Triticale, soft dough

Plant date: 10/28/2022

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
WW Application	Process wastewater	214.03	22.63	233.59	2,078.74	3,168,000.00 *gal*
FW-12	Ground water	9.23	0.00	0.00	455.26	10,480,320.00 *gal*
Application event totals		223.26	22.63	233.59	2,534.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/28/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	6.15	0.00	0.00	303.51	6,986,880.00 *gal*
Application event totals		6.15	0.00	0.00	303.51	

9A - 10/28/2022: Triticale, soft dough

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
FW-12	Ground water	7.69	0.00	0.00	379.39	8,733,600.00 *gal*
Application event totals		7.69	0.00	0.00	379.39	

9A - 06/07/2023: Corn, silage

Field name: 9A

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	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
WW Application	Process wastewater	260.14	11.73	277.99	3,427.70	4,462,000.00 *gal*
FW-12	Ground water	8.46	0.00	0.00	417.32	9,606,960.00 *gal*
Application event totals		268.59	11.73	277.99	3,845.02	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/22/2023	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
FW-12	Ground water	9.23	0.00	0.00	455.26	10,480,320.00 *gal*
Application event totals		9.23	0.00	0.00	455.26	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	10.76	0.00	0.00	531.14	12,227,040.00 *gal*
Application event totals		10.76	0.00	0.00	531.14	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	7.69	0.00	0.00	379.39	8,733,600.00 *gal*
Application event totals		7.69	0.00	0.00	379.39	

9A - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-12	Ground water	9.23	0.00	0.00	455.26	10,480,320.00 *gal*
Application event totals		9.23	0.00	0.00	455.26	

09/12/2023	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
FW-12	Ground water	9.23	0.00	0.00	455.26	10,480,320.00 *gal*
Application event totals		9.23	0.00	0.00	455.26	

9B - 11/01/2019: Alfalfa, hay

Field name: 9B

Crop: Alfalfa, hay

Plant date: 11/01/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/01/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	5.21	0.00	0.00	273.98	820,800.00 *gal*
Application event totals		5.21	0.00	0.00	273.98	

04/06/2023	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
FW-13	Ground water	7.81	0.00	0.00	410.97	1,231,200.00 *gal*
Application event totals		7.81	0.00	0.00	410.97	

05/05/2023	Surface (irrigation)	Light rain	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	7.81	0.00	0.00	410.97	1,231,200.00 *gal*
Application event totals		7.81	0.00	0.00	410.97	

9B - 11/01/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/10/2023	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
FW-13	Ground water	10.41	0.00	0.00	547.97	1,641,600.00 *gal*
Application event totals		10.41	0.00	0.00	547.97	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	10.41	0.00	0.00	547.97	1,641,600.00 *gal*
Application event totals		10.41	0.00	0.00	547.97	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	7.81	0.00	0.00	410.97	1,231,200.00 *gal*
Application event totals		7.81	0.00	0.00	410.97	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	6.51	0.00	0.00	342.48	1,026,000.00 *gal*
Application event totals		6.51	0.00	0.00	342.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	7.81	0.00	0.00	410.97	1,231,200.00 *gal*
Application event totals		7.81	0.00	0.00	410.97	

9C - 11/02/2021: Alfalfa, hay

Field name: 9C

Crop: Alfalfa, hay

Plant date: 11/02/2021

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

9C - 11/02/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/01/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	6.42	0.00	0.00	337.79	7,387,200.00 *gal*
Application event totals		6.42	0.00	0.00	337.79	

04/06/2023	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
FW-13	Ground water	6.42	0.00	0.00	337.79	7,387,200.00 *gal*
Application event totals		6.42	0.00	0.00	337.79	

05/05/2023	Surface (irrigation)	Light rain	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	8.56	0.00	0.00	450.38	9,849,600.00 *gal*
Application event totals		8.56	0.00	0.00	450.38	

06/10/2023	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
FW-13	Ground water	8.56	0.00	0.00	450.38	9,849,600.00 *gal*
Application event totals		8.56	0.00	0.00	450.38	

07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	10.70	0.00	0.00	562.98	12,312,000.00 *gal*
Application event totals		10.70	0.00	0.00	562.98	

08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	8.56	0.00	0.00	450.38	9,849,600.00 *gal*
Application event totals		8.56	0.00	0.00	450.38	

9C - 11/02/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	6.42	0.00	0.00	337.79	7,387,200.00 *gal*
Application event totals		6.42	0.00	0.00	337.79	

10/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	8.56	0.00	0.00	450.38	9,849,600.00 *gal*
Application event totals		8.56	0.00	0.00	450.38	

9D - 11/01/2022: Alfalfa, hay

Field name: 9D

Crop: Alfalfa, hay

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/08/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	180.05	19.04	196.50	1,748.70	2,592,000.00 *gal*
FW-13	Ground water	6.42	0.00	0.00	337.66	7,182,000.00 *gal*
Application event totals		186.46	19.04	196.50	2,086.35	

03/05/2023	Surface (irrigation)	No precipitation	Light rain	Steady rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	6.42	0.00	0.00	337.66	7,182,000.00 *gal*
Application event totals		6.42	0.00	0.00	337.66	

04/10/2023	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
FW-13	Ground water	6.42	0.00	0.00	337.66	7,182,000.00 *gal*
Application event totals		6.42	0.00	0.00	337.66	

9D - 11/01/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	8.43	0.00	0.00	443.78	9,439,200.00 *gal*
Application event totals		8.43	0.00	0.00	443.78	

06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	8.43	0.00	0.00	443.78	9,439,200.00 *gal*
Application event totals		8.43	0.00	0.00	443.78	

07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	11.00	0.00	0.00	578.84	12,312,000.00 *gal*
Application event totals		11.00	0.00	0.00	578.84	

08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-13	Ground water	8.43	0.00	0.00	443.78	9,439,200.00 *gal*
Application event totals		8.43	0.00	0.00	443.78	

09/13/2023	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
FW-13	Ground water	6.42	0.00	0.00	337.66	7,182,000.00 *gal*
Application event totals		6.42	0.00	0.00	337.66	

10/12/2023	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
FW-13	Ground water	8.43	0.00	0.00	443.78	9,439,200.00 *gal*
Application event totals		8.43	0.00	0.00	443.78	

9E - 02/01/2022: Alfalfa, hay

9E - 02/01/2022: Alfalfa, hay

Field name: 9E

Crop: Alfalfa, hay

Plant date: 02/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	10.00	0.00	0.00	516.78	8,121,600.00 *gal*
Application event totals		10.00	0.00	0.00	516.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/01/2023	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
FW-14	Ground water	10.00	0.00	0.00	516.78	8,121,600.00 *gal*
Application event totals		10.00	0.00	0.00	516.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-14	Ground water	13.33	0.00	0.00	689.04	10,828,800.00 *gal*
Application event totals		13.33	0.00	0.00	689.04	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	13.33	0.00	0.00	689.04	10,828,800.00 *gal*
Application event totals		13.33	0.00	0.00	689.04	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	13.33	0.00	0.00	689.04	10,828,800.00 *gal*
Application event totals		13.33	0.00	0.00	689.04	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	13.33	0.00	0.00	689.04	10,828,800.00 *gal*
Application event totals		13.33	0.00	0.00	689.04	

9E - 02/01/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	11.66	0.00	0.00	602.91	9,475,200.00 *gal*
Application event totals		11.66	0.00	0.00	602.91	

10/15/2023	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
FW-14	Ground water	13.33	0.00	0.00	689.04	10,828,800.00 *gal*
Application event totals		13.33	0.00	0.00	689.04	

9F - 10/20/2022: Triticale, soft dough

Field name: 9F

Crop: Triticale, soft dough

Plant date: 10/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/05/2022	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
FW-14	Ground water	13.05	0.00	0.00	674.69	10,603,200.00 *gal*
Application event totals		13.05	0.00	0.00	674.69	

12/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	195.30	20.65	213.15	1,896.85	3,168,000.00 *gal*
Application event totals		195.30	20.65	213.15	1,896.85	

03/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	13.05	0.00	0.00	674.69	10,603,200.00 *gal*
Application event totals		13.05	0.00	0.00	674.69	

9F - 10/20/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	10.27	0.00	0.00	531.14	8,347,200.00 *gal*
Application event totals		10.27	0.00	0.00	531.14	

9F - 06/06/2023: Corn, silage

Field name: 9F

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-14	Ground water	12.50	0.00	0.00	645.98	10,152,000.00 *gal*
Application event totals		12.50	0.00	0.00	645.98	

06/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	13.33	0.00	0.00	689.04	10,828,800.00 *gal*
Application event totals		13.33	0.00	0.00	689.04	

07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	14.16	0.00	0.00	732.11	11,505,600.00 *gal*
Application event totals		14.16	0.00	0.00	732.11	

07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	252.80	11.40	270.15	3,331.06	4,752,000.00 *gal*
FW-14	Ground water	14.16	0.00	0.00	732.11	11,505,600.00 *gal*
Application event totals		266.97	11.40	270.15	4,063.17	

9F - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	12.50	0.00	0.00	645.98	10,152,000.00 *gal*
Application event totals		12.50	0.00	0.00	645.98	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-14	Ground water	13.33	0.00	0.00	689.04	10,828,800.00 *gal*
Application event totals		13.33	0.00	0.00	689.04	

9G - 11/01/2020: Alfalfa, hay

Field name: 9G

Crop: Alfalfa, hay

Plant date: 11/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-22	Ground water	1.35	0.00	0.00	66.48	207,360.00 *gal*
Application event totals		1.35	0.00	0.00	66.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/01/2023	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
FW-22	Ground water	8.97	0.00	0.00	442.31	1,379,520.00 *gal*
Application event totals		8.97	0.00	0.00	442.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-22	Ground water	13.45	0.00	0.00	663.46	2,069,280.00 *gal*
Application event totals		13.45	0.00	0.00	663.46	

9G - 11/01/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-22	Ground water	17.93	0.00	0.00	884.61	2,759,040.00 *gal*
Application event totals		17.93	0.00	0.00	884.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-22	Ground water	17.93	0.00	0.00	884.61	2,759,040.00 *gal*
Application event totals		17.93	0.00	0.00	884.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-22	Ground water	17.93	0.00	0.00	884.61	2,759,040.00 *gal*
Application event totals		17.93	0.00	0.00	884.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-22	Ground water	13.45	0.00	0.00	663.46	2,069,280.00 *gal*
Application event totals		13.45	0.00	0.00	663.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/15/2023	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
FW-22	Ground water	13.45	0.00	0.00	663.46	2,069,280.00 *gal*
Application event totals		13.45	0.00	0.00	663.46	

9H - 10/19/2022: Triticale, soft dough

Field name: 9H

Crop: Triticale, soft dough

Plant date: 10/19/2022

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

9H - 10/19/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/30/2022	Surface (irrigation)	No precipitation	Steady rain	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	300.47	31.78	327.92	2,918.23	4,752,000.00 *gal*
FW-24	Ground water	12.16	0.00	0.00	557.12	8,678,880.00 *gal*
Application event totals		312.63	31.78	327.92	3,475.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/10/2023	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
FW-24	Ground water	10.67	0.00	0.00	488.90	7,616,160.00 *gal*
Application event totals		10.67	0.00	0.00	488.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/12/2023	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
FW-24	Ground water	12.16	0.00	0.00	557.12	8,678,880.00 *gal*
Application event totals		12.16	0.00	0.00	557.12	

9H - 06/05/2023: Corn, silage

Field name: 9H

Crop: Corn, silage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
FW-24	Ground water	14.89	0.00	0.00	682.18	10,627,200.00 *gal*
Application event totals		14.89	0.00	0.00	682.18	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/22/2023	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
FW-24	Ground water	13.40	0.00	0.00	613.97	9,564,480.00 *gal*
Application event totals		13.40	0.00	0.00	613.97	

9H - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
WW Application	Process wastewater	259.29	11.69	277.08	3,416.47	4,752,000.00 *gal*
FW-24	Ground water	14.89	0.00	0.00	682.18	10,627,200.00 *gal*
Application event totals		274.18	11.69	277.08	4,098.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-24	Ground water	14.89	0.00	0.00	682.18	10,627,200.00 *gal*
Application event totals		14.89	0.00	0.00	682.18	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-24	Ground water	14.15	0.00	0.00	648.08	10,095,840.00 *gal*
Application event totals		14.15	0.00	0.00	648.08	

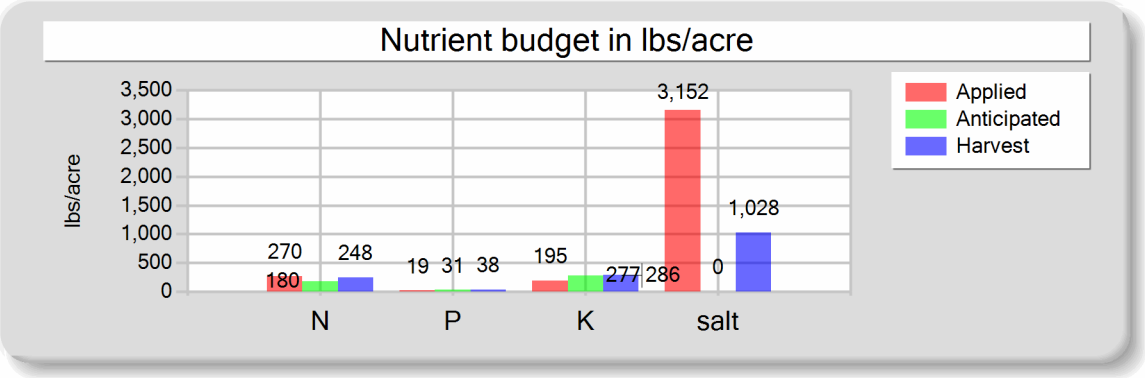
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FW-24	Ground water	13.40	0.00	0.00	613.97	9,564,480.00 *gal*
Application event totals		13.40	0.00	0.00	613.97	

B. NUTRIENT BUDGET

16A1 - 11/16/2022: Triticale, soft dough

Field name: 16A1 Crop: Triticale, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	229.40	18.95	194.91	2,011.41
Fresh water	33.78	0.00	0.00	1,140.50
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.18	18.95	194.91	3,151.91
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	247.78	37.90	285.67	1,027.59
Nutrient balance	22.40	-18.95	-90.77	2,124.32
Applied to removed ratio	1.09	0.50	0.68	3.07

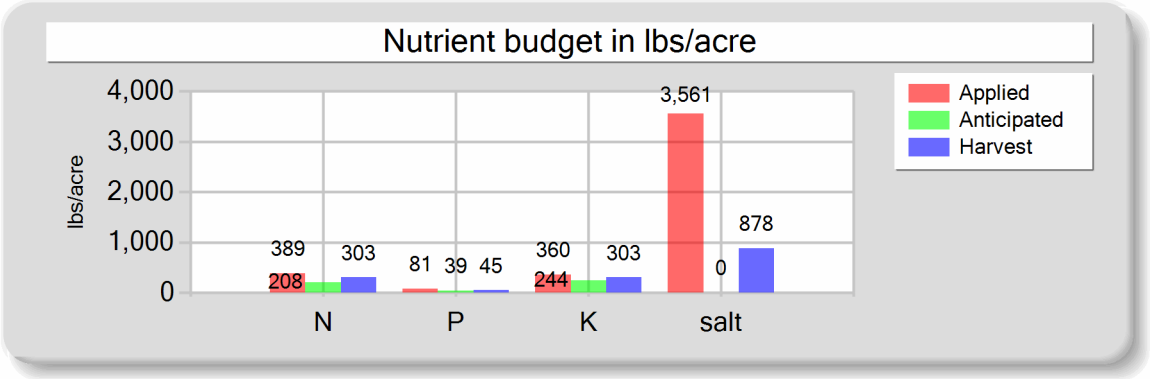
Fresh water applied	
6,044,952.00	*gallons*
222.62	*acre-inches*
9.68	*inches/acre*

Process wastewater applied	
1,145,400.00	*gallons*
42.18	*acre-inches*
1.83	*inches/acre*

Total harvests for the crop	
1	*harvests*

16A1 - 06/16/2023: Corn, silage

Field name: 16A1 Crop: Corn, silage Plant date: 06/16/2023



	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	276.08	81.10	359.89	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	105.45	0.00	0.00	3,560.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	388.53	81.10	359.89	3,560.76
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	302.61	45.39	302.61	877.91
Nutrient balance	85.92	35.71	57.28	2,682.85
Applied to removed ratio	1.28	1.79	1.19	4.06

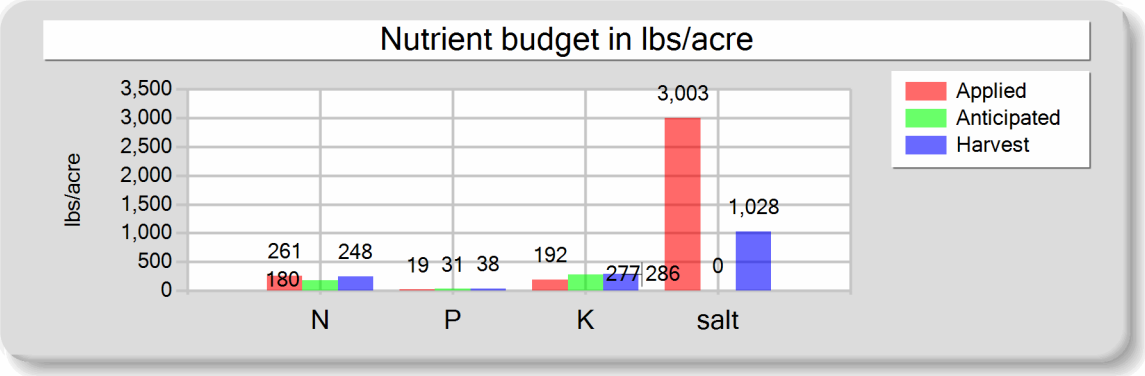
Fresh water applied	
18,873,000.00	*gallons*
695.03	*acre-inches*
30.22	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16A2 - 11/16/2022: Triticale, soft dough

Field name: 16A2 Crop: Triticale, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	225.95	18.67	191.97	1,981.12
Fresh water	30.27	0.00	0.00	1,022.27
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	260.89	18.67	191.97	3,003.39
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	247.78	37.90	285.68	1,027.59
Nutrient balance	13.11	-19.23	-93.70	1,975.79
Applied to removed ratio	1.05	0.49	0.67	2.92

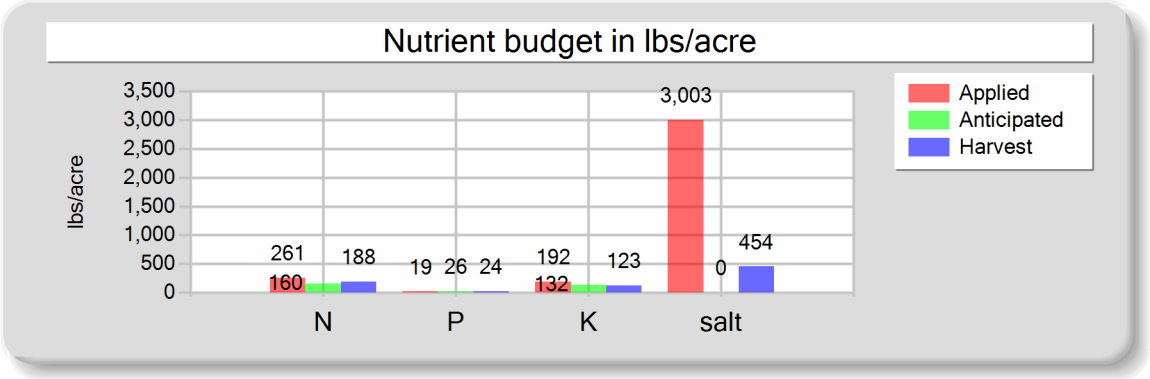
Fresh water applied	
4,004,825.00	*gallons*
147.48	*acre-inches*
8.68	*inches/acre*

Process wastewater applied	
833,850.00	*gallons*
30.71	*acre-inches*
1.81	*inches/acre*

Total harvests for the crop	
1	*harvests*

16A2 - 11/16/2022: Oats, hay

Field name: 16A2 Crop: Oats, hay Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	225.95	18.67	191.97	1,981.12
Fresh water	30.27	0.00	0.00	1,022.27
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	260.89	18.67	191.97	3,003.39
Anticipated crop nutrient removal	160.00	26.00	132.00	0.00
Actual crop nutrient removal	188.00	24.00	123.20	453.64
Nutrient balance	72.89	-5.33	68.77	2,549.74
Applied to removed ratio	1.39	0.78	1.56	6.62

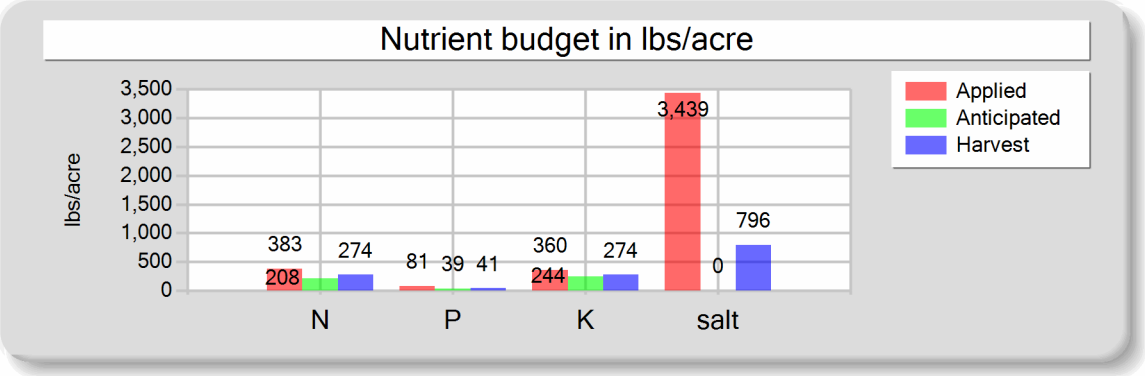
Fresh water applied	
7,067,335.00	*gallons*
260.27	*acre-inches*
8.68	*inches/acre*

Process wastewater applied	
1,471,500.00	*gallons*
54.19	*acre-inches*
1.81	*inches/acre*

Total harvests for the crop	
1	*harvests*

16A2 - 06/13/2023: Corn, silage

Field name: 16A2 Crop: Corn, silage Plant date: 06/13/2023



	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	276.28	81.16	360.15	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	101.83	0.00	0.00	3,438.53
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	382.78	81.16	360.15	3,438.53
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	274.47	41.17	274.47	796.27
Nutrient balance	108.31	39.99	85.69	2,642.26
Applied to removed ratio	1.39	1.97	1.31	4.32

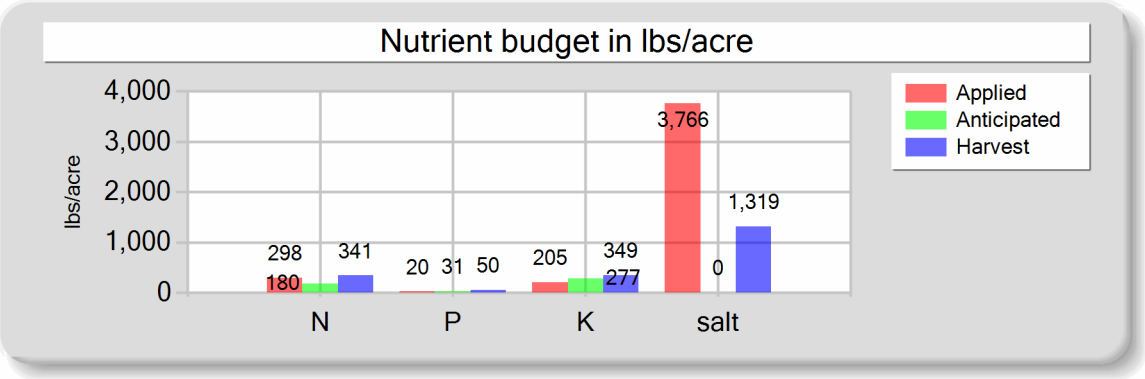
Fresh water applied	
37,242,720.00	*gallons*
1,371.52	*acre-inches*
29.18	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16B - 10/21/2022: Triticale, soft dough

Field name: 16B | Crop: Triticale, soft dough | Plant date: 10/21/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	240.93	19.90	204.70	2,112.46
Fresh water	49.60	0.00	0.00	1,653.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	297.52	19.90	204.70	3,765.77
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	340.89	49.79	348.55	1,319.39
Nutrient balance	-43.36	-29.89	-143.85	2,446.38
Applied to removed ratio	0.87	0.40	0.59	2.85

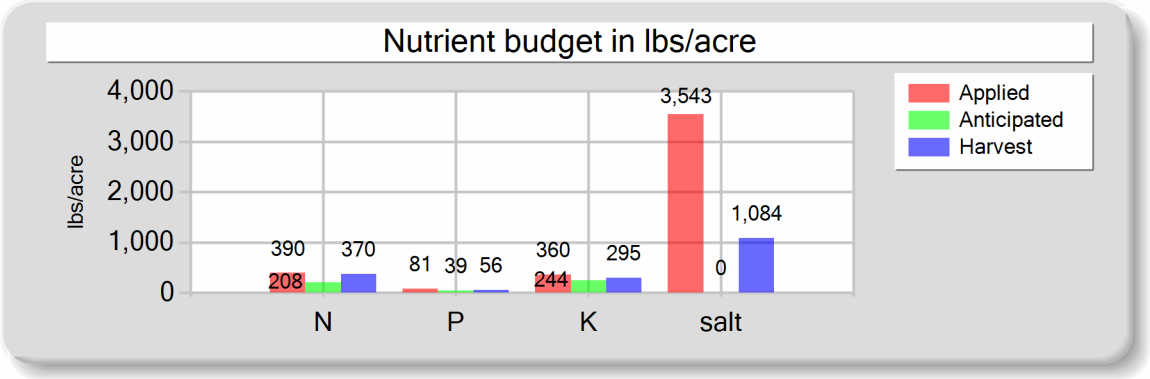
Fresh water applied	
19,091,520.00	*gallons*
703.08	*acre-inches*
13.27	*inches/acre*

Process wastewater applied	
2,772,000.00	*gallons*
102.08	*acre-inches*
1.93	*inches/acre*

Total harvests for the crop	
1	*harvests*

16B - 06/10/2023: Corn, silage

Field name: 16B | Crop: Corn, silage | Plant date: 06/10/2023



	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	276.26	81.15	360.12	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	106.28	0.00	0.00	3,542.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	389.54	81.15	360.12	3,542.80
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	369.96	56.20	295.03	1,083.81
Nutrient balance	19.59	24.96	65.09	2,458.99
Applied to removed ratio	1.05	1.44	1.22	3.27

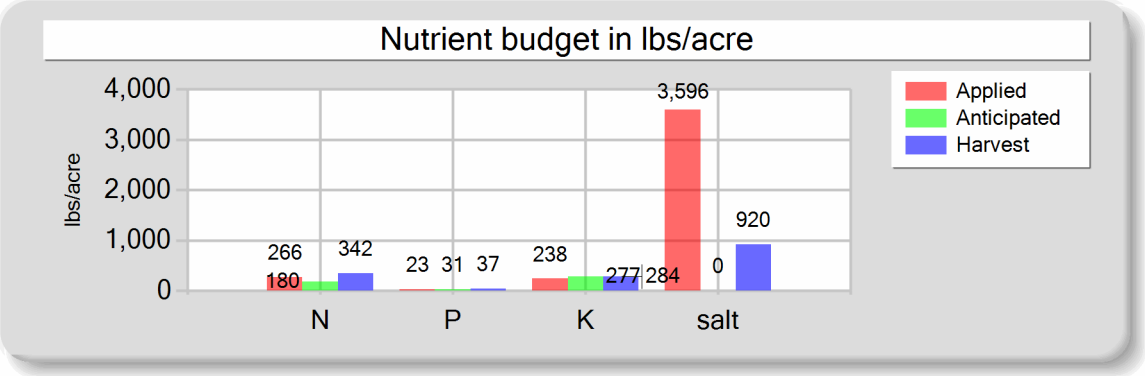
Fresh water applied	
40,910,400.00	*gallons*
1,506.59	*acre-inches*
28.43	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16C - 11/15/2022: Triticale, soft dough

Field name: 16C Crop: Triticale, soft dough Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	218.52	23.11	238.49	2,122.35
Fresh water	40.47	0.00	0.00	1,473.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	265.99	23.11	238.49	3,596.24
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	342.03	36.65	284.01	919.54
Nutrient balance	-76.04	-13.54	-45.52	2,676.69
Applied to removed ratio	0.78	0.63	0.84	3.91

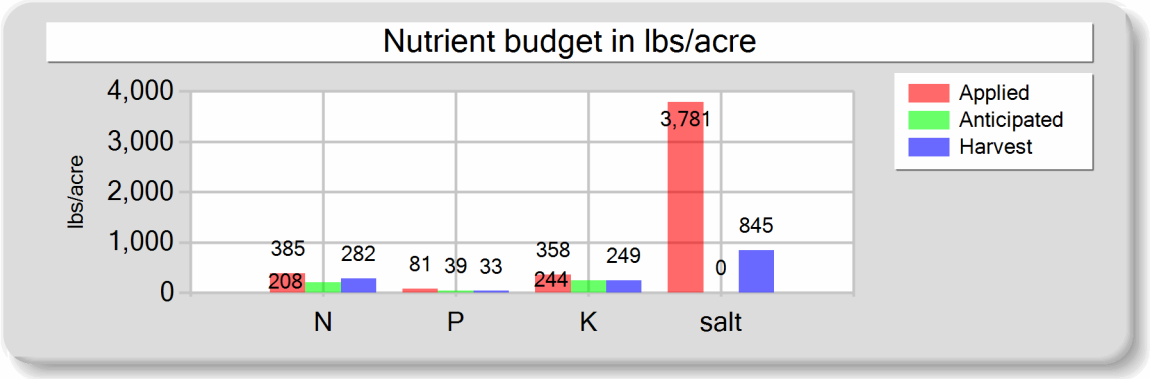
Fresh water applied	
23,349,600.00	*gallons*
859.89	*acre-inches*
11.02	*inches/acre*

Process wastewater applied	
3,456,000.00	*gallons*
127.27	*acre-inches*
1.63	*inches/acre*

Total harvests for the crop	
1	*harvests*

16C - 06/08/2023: Corn, silage

Field name: 16C | Crop: Corn, silage | Plant date: 06/08/2023



	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	274.49	80.63	357.82	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	103.81	0.00	0.00	3,780.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	385.31	80.63	357.82	3,780.83
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	281.99	33.46	248.53	845.37
Nutrient balance	103.32	47.18	109.29	2,935.46
Applied to removed ratio	1.37	2.41	1.44	4.47

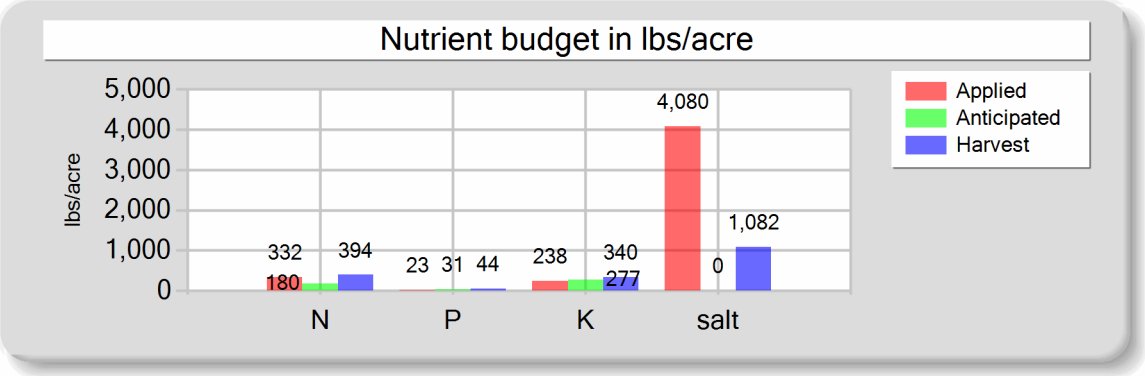
Fresh water applied	
59,896,800.00	*gallons*
2,205.80	*acre-inches*
28.28	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16D - 10/25/2022: Triticale, soft dough

Field name: 16D | Crop: Triticale, soft dough | Plant date: 10/25/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	280.64	23.18	238.44	2,460.67
Fresh water	44.48	0.00	0.00	1,619.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	332.11	23.18	238.44	4,080.44
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	393.94	44.48	339.93	1,081.72
Nutrient balance	-61.82	-21.29	-101.49	2,998.72
Applied to removed ratio	0.84	0.52	0.70	3.77

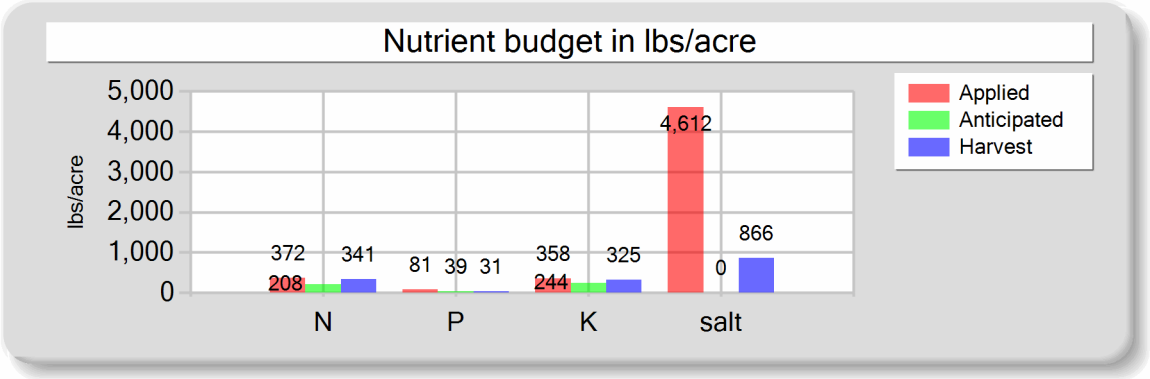
Fresh water applied	
25,660,800.00	*gallons*
945.00	*acre-inches*
12.12	*inches/acre*

Process wastewater applied	
4,752,000.00	*gallons*
175.00	*acre-inches*
2.24	*inches/acre*

Total harvests for the crop	
1	*harvests*

16D - 06/14/2023: Corn, silage

Field name: 16D | Crop: Corn, silage | Plant date: 06/14/2023



	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	274.49	80.63	357.82	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	90.85	0.00	0.00	4,612.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	372.34	80.63	357.82	4,612.23
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	340.83	30.98	325.34	865.85
Nutrient balance	31.51	49.65	32.48	3,746.38
Applied to removed ratio	1.09	2.60	1.10	5.33

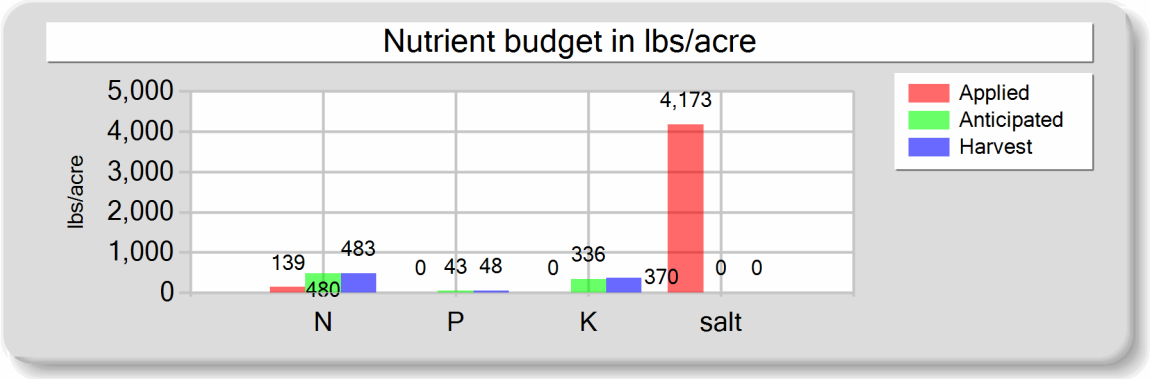
Fresh water applied	
65,318,400.00	*gallons*
2,405.45	*acre-inches*
30.84	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16E - 11/01/2019: Alfalfa, hay

Field name: 16E | Crop: Alfalfa, hay | Plant date: 11/01/2019



	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	0.00	0.00	0.00	0.00
Fresh water	125.18	0.00	0.00	4,172.63
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	139.18	0.00	0.00	4,172.63
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	482.63	47.56	369.90	0.00
Nutrient balance	-343.45	-47.56	-369.90	4,172.63
Applied to removed ratio	0.29	0.00	0.00	0.00

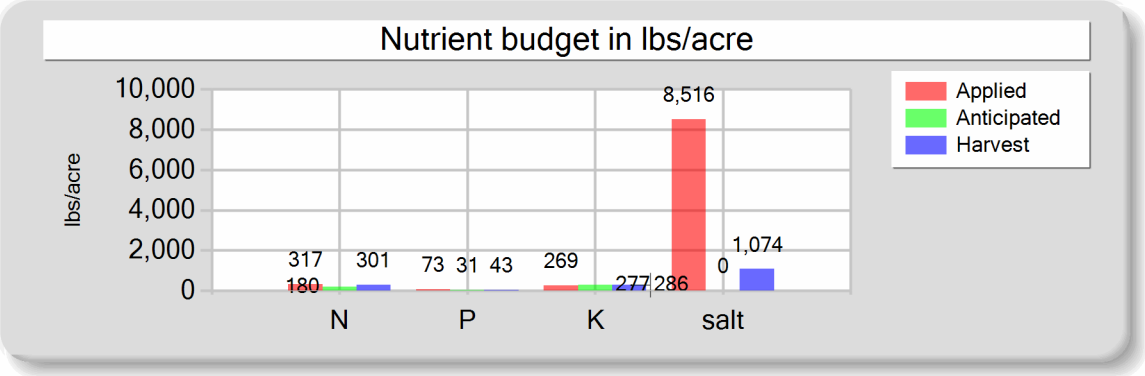
Fresh water applied	
70,911,360.00	*gallons*
2,611.42	*acre-inches*
33.48	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16F - 10/26/2022: Triticale, soft dough

Field name: 16F | Crop: Triticale, soft dough | Plant date: 10/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	263.52	72.60	268.89	6,964.34
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	46.54	0.00	0.00	1,551.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	317.06	72.60	268.89	8,515.70
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	300.50	43.45	286.02	1,074.34
Nutrient balance	16.55	29.16	-17.13	7,441.36
Applied to removed ratio	1.06	1.67	0.94	7.93

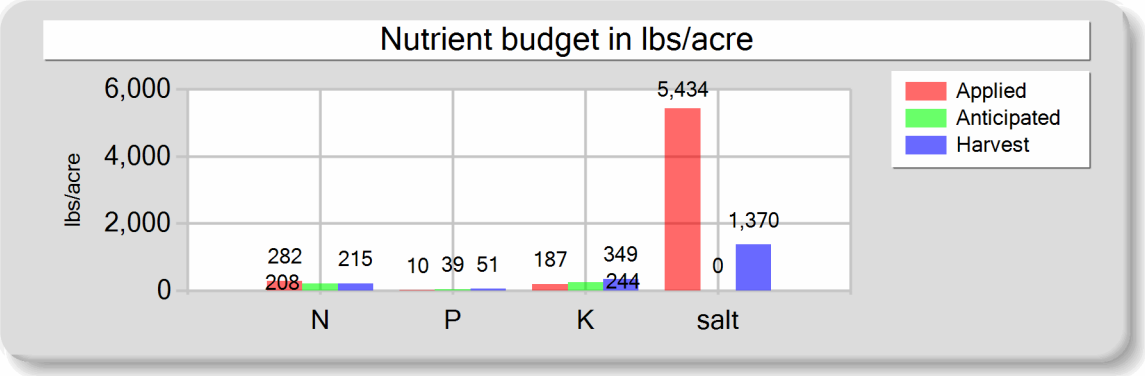
Fresh water applied	
26,364,480.00	*gallons*
970.91	*acre-inches*
12.45	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

16F - 06/13/2023: Corn, silage

Field name: 16F Crop: Corn, silage Plant date: 06/13/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	167.10	9.52	187.43	1,823.47
Fresh water	108.33	0.00	0.00	3,610.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	282.42	9.52	187.43	5,434.41
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	215.28	51.26	348.54	1,369.57
Nutrient balance	67.15	-41.73	-161.11	4,064.83
Applied to removed ratio	1.31	0.19	0.54	3.97

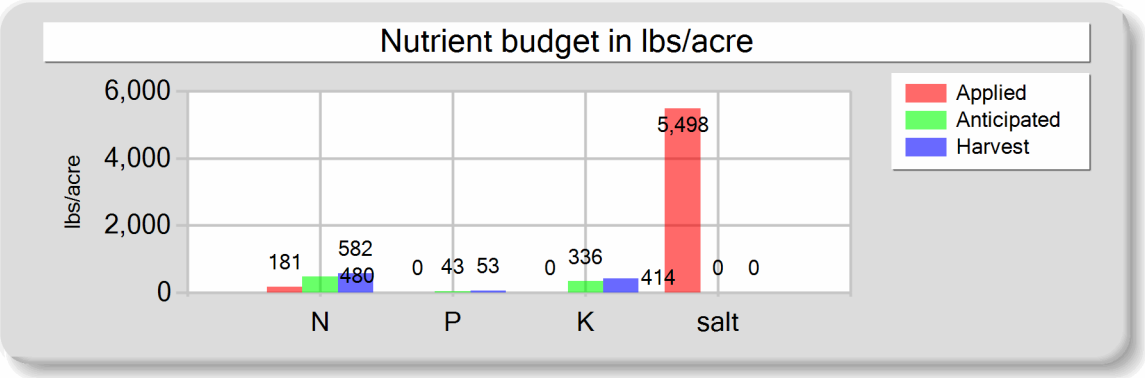
Fresh water applied	
61,365,600.00	*gallons*
2,259.89	*acre-inches*
28.97	*inches/acre*

Process wastewater applied	
3,168,000.00	*gallons*
116.67	*acre-inches*
1.50	*inches/acre*

Total harvests for the crop	
1	*harvests*

16G - 02/01/2022: Alfalfa, hay

Field name: 16G Crop: Alfalfa, hay Plant date: 02/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	166.73	0.00	0.00	5,498.41
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	180.73	0.00	0.00	5,498.41
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	582.06	53.27	414.35	0.00
Nutrient balance	-401.34	-53.27	-414.35	5,498.41
Applied to removed ratio	0.31	0.00	0.00	0.00

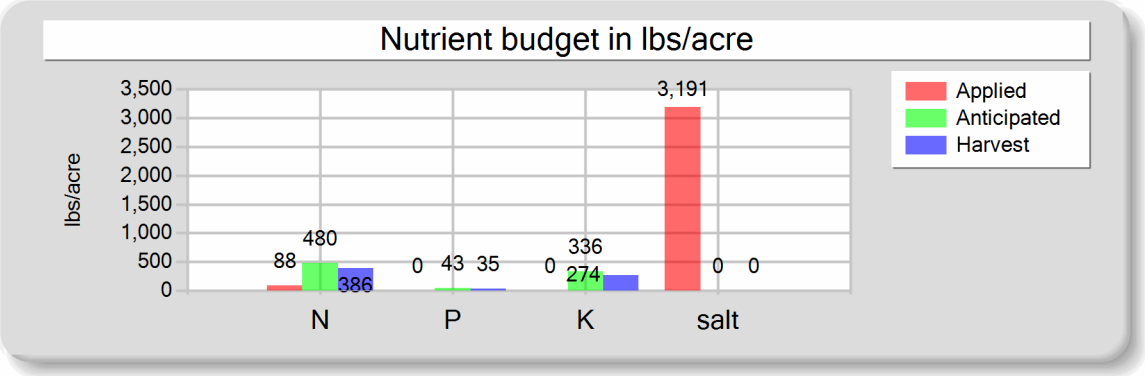
Fresh water applied	
81,829,440.00	*gallons*
3,013.50	*acre-inches*
39.14	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3B - 11/01/2019: Alfalfa, hay

Field name: 3B Crop: Alfalfa, hay Plant date: 11/01/2019



	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	0.00	0.00	0.00	0.00
Fresh water	73.74	0.00	0.00	3,190.82
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	87.74	0.00	0.00	3,190.82
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	385.98	35.21	273.84	0.00
Nutrient balance	-298.24	-35.21	-273.84	3,190.82
Applied to removed ratio	0.23	0.00	0.00	0.00

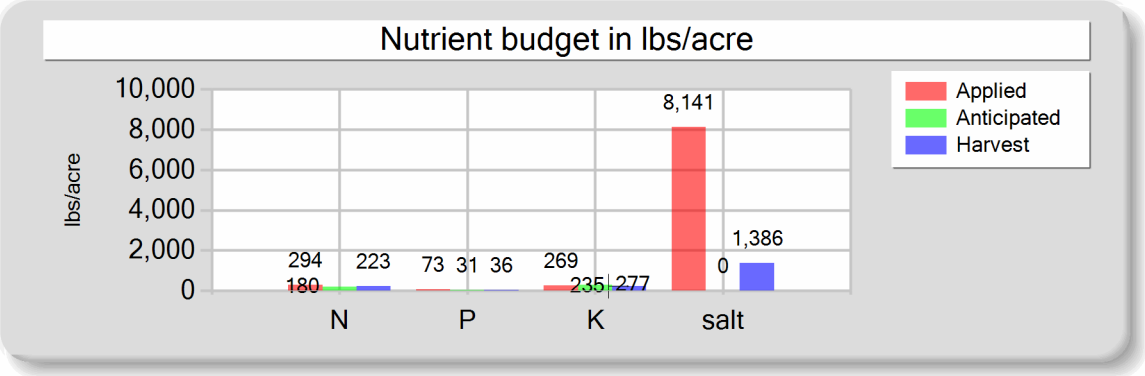
Fresh water applied	
4,248,480.00	*gallons*
156.46	*acre-inches*
31.29	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3E - 11/17/2022: Triticale, soft dough

Field name: 3E | Crop: Triticale, soft dough | Plant date: 11/17/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	263.52	72.60	268.89	6,964.34
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	23.78	0.00	0.00	1,177.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.29	72.60	268.89	8,141.47
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	223.24	35.88	235.20	1,385.76
Nutrient balance	71.05	36.72	33.70	6,755.71
Applied to removed ratio	1.32	2.02	1.14	5.88

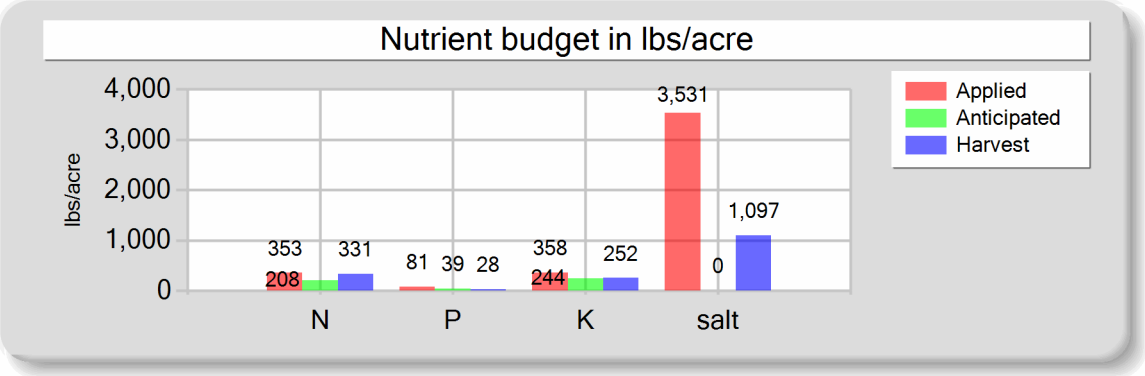
Fresh water applied	
22,005,120.00	*gallons*
810.37	*acre-inches*
10.39	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3E - 06/27/2023: Corn, silage

Field name: 3E | Crop: Corn, silage | Plant date: 06/27/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	274.49	80.63	357.82	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	71.33	0.00	0.00	3,531.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	352.83	80.63	357.82	3,531.40
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	330.79	27.95	251.58	1,096.91
Nutrient balance	22.04	52.68	106.24	2,434.49
Applied to removed ratio	1.07	2.88	1.42	3.22

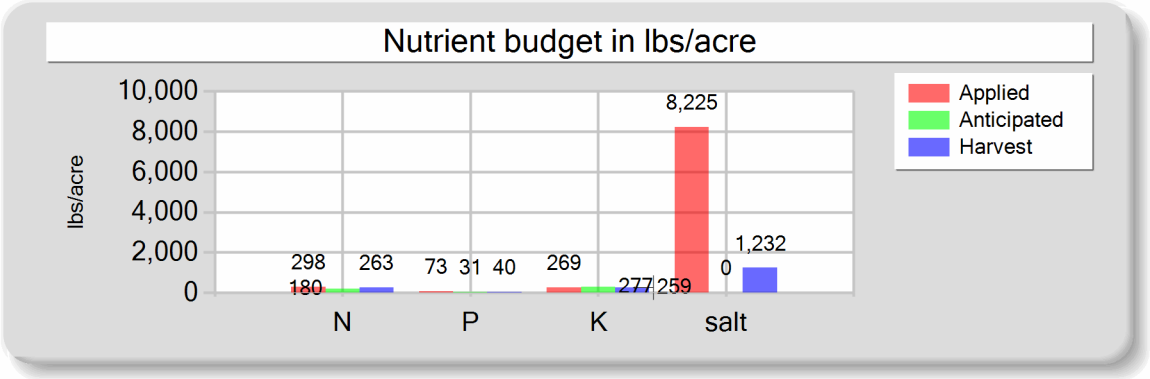
Fresh water applied	
66,015,360.00	*gallons*
2,431.12	*acre-inches*
31.17	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3F - 11/28/2022: Triticale, soft dough

Field name: 3F | Crop: Triticale, soft dough | Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	263.52	72.60	268.89	6,964.34
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	27.90	0.00	0.00	1,260.91
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	298.42	72.60	268.89	8,225.25
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	263.10	39.86	259.12	1,231.90
Nutrient balance	35.31	32.74	9.78	6,993.36
Applied to removed ratio	1.13	1.82	1.04	6.68

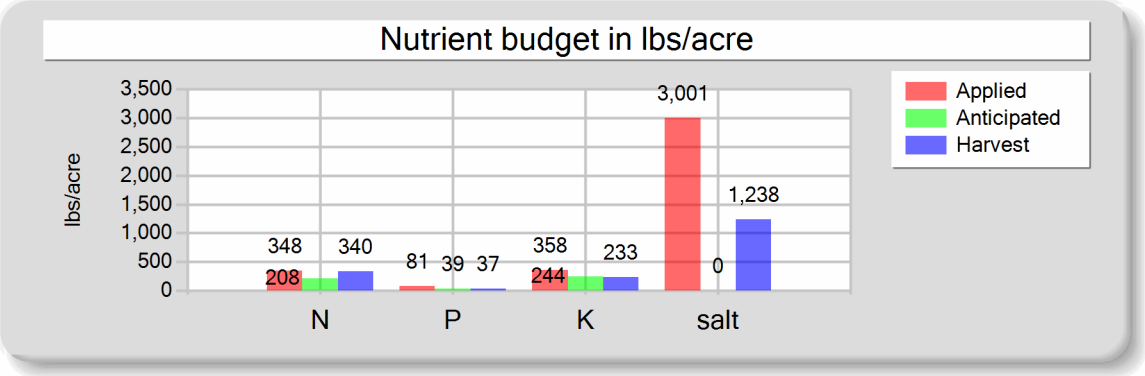
Fresh water applied	
25,075,866.00	*gallons*
923.46	*acre-inches*
11.84	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3F - 06/26/2023: Corn, silage

Field name: 3F | Crop: Corn, silage | Plant date: 06/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	274.49	80.63	357.82	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	66.41	0.00	0.00	3,001.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	347.91	80.63	357.82	3,001.45
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	340.11	37.27	232.95	1,237.66
Nutrient balance	7.80	43.36	124.87	1,763.79
Applied to removed ratio	1.02	2.16	1.54	2.43

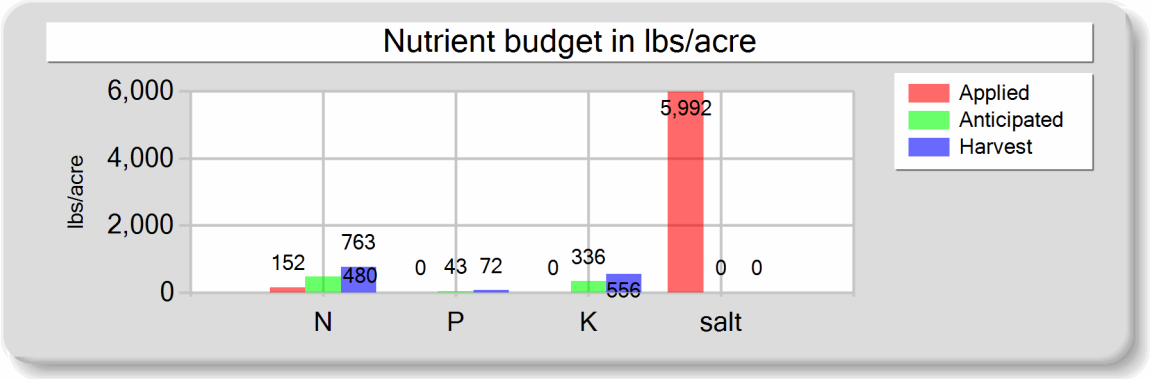
Fresh water applied	
59,689,920.00	*gallons*
2,198.18	*acre-inches*
28.18	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3G - 11/01/2020: Alfalfa, hay

Field name: 3G Crop: Alfalfa, hay Plant date: 11/01/2020



	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	0.00	0.00	0.00	0.00
Fresh water	138.48	0.00	0.00	5,991.86
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	152.48	0.00	0.00	5,991.86
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	763.12	71.54	556.44	0.00
Nutrient balance	-610.64	-71.54	-556.44	5,991.86
Applied to removed ratio	0.20	0.00	0.00	0.00

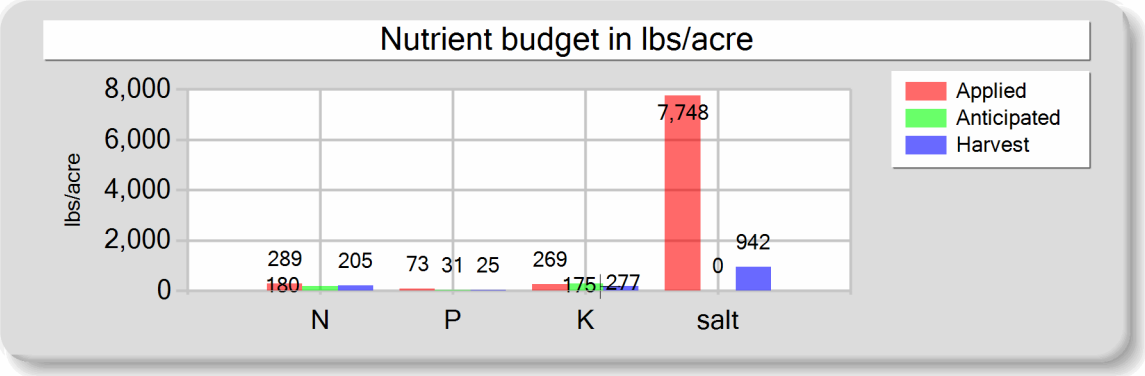
Fresh water applied	
79,779,840.00	*gallons*
2,938.02	*acre-inches*
58.76	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3H - 11/24/2022: Triticale, soft dough

Field name: 3H Crop: Triticale, soft dough Plant date: 11/24/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	263.52	72.60	268.89	6,964.34
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	18.12	0.00	0.00	783.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.63	72.60	268.89	7,748.20
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	205.47	24.53	174.80	942.32
Nutrient balance	83.16	48.07	94.09	6,805.88
Applied to removed ratio	1.40	2.96	1.54	8.22

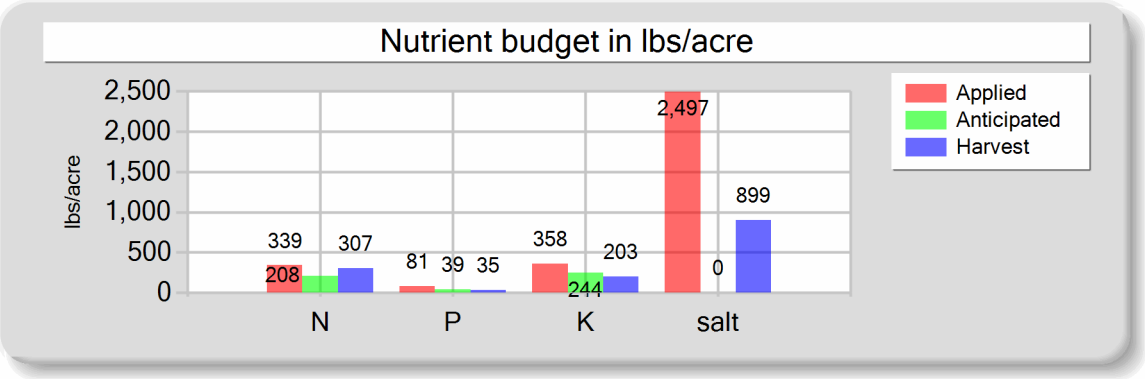
Fresh water applied	
16,281,600.00	*gallons*
599.60	*acre-inches*
7.69	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

3H - 06/22/2023: Corn, silage

Field name: 3H | Crop: Corn, silage | Plant date: 06/22/2023



	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	274.49	80.63	357.82	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	57.71	0.00	0.00	2,497.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	339.21	80.63	357.82	2,497.25
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	306.98	34.66	203.00	899.40
Nutrient balance	32.23	45.97	154.82	1,597.84
Applied to removed ratio	1.10	2.33	1.76	2.78

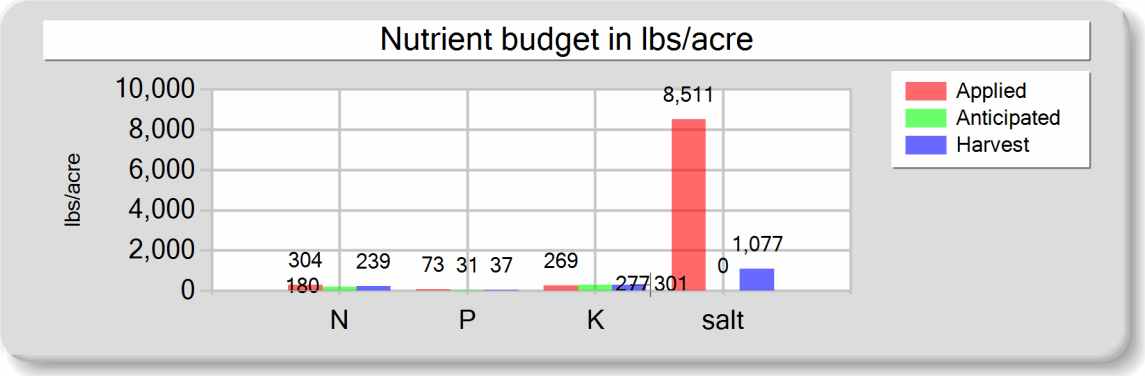
Fresh water applied	
51,870,080.00	*gallons*
1,910.20	*acre-inches*
24.49	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

4E - 11/22/2022: Triticale, soft dough

Field name: 4E | Crop: Triticale, soft dough | Plant date: 11/22/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	263.52	72.60	268.89	6,964.34
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	33.43	0.00	0.00	1,546.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	303.94	72.60	268.89	8,510.79
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	239.09	37.26	301.20	1,076.96
Nutrient balance	64.85	35.34	-32.30	7,433.83
Applied to removed ratio	1.27	1.95	0.89	7.90

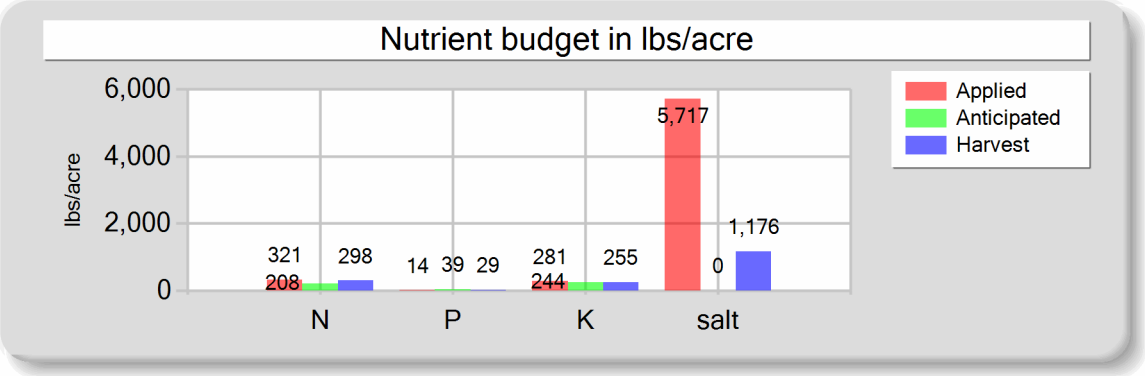
Fresh water applied	
30,935,280.00	*gallons*
1,139.24	*acre-inches*
14.61	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

4E - 06/21/2023: Corn, silage

Field name: 4E | Crop: Corn, silage | Plant date: 06/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	250.64	14.29	281.15	2,735.21
Fresh water	63.32	0.00	0.00	2,981.84
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	320.96	14.29	281.15	5,717.05
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	298.24	28.86	254.94	1,176.43
Nutrient balance	22.73	-14.58	26.20	4,540.63
Applied to removed ratio	1.08	0.49	1.10	4.86

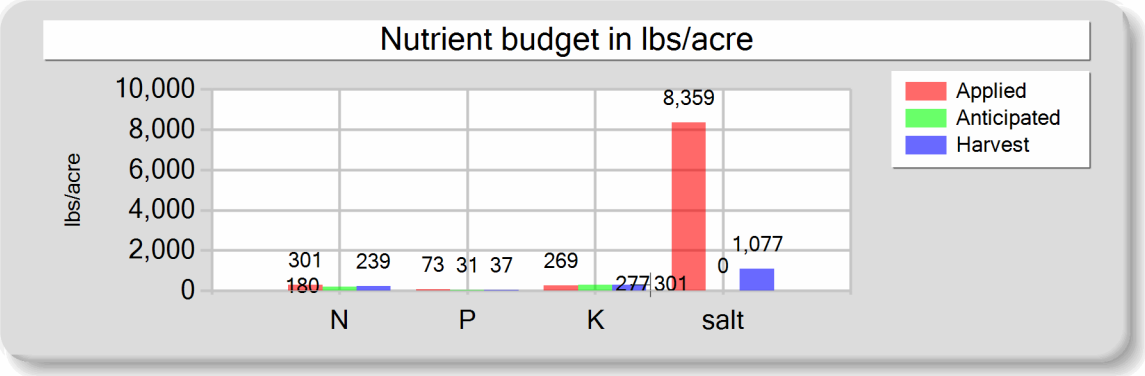
Fresh water applied	
63,497,520.00	*gallons*
2,338.40	*acre-inches*
29.98	*inches/acre*

Process wastewater applied	
4,752,000.00	*gallons*
175.00	*acre-inches*
2.24	*inches/acre*

Total harvests for the crop	
1	*harvests*

4F - 11/23/2022: Triticale, soft dough

Field name: 4F | Crop: Triticale, soft dough | Plant date: 11/23/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	263.52	72.60	268.89	6,964.34
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	30.06	0.00	0.00	1,394.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.57	72.60	268.89	8,358.55
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	239.09	37.26	301.20	1,076.96
Nutrient balance	61.48	35.34	-32.30	7,281.59
Applied to removed ratio	1.26	1.95	0.89	7.76

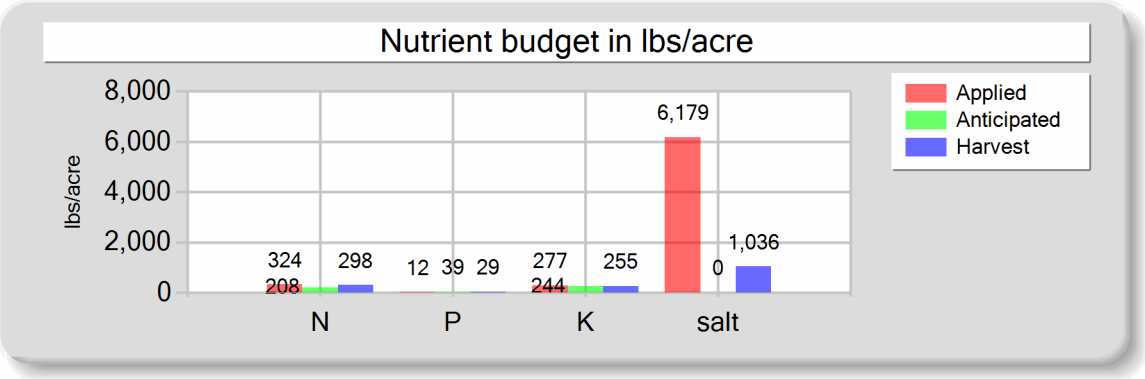
Fresh water applied	
28,159,200.00	*gallons*
1,037.01	*acre-inches*
13.29	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

4F - 06/20/2023: Corn, silage

Field name: 4F Crop: Corn, silage Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	259.29	11.69	277.08	3,416.47
Fresh water	57.57	0.00	0.00	2,762.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	323.85	11.69	277.08	6,178.90
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	298.24	28.86	254.94	1,036.37
Nutrient balance	25.62	-17.17	22.14	5,142.52
Applied to removed ratio	1.09	0.41	1.09	5.96

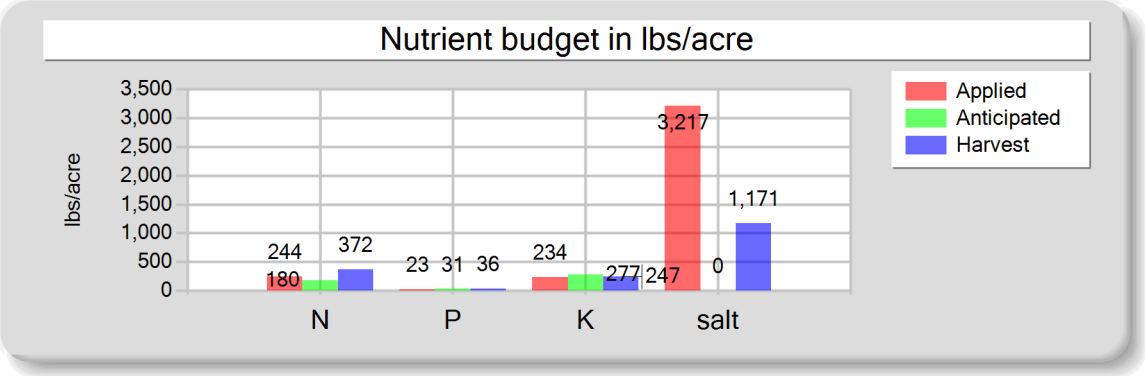
Fresh water applied	
62,539,920.00	*gallons*
2,303.13	*acre-inches*
29.53	*inches/acre*

Process wastewater applied	
4,752,000.00	*gallons*
175.00	*acre-inches*
2.24	*inches/acre*

Total harvests for the crop	
1	*harvests*

9A - 10/28/2022: Triticale, soft dough

Field name: 9A | Crop: Triticale, soft dough | Plant date: 10/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	214.03	22.63	233.59	2,078.74
Fresh water	23.06	0.00	0.00	1,138.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	244.09	22.63	233.59	3,216.90
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	372.13	36.22	246.99	1,171.49
Nutrient balance	-128.03	-13.59	-13.40	2,045.41
Applied to removed ratio	0.66	0.62	0.95	2.75

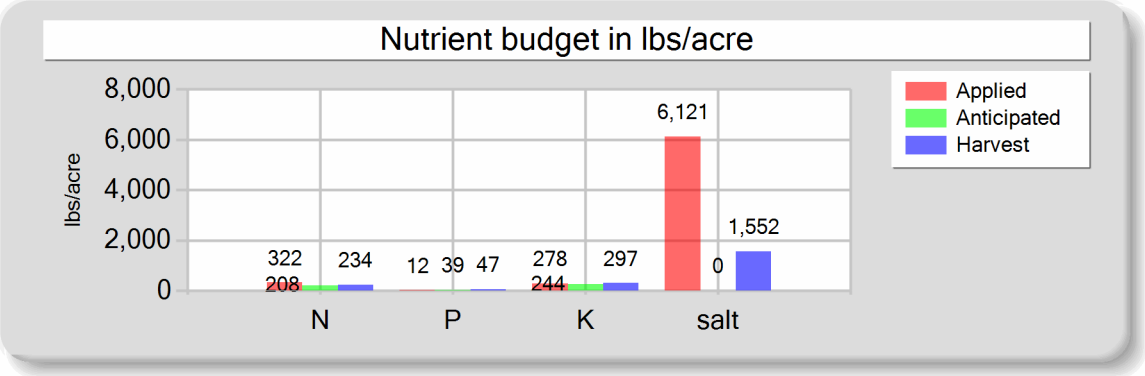
Fresh water applied	
26,200,800.00	*gallons*
964.89	*acre-inches*
13.22	*inches/acre*

Process wastewater applied	
3,168,000.00	*gallons*
116.67	*acre-inches*
1.60	*inches/acre*

Total harvests for the crop	
1	*harvests*

9A - 06/07/2023: Corn, silage

Field name: 9A Crop: Corn, silage Plant date: 06/07/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	260.14	11.73	277.99	3,427.70
Fresh water	54.58	0.00	0.00	2,693.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	321.72	11.73	277.99	6,121.33
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	234.12	46.82	296.56	1,552.31
Nutrient balance	87.60	-35.09	-18.57	4,569.03
Applied to removed ratio	1.37	0.25	0.94	3.94

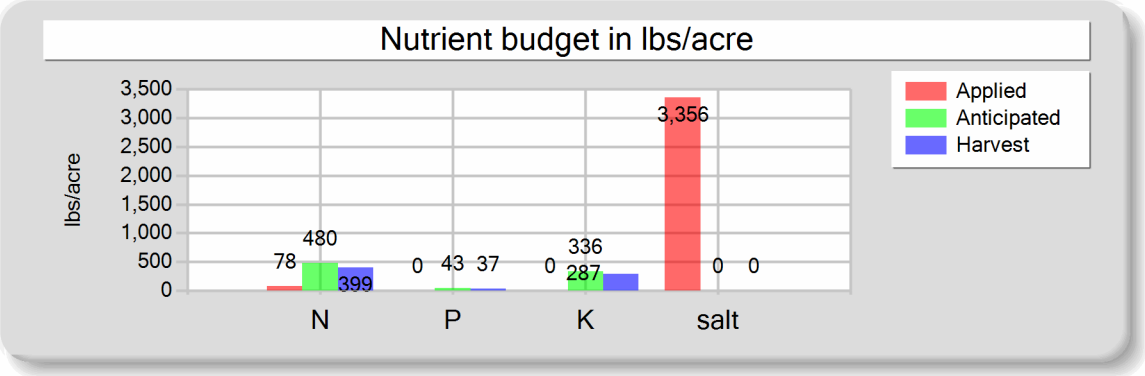
Fresh water applied	
62,008,560.00	*gallons*
2,283.56	*acre-inches*
31.28	*inches/acre*

Process wastewater applied	
4,462,000.00	*gallons*
164.32	*acre-inches*
2.25	*inches/acre*

Total harvests for the crop	
1	*harvests*

9B - 11/01/2019: Alfalfa, hay

Field name: 9B Crop: Alfalfa, hay Plant date: 11/01/2019



	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	0.00	0.00	0.00	0.00
Fresh water	63.77	0.00	0.00	3,356.29
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	77.77	0.00	0.00	3,356.29
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	398.93	36.89	286.90	0.00
Nutrient balance	-321.16	-36.89	-286.90	3,356.29
Applied to removed ratio	0.19	0.00	0.00	0.00

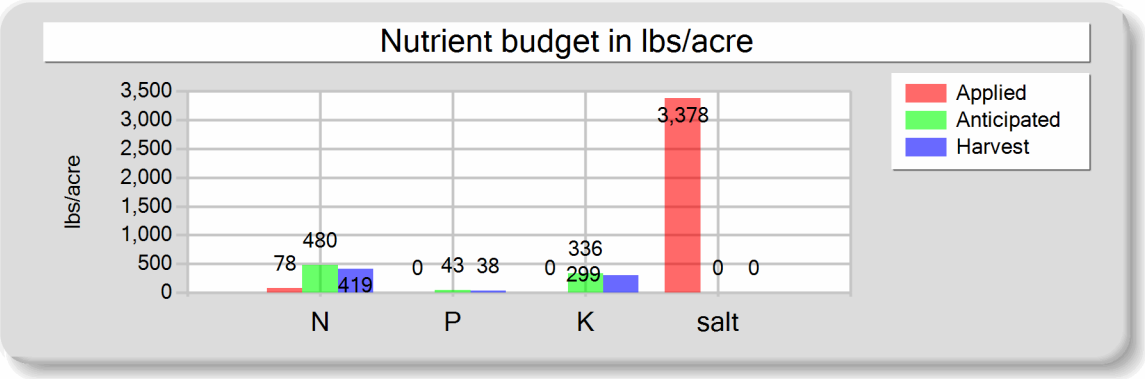
Fresh water applied	
10,054,800.00	*gallons*
370.28	*acre-inches*
37.03	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

9C - 11/02/2021: Alfalfa, hay

Field name: 9C Crop: Alfalfa, hay Plant date: 11/02/2021



	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	0.00	0.00	0.00	0.00
Fresh water	64.18	0.00	0.00	3,377.87
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	78.18	0.00	0.00	3,377.87
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	418.70	38.45	299.07	0.00
Nutrient balance	-340.52	-38.45	-299.07	3,377.87
Applied to removed ratio	0.19	0.00	0.00	0.00

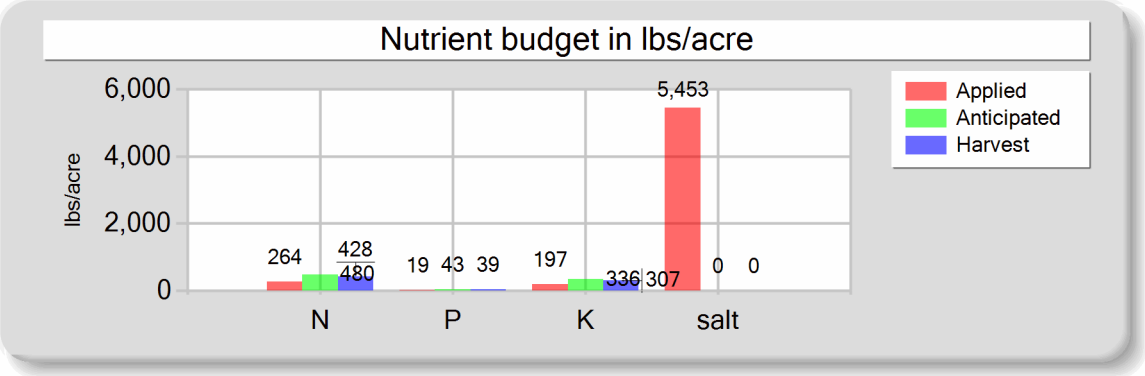
Fresh water applied	
73,872,000.00	*gallons*
2,720.45	*acre-inches*
37.27	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

9D - 11/01/2022: Alfalfa, hay

Field name: 9D Crop: Alfalfa, hay Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	180.05	19.04	196.50	1,748.70
Fresh water	70.39	0.00	0.00	3,704.56
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	264.44	19.04	196.50	5,453.26
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	427.78	39.42	306.60	0.00
Nutrient balance	-163.34	-20.38	-110.10	5,453.26
Applied to removed ratio	0.62	0.48	0.64	0.00

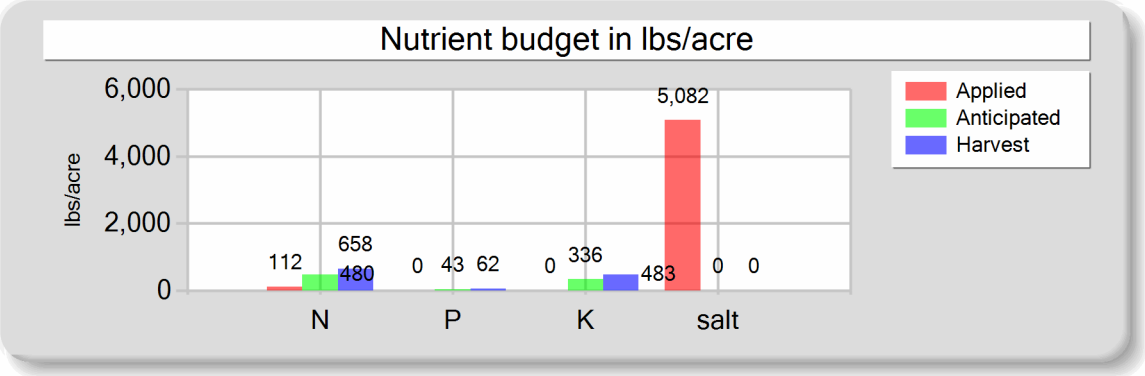
Fresh water applied	
78,796,800.00	*gallons*
2,901.82	*acre-inches*
40.87	*inches/acre*

Process wastewater applied	
2,592,000.00	*gallons*
95.45	*acre-inches*
1.34	*inches/acre*

Total harvests for the crop	
1	*harvests*

9E - 02/01/2022: Alfalfa, hay

Field name: 9E Crop: Alfalfa, hay Plant date: 02/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	98.30	0.00	0.00	5,081.69
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	112.30	0.00	0.00	5,081.69
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	658.11	62.13	483.23	0.00
Nutrient balance	-545.81	-62.13	-483.23	5,081.69
Applied to removed ratio	0.17	0.00	0.00	0.00

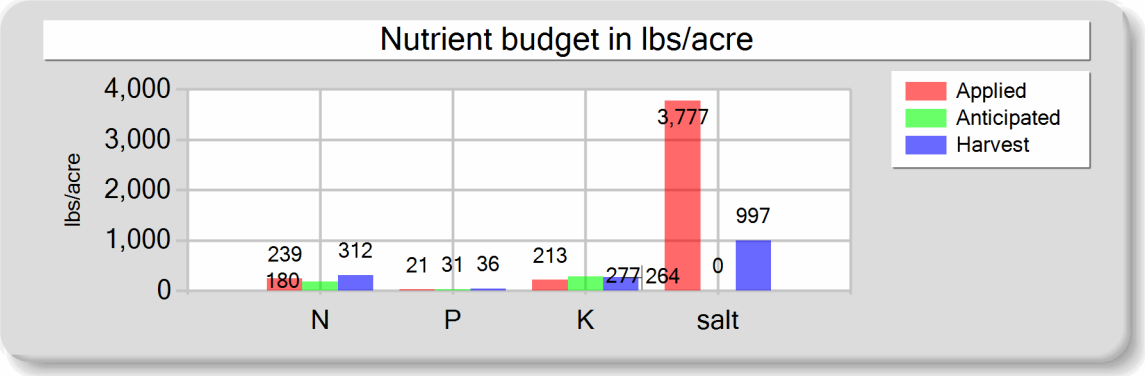
Fresh water applied	
79,862,400.00	*gallons*
2,941.06	*acre-inches*
36.76	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

9F - 10/20/2022: Triticale, soft dough

Field name: 9F | Crop: Triticale, soft dough | Plant date: 10/20/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	195.30	20.65	213.15	1,896.85
Fresh water	36.38	0.00	0.00	1,880.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	238.68	20.65	213.15	3,777.37
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	311.59	35.61	264.11	996.62
Nutrient balance	-72.91	-14.96	-50.96	2,780.75
Applied to removed ratio	0.77	0.58	0.81	3.79

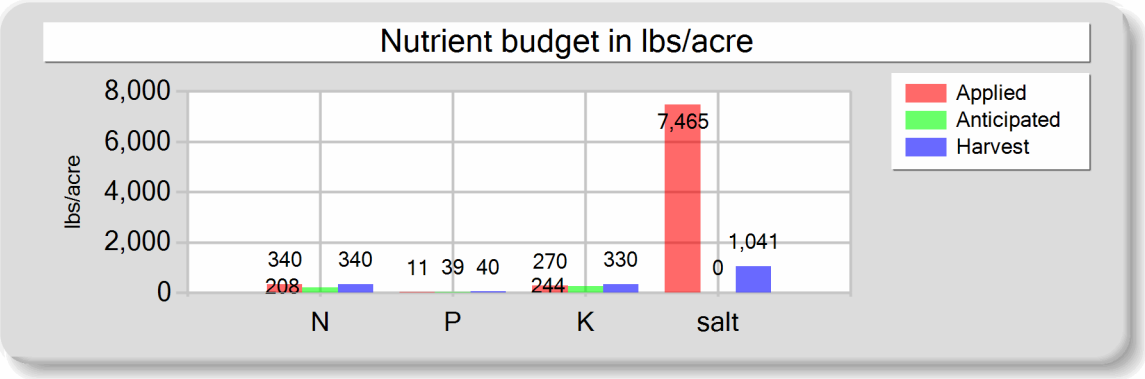
Fresh water applied	
29,553,600.00	*gallons*
1,088.36	*acre-inches*
13.60	*inches/acre*

Process wastewater applied	
3,168,000.00	*gallons*
116.67	*acre-inches*
1.46	*inches/acre*

Total harvests for the crop	
1	*harvests*

9F - 06/06/2023: Corn, silage

Field name: 9F Crop: Corn, silage Plant date: 06/06/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	252.80	11.40	270.15	3,331.06
Fresh water	79.97	0.00	0.00	4,134.26
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	339.78	11.40	270.15	7,465.32
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	340.34	40.04	330.33	1,041.48
Nutrient balance	-0.56	-28.64	-60.18	6,423.84
Applied to removed ratio	1.00	0.28	0.82	7.17

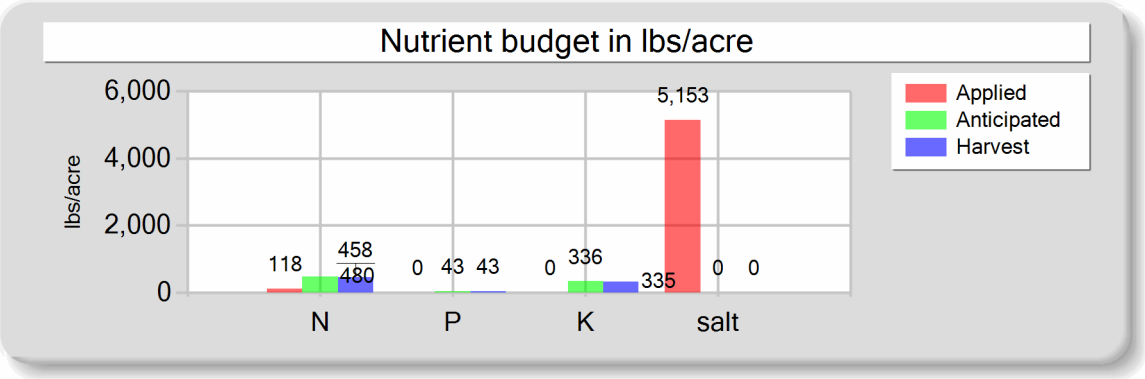
Fresh water applied	
64,972,800.00	*gallons*
2,392.73	*acre-inches*
29.91	*inches/acre*

Process wastewater applied	
4,752,000.00	*gallons*
175.00	*acre-inches*
2.19	*inches/acre*

Total harvests for the crop	
1	*harvests*

9G - 11/01/2020: Alfalfa, hay

Field name: 9G Crop: Alfalfa, hay Plant date: 11/01/2020



	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	0.00	0.00	0.00	0.00
Fresh water	104.47	0.00	0.00	5,153.01
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	118.47	0.00	0.00	5,153.01
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	457.84	43.07	335.01	0.00
Nutrient balance	-339.37	-43.07	-335.01	5,153.01
Applied to removed ratio	0.26	0.00	0.00	0.00

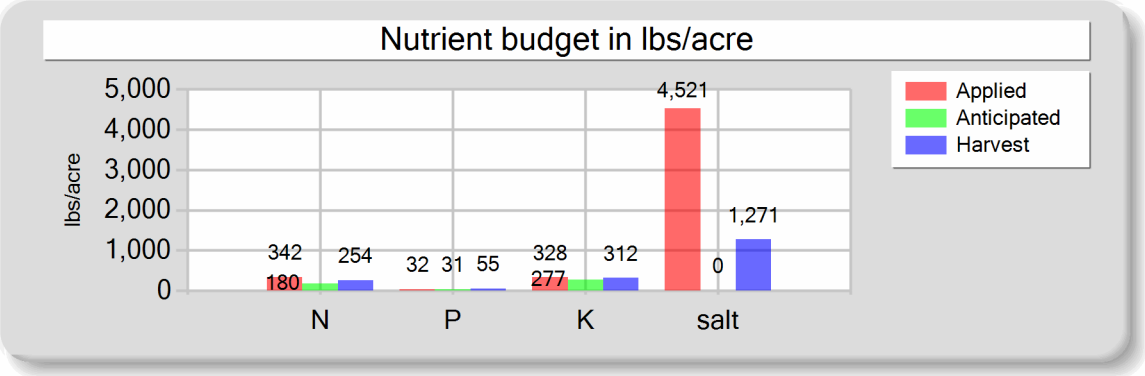
Fresh water applied	
16,071,840.00	*gallons*
591.87	*acre-inches*
31.15	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

9H - 10/19/2022: Triticale, soft dough

Field name: 9H | Crop: Triticale, soft dough | Plant date: 10/19/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	300.47	31.78	327.92	2,918.23
Fresh water	35.00	0.00	0.00	1,603.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	342.47	31.78	327.92	4,521.37
Anticipated crop nutrient removal	180.00	30.60	277.20	0.00
Actual crop nutrient removal	253.88	54.89	312.20	1,270.99
Nutrient balance	88.59	-23.12	15.72	3,250.38
Applied to removed ratio	1.35	0.58	1.05	3.56

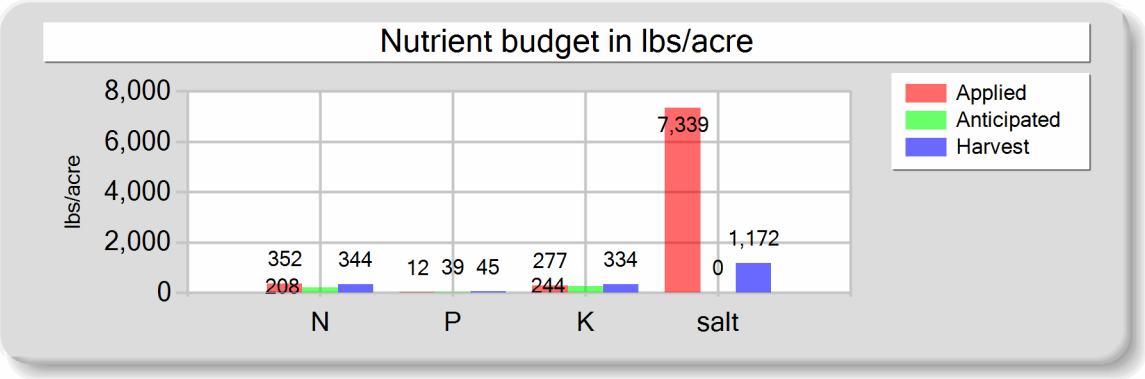
Fresh water applied	
24,973,920.00	*gallons*
919.70	*acre-inches*
11.79	*inches/acre*

Process wastewater applied	
4,752,000.00	*gallons*
175.00	*acre-inches*
2.24	*inches/acre*

Total harvests for the crop	
1	*harvests*

9H - 06/05/2023: Corn, silage

Field name: 9H Crop: Corn, silage Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	259.29	11.69	277.08	3,416.47
Fresh water	85.64	0.00	0.00	3,922.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.93	11.69	277.08	7,339.03
Anticipated crop nutrient removal	208.00	39.00	244.40	0.00
Actual crop nutrient removal	344.47	44.93	334.48	1,171.53
Nutrient balance	7.46	-33.24	-57.40	6,167.49
Applied to removed ratio	1.02	0.26	0.83	6.26

Fresh water applied	
61,106,400.00	*gallons*
2,250.34	*acre-inches*
28.85	*inches/acre*

Process wastewater applied	
4,752,000.00	*gallons*
175.00	*acre-inches*
2.24	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

SM

Sample and source description: SM

Sample date: 12/20/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 53.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,600.00	5,400.00	20,000.00	33,300.00	8,900.00	5,500.00	4,900.00	2,220.00		51.80
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	50.00		0.01

Spring SM

Sample and source description: Spring SM

Sample date: 03/31/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 57.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,200.00	3,290.00	14,600.00							
DL	100.00	100.00	100.00							

Fall SM

Sample and source description: Fall SM

Sample date: 09/20/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 55.3 %

	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	14,200.00	5,460.00	14,000.00							59.00
DL	100.00	100.00	100.00							0.01

B. PROCESS WASTEWATER ANALYSES

4QWW

Sample and source description: 4QWW

Sample date: 12/20/2022 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	591.00	386.00			62.50	645.00	164.00	133.00	227.00	3,000.00	0.00	245.00	266.00	6,560.00	5,740
DL	0.50	0.50			0.50	0.50	0.50	0.50	0.50	0.50	2.00	1.00	0.10	1.00	10

1st QWW

Sample and source description: 1st QWW

Sample date: 03/31/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	552.00	386.00			45.60	469.00								6,370.00	4,840
DL	0.50	0.50			0.50	0.50								1.00	10

2nd WW

Sample and source description: 2nd WW

Sample date: 06/30/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	510.00	395.00			23.00	545.00								6,260.00	6,720
DL	0.50	0.50			0.50	0.50								1.00	10

3rd QTRWW

Sample and source description: 3rd QTRWW

Sample date: 09/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	493.00	361.00			28.10	553.00								5,970.00	5,380
DL	0.50	0.50			0.50	0.50								1.00	10

4th QWW

Sample and source description: 4th QWW

Sample date: 12/19/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	571.00	406.00			43.90	650.00	155.00	113.00	230.00	3,000.00	0.00	187.00	126.00	5,460.00	5,320
DL	0.50	0.50			0.50	0.50	0.50	0.50	0.50	0.50	2.00	1.00	0.50	1.00	10

C. FRESH WATER ANALYSES

FW-1

Ag Well 1

Sample description: Ag Well 1

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	11.70	47.50	21.60	88.00	279.00	0.00	32.10	39.20	820.00	520
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-11

Ag Well 11

Sample description: Ag Well 11

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	11.00	46.60	21.10	87.00	262.00	0.00	30.20	36.60	743.00	500
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-12

FW-12

Ag Well 12

Sample description: Ag Well 12

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	7.70	51.00	19.80	44.00	230.00	0.00	18.50	27.30	607.00	380
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-13

Ag Well 13

Sample description: Ag Well 13

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	7.60	48.20	18.70	41.00	223.00	0.00	18.30	26.90	593.00	400
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-14

Ag Well 14

Sample description: Ag Well 14

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	11.80	83.30	28.40	73.00	308.00	0.00	40.10	66.00	956.00	610
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-15

FW-15

Ag Well 15

Sample description: Ag Well 15

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	15.40	67.80	17.10	64.00	239.00	0.00	41.30	45.40	777.00	520
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-17

Ag Well 17

Sample description: Ag Well 17

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	12.00	55.50	13.80	54.00	183.00	0.00	32.00	35.70	626.00	430
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-18

Dom. Well 18

Sample description: Dom. Well 18

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	18.50	85.20	21.10	76.00	281.00	0.00	49.50	54.70	930.00	620
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-19

FW-19

Ag Well 19

Sample description: Ag Well 19

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	18.80	86.60	21.50	80.00	294.00	0.00	50.40	55.60	935.00	620
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-2

Ag Well 2

Sample description: Ag Well 2

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	10.10	42.50	19.30	76.00	255.00	0.00	28.50	34.40	717.00	500
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-20

Ag Well 20

Sample description: Ag Well 20

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	16.20	73.50	18.30	68.00	251.00	0.00	43.50	48.20	827.00	590
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-21

FW-21

Ag Well 21

Sample description: Ag Well 21

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	13.00	90.80	30.90	78.00	347.00	0.00	43.70	72.50	1,030.00	660
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-22

Ag Well 22

Sample description: Ag Well 22

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	14.80	102.00	34.90	90.00	380.00	0.00	51.70	83.10	1,160.00	730
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-23

Dom. Well 23

Sample description: Dom. Well 23

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	5.60	38.20	14.80	33.00	168.00	0.00	13.60	20.20	448.00	275
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-24

FW-24

Ag Well 24

Sample description: Ag Well 24

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	13.10	92.40	32.00	79.00	347.00	0.00	46.30	74.50	1,020.00	600
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-25

Dom. Well 25

Sample description: Dom. Well 25

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	13.80	101.00	34.40	87.00	362.00	0.00	46.40	76.70	1,080.00	690
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-26

Dom. Well 26

Sample description: Dom. Well 26

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	13.40	104.00	35.30	87.00	362.00	0.00	46.10	79.20	1,090.00	660
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-27

FW-27

Dom. Well 27

Sample description: Dom. Well 27

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	7.50	53.70	20.70	45.00	225.00	0.00	18.30	27.50	596.00	400
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-28

Dom. Well 28

Sample description: Dom. Well 28

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	6.70	47.30	18.30	40.00	205.00	0.00	16.40	24.70	547.00	360
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-29

Dom. Well 29

Sample description: Dom. Well 29

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	18.10	80.00	19.90	74.00	280.00	0.00	48.50	54.90	921.00	580
DL		0.50	0.10	0.10	0.10	1.00	5.00	0.50	0.50	0.20	10.00	10

FW-3

FW-3

Ag Well 3

Sample description: Ag Well 3

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	10.40	42.90	19.50	80.00	256.00	0.00	29.70	35.90	744.00	470
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-35

Ag Well 35

Sample description: Ag Well 35

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	16.50	81.40	20.10	72.00	252.00	0.00	43.90	49.70	844.00	550
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-4

Dom. Well 4

Sample description: Dom. Well 4

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	10.20	42.30	19.20	79.00	246.00	0.00	28.30	34.40	706.00	470
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-5

FW-5

Ag Well 5

Sample description: Ag Well 5

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	11.30	50.50	23.00	92.00	275.00	0.00	31.10	38.00	785.00	520
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

FW-8

Ag Well 8

Sample description: Ag Well 8

Sample date: 02/07/2024 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	10.40	44.80	20.30	82.00	253.00	0.00	28.60	34.80	715.00	450
DL		0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

16A1 - 11/16/2022: Triticale, soft dough

16A1 - 11/16/2022: Triticale, soft dough

Triticale 16A1

Sample and source description: Triticale 16A1

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 59.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,500.00	1,300.00	9,800.00		8.64
DL	100.00	100.00	100.00		0.01

16A1 - 06/16/2023: Corn, silage

Corn 16A

Sample and source description: Corn 16A

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,000.00	900.00	6,000.00		5.67
DL	100.00	100.00	100.00		0.01

16A2 - 11/16/2022: Triticale, soft dough

Triticale 16A2

Sample and source description: Triticale 16A2

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 59.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,500.00	1,300.00	9,800.00		8.64
DL	100.00	100.00	100.00		0.01

16A2 - 11/16/2022: Oats, hay

16A

Sample and source description: 16A

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 33.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,400.00	4,500.00	23,100.00		8.54
DL	100.00	100.00	100.00		0.01

16A2 - 06/13/2023: Corn, silage

Corn 16A

Sample and source description: Corn 16A

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,000.00	900.00	6,000.00		5.67
DL	100.00	100.00	100.00		0.01

16B - 10/21/2022: Triticale, soft dough

Triticale 16B

Sample and source description: Triticale 16B

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,900.00	1,300.00	9,100.00		9.26
DL	100.00	100.00	100.00		0.01

16B - 06/10/2023: Corn, silage

Corn 16B

Sample and source description: Corn 16B

Sample date: 10/09/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 58.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,900.00	1,200.00	6,300.00		5.55
DL	100.00	100.00	100.00		0.01

16C - 11/15/2022: Triticale, soft dough

Triticale 16C

Sample and source description: Triticale 16C

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,200.00	1,200.00	9,300.00		8.53
DL	100.00	100.00	100.00		0.01

16C - 06/08/2023: Corn, silage

Corn 16C

Sample and source description: Corn 16C

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	700.00	5,200.00		6.25
DL	100.00	100.00	100.00		0.01

16D - 10/25/2022: Triticale, soft dough

Triticale 16D

Sample and source description: Triticale 16D

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	1,400.00	10,700.00		9.38
DL	100.00	100.00	100.00		0.01

16D - 06/14/2023: Corn, silage

Corn 16D

Sample and source description: Corn 16D

Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	600.00	6,300.00		5.02
DL	100.00	100.00	100.00		0.01

16E - 11/01/2019: Alfalfa, hay

Alfalfa 16E

Sample and source description: Alfalfa 16E

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	27,400.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

16F - 10/26/2022: Triticale, soft dough

Triticale 16F

Sample and source description: Triticale 16F

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,300.00	1,200.00	7,900.00		8.43
DL	100.00	100.00	100.00		0.01

16F - 06/13/2023: Corn, silage

Corn 16F

Sample and source description: Corn 16F

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	1,000.00	6,800.00		6.68
DL	100.00	100.00	100.00		0.01

16G - 02/01/2022: Alfalfa, hay

Alfalfa 16G

Sample and source description: Alfalfa 16G

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,500.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

3B - 11/01/2019: Alfalfa, hay

Alfalfa 3B

Sample and source description: Alfalfa 3B

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,600.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

3E - 11/17/2022: Triticale, soft dough

Triticale 3E

Sample and source description: Triticale 3E

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 54.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	900.00	5,900.00		7.59
DL	100.00	100.00	100.00		0.01

3E - 06/27/2023: Corn, silage

Corn 3E

Sample and source description: Corn 3E

Sample date: 10/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,100.00	600.00	5,400.00		6.54
DL	100.00	100.00	100.00		0.01

3F - 11/28/2022: Triticale, soft dough

Triticale 3F

Sample and source description: Triticale 3F

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 55.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,000.00	6,500.00		6.96
DL	100.00	100.00	100.00		0.01

3F - 06/26/2023: Corn, silage

Corn 3F

Sample and source description: Corn 3F

Sample date: 10/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,300.00	800.00	5,000.00		6.90
DL	100.00	100.00	100.00		0.01

3G - 11/01/2020: Alfalfa, hay

Alfalfa 3G

Sample and source description: Alfalfa 3G

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,800.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

3H - 11/24/2022: Triticale, soft dough

Triticale 3H

Sample and source description: Triticale 3H

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,700.00	800.00	5,700.00		7.74
DL	100.00	100.00	100.00		0.01

3H - 06/22/2023: Corn, silage

Corn 3H

Sample and source description: Corn 3H

Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	700.00	4,100.00		5.19
DL	100.00	100.00	100.00		0.01

4E - 11/22/2022: Triticale, soft dough

Triticale 4E&F

Sample and source description: Triticale 4E&F

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 57.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,700.00	1,200.00	9,700.00		8.18
DL	100.00	100.00	100.00		0.01

4E - 06/21/2023: Corn, silage

Corn 4EF

Sample and source description: Corn 4EF

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	600.00	5,300.00		6.47
DL	100.00	100.00	100.00		0.01

4F - 11/23/2022: Triticale, soft dough

Triticale 4E&F

Sample and source description: Triticale 4E&F

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 57.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,700.00	1,200.00	9,700.00		8.18
DL	100.00	100.00	100.00		0.01

4F - 06/20/2023: Corn, silage

Corn 4F

Sample and source description: Corn 4F

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	600.00	5,300.00		6.47
DL	100.00	100.00	100.00		0.01

9A - 10/28/2022: Triticale, soft dough

Triticale 9A

Sample and source description: Triticale 9A

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 57.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	1,100.00	7,500.00		8.39
DL	100.00	100.00	100.00		0.01

9A - 06/07/2023: Corn, silage

Corn 9A

Sample and source description: Corn 9A

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	900.00	5,700.00		7.67
DL	100.00	100.00	100.00		0.01

9B - 11/01/2019: Alfalfa, hay

Alfalfa 9B

Sample and source description: Alfalfa 9B

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,200.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

9C - 11/02/2021: Alfalfa, hay

Alfalfa 9C

Sample and source description: Alfalfa 9C

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,400.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

9D - 11/01/2022: Alfalfa, hay

Alfalfa 9D

Sample and source description: Alfalfa 9D

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,300.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

9E - 02/01/2022: Alfalfa, hay

Alfalfa 9E

Sample and source description: Alfalfa 9E

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,600.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

9F - 10/20/2022: Triticale, soft dough

Triticale 9F

Sample and source description: Triticale 9F

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,500.00	1,200.00	8,900.00		9.82
DL	100.00	100.00	100.00		0.01

9F - 06/06/2023: Corn, silage

Corn 9F

Sample and source description: Corn 9F

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	800.00	6,600.00		7.03
DL	100.00	100.00	100.00		0.01

9G - 11/01/2020: Alfalfa, hay

Alfalfa 9G

Sample and source description: Alfalfa 9G

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,700.00	2,700.00	21,000.00		
DL	100.00	100.00	100.00		

9H - 10/19/2022: Triticale, soft dough

Triticale 9H

Sample and source description: Triticale 9H

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 59.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,400.00	1,600.00	9,100.00		9.17
DL	100.00	100.00	100.00		0.01

9H - 06/05/2023: Corn, silage

Corn 9H

Sample and source description: Corn 9H

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,900.00	900.00	6,700.00		8.12
DL	100.00	100.00	100.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

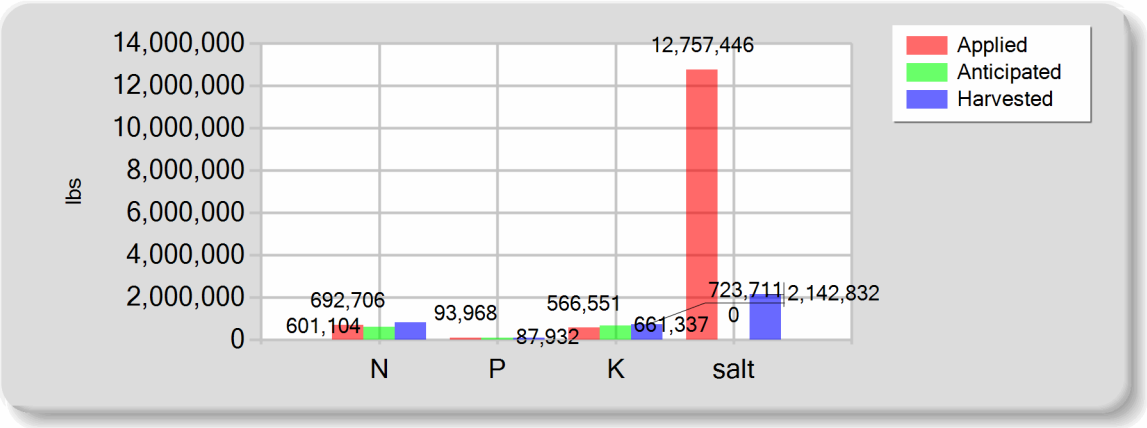
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

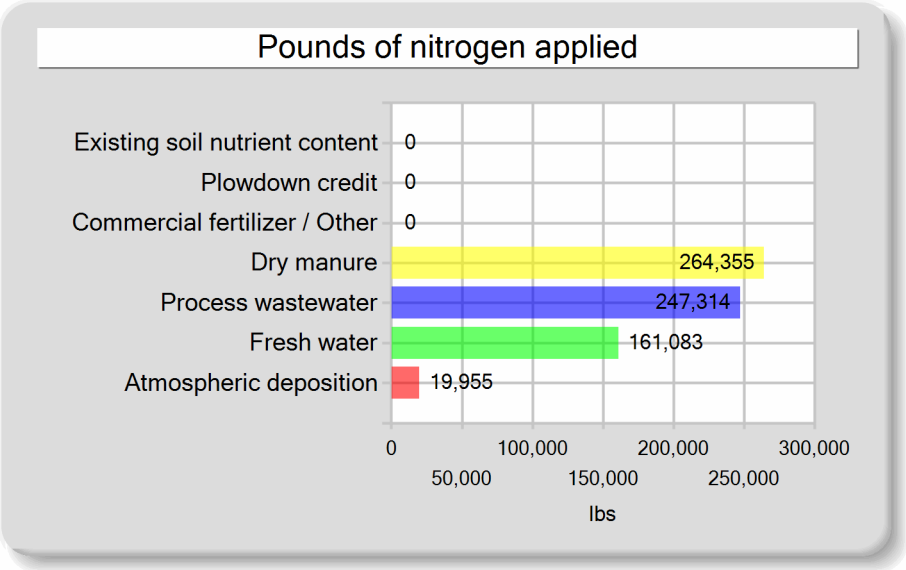
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

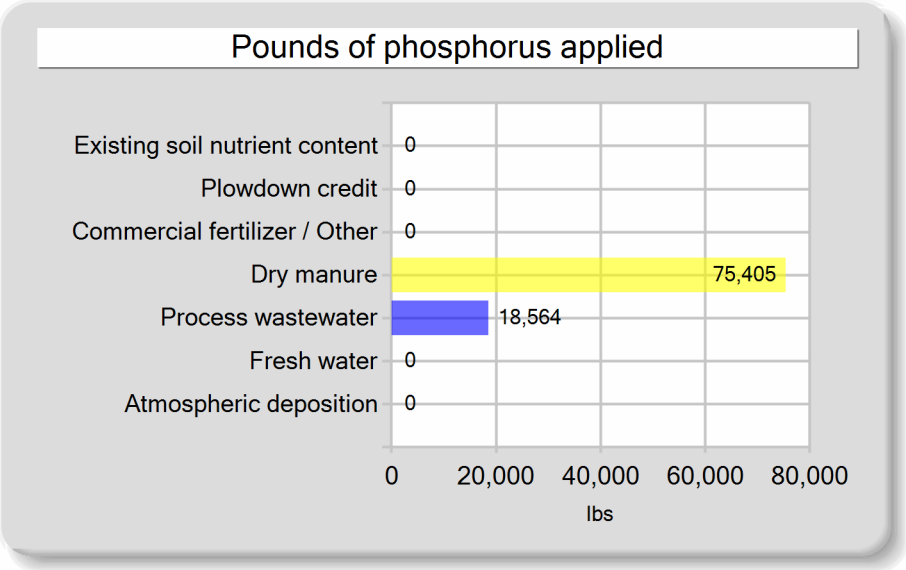
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	264,354.52	75,404.71	309,683.82	3,259,309.87
Process wastewater	247,313.91	18,563.57	256,867.01	2,669,340.10
Fresh water	161,083.14	0.00	0.00	6,828,795.87
Atmospheric deposition	19,954.67	0.00	0.00	0.00
Total nutrients applied	692,706.23	93,968.29	566,550.83	12,757,445.84
Anticipated crop nutrient removal	601,104.00	87,932.40	661,336.80	0.00
Actual crop nutrient removal	825,266.62	98,729.65	723,710.82	2,142,832.32
Nutrient balance	-132,560.40	-4,761.36	-157,159.99	10,614,613.52
Applied to removed ratio	0.84	0.95	0.78	5.95

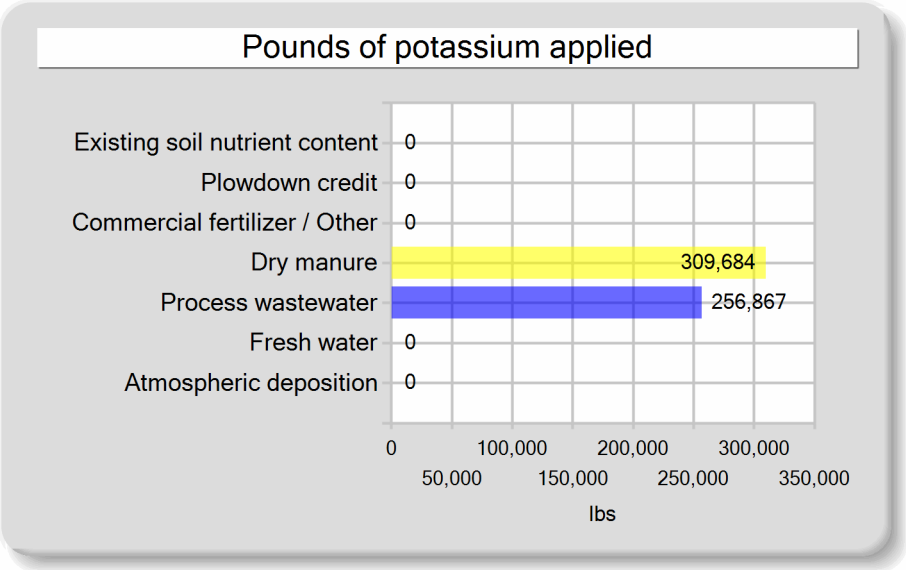
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

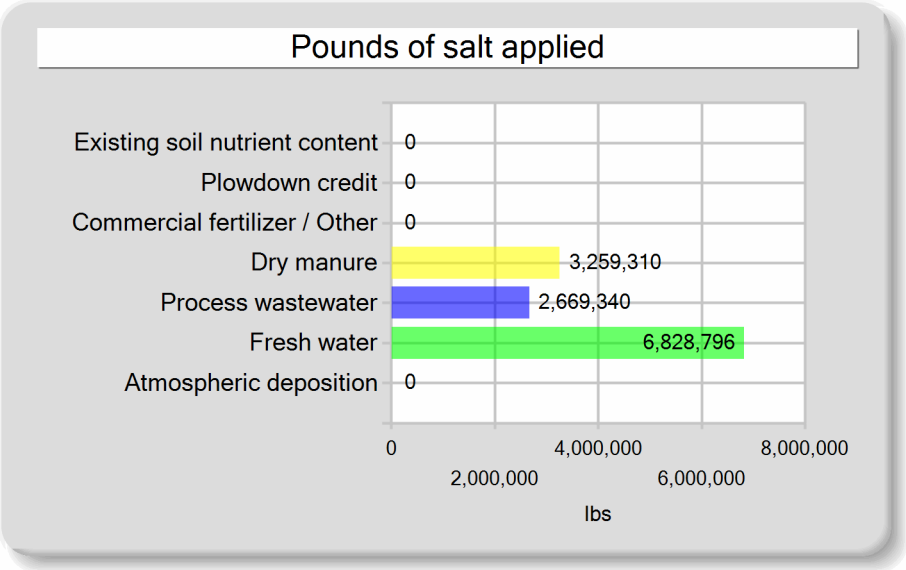


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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 samples were missed in 2023 due to confusion with the 2023 published date of the 2022 samples that were submitted in December 2022. Samples were taken in February 2024 to address the 2023 requirement. An additional set of samples will be taken in the summer of 2024 to meet the 2024 sampling requirement.

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.

Jonathon De Groot (Jun 19, 2024 10:55 CDT)	Jonathon De Groot (Jun 19, 2024 10:55 CDT)
SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Jonathon Cornelis DeGroot	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
06/19/2024	06/19/24
DATE	DATE

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

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

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

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

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

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

DELLAVALLE™
LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
24B0187-01	Ag Well 1	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-02	Ag Well 2	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-03	Ag Well 3	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-04	Dom. Well 4	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-05	Ag Well 5	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-06	Ag Well 8	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-07	Ag Well 11	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-08	Ag Well 12	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-09	Ag Well 13	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-10	Ag Well 14	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-11	Ag Well 15	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-12	Ag Well 17	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-13	Dom. Well 18	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-14	Ag Well 19	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-15	Ag Well 20	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-16	Ag Well 21	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-17	Ag Well 22	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-18	Dom. Well 23	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-19	Ag Well 24	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-20	Dom. Well 25	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-21	Dom. Well 26	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-22	Dom. Well 27	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-23	Dom. Well 28	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-24	Dom. Well 29	Ground Water	Jonathon DeGroot		02/07/2024 11:00
24B0187-25	Ag Well 35	Ground Water	Jonathon DeGroot		02/07/2024 11:00

Default Cooler Temperature on Receipt °C: 11.8
Containers Intact
COC/Labels Agree

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LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results

Sample: Ag Well 1
24B0187-01 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**279**	mg/L	10.0	1		02/12/24 13:15	SM 2320 B		BFB0194
Calcium	**47.5**	mg/L	0.1	1		02/16/24 13:18	EPA 200.7		BFB0281
Chloride	**39.2**	mg/L	0.2	1	250	02/07/24 19:39	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 13:15	SM 2320 B		BFB0194
Electrical Conductivity	**0.82**	mmhos/cm	0.01	1		02/12/24 13:15	SM 2510 B		BFB0194
Electrical Conductivity umhos	**820**	umhos/cm	10.0	1		02/12/24 13:15	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**279**	mg/L	5.00	1		02/12/24 13:15	SM 2320 B		BFB0194
Potassium	**7.66**	mg/L	0.500	1		02/16/24 13:18	EPA 200.7		BFB0281
Magnesium	**21.6**	mg/L	0.1	1		02/16/24 13:18	EPA 200.7		BFB0281
Sodium	**88**	mg/L	1	1		02/16/24 13:18	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**11.7**	mg/L	0.1	1	10	02/07/24 19:39	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 13:15	SM 2320 B		BFB0194
pH	**7.6**	units	1.0	1		02/12/24 13:15	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 13:15	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**32.1**	mg/L	0.5	1	250	02/07/24 19:39	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**520**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 2
24B0187-02 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**255**	mg/L	10.0	1		02/12/24 13:22	SM 2320 B		BFB0194
Calcium	**42.5**	mg/L	0.1	1		02/16/24 13:20	EPA 200.7		BFB0281
Chloride	**34.4**	mg/L	0.2	1	250	02/07/24 19:59	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 13:22	SM 2320 B		BFB0194
Electrical Conductivity	**0.72**	mmhos/cm	0.01	1		02/12/24 13:22	SM 2510 B		BFB0194
Electrical Conductivity umhos	**717**	umhos/cm	10.0	1		02/12/24 13:22	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**255**	mg/L	5.00	1		02/12/24 13:22	SM 2320 B		BFB0194
Potassium	**6.85**	mg/L	0.500	1		02/16/24 13:20	EPA 200.7		BFB0281
Magnesium	**19.3**	mg/L	0.1	1		02/16/24 13:20	EPA 200.7		BFB0281
Sodium	**76**	mg/L	1	1		02/16/24 13:20	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**10.1**	mg/L	0.1	1	10	02/07/24 19:59	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 13:22	SM 2320 B		BFB0194
pH	**7.4**	units	1.0	1		02/12/24 13:22	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 13:22	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**28.5**	mg/L	0.5	1	250	02/07/24 19:59	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**500**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 3
24B0187-03 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**256**	mg/L	10.0	1		02/12/24 13:29	SM 2320 B		BFB0194
Calcium	**42.9**	mg/L	0.1	1		02/16/24 13:21	EPA 200.7		BFB0281
Chloride	**35.9**	mg/L	0.2	1	250	02/07/24 20:18	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 13:29	SM 2320 B		BFB0194
Electrical Conductivity	**0.74**	mmhos/cm	0.01	1		02/12/24 13:29	SM 2510 B		BFB0194
Electrical Conductivity umhos	**744**	umhos/cm	10.0	1		02/12/24 13:29	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**256**	mg/L	5.00	1		02/12/24 13:29	SM 2320 B		BFB0194
Potassium	**7.07**	mg/L	0.500	1		02/16/24 13:21	EPA 200.7		BFB0281
Magnesium	**19.5**	mg/L	0.1	1		02/16/24 13:21	EPA 200.7		BFB0281
Sodium	**80**	mg/L	1	1		02/16/24 13:21	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**10.4**	mg/L	0.1	1	10	02/07/24 20:18	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 13:29	SM 2320 B		BFB0194
pH	**7.5**	units	1.0	1		02/12/24 13:29	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 13:29	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**29.7**	mg/L	0.5	1	250	02/07/24 20:18	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**470**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 4
24B0187-04 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**246**	mg/L	10.0	1		02/12/24 13:36	SM 2320 B		BFB0194
Calcium	**42.3**	mg/L	0.1	1		02/16/24 13:22	EPA 200.7		BFB0281
Chloride	**34.4**	mg/L	0.2	1	250	02/07/24 20:38	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 13:36	SM 2320 B		BFB0194
Electrical Conductivity	**0.71**	mmhos/cm	0.01	1		02/12/24 13:36	SM 2510 B		BFB0194
Electrical Conductivity umhos	**706**	umhos/cm	10.0	1		02/12/24 13:36	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**246**	mg/L	5.00	1		02/12/24 13:36	SM 2320 B		BFB0194
Potassium	**6.85**	mg/L	0.500	1		02/16/24 13:22	EPA 200.7		BFB0281
Magnesium	**19.2**	mg/L	0.1	1		02/16/24 13:22	EPA 200.7		BFB0281
Sodium	**79**	mg/L	1	1		02/16/24 13:22	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**10.2**	mg/L	0.1	1	10	02/07/24 20:38	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 13:36	SM 2320 B		BFB0194
pH	**7.6**	units	1.0	1		02/12/24 13:36	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 13:36	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**28.3**	mg/L	0.5	1	250	02/07/24 20:38	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**470**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 5
24B0187-05 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**275**	mg/L	10.0	1		02/12/24 13:42	SM 2320 B		BFB0194
Calcium	**50.5**	mg/L	0.1	1		02/16/24 13:24	EPA 200.7		BFB0281
Chloride	**38.0**	mg/L	0.2	1	250	02/07/24 20:57	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 13:42	SM 2320 B		BFB0194
Electrical Conductivity	**0.78**	mmhos/cm	0.01	1		02/12/24 13:42	SM 2510 B		BFB0194
Electrical Conductivity umhos	**785**	umhos/cm	10.0	1		02/12/24 13:42	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**275**	mg/L	5.00	1		02/12/24 13:42	SM 2320 B		BFB0194
Potassium	**8.23**	mg/L	0.500	1		02/16/24 13:24	EPA 200.7		BFB0281
Magnesium	**23.0**	mg/L	0.1	1		02/16/24 13:24	EPA 200.7		BFB0281
Sodium	**92**	mg/L	1	1		02/16/24 13:24	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**11.3**	mg/L	0.1	1	10	02/07/24 20:57	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 13:42	SM 2320 B		BFB0194
pH	**7.7**	units	1.0	1		02/12/24 13:42	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 13:42	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**31.1**	mg/L	0.5	1	250	02/07/24 20:57	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**520**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 8
24B0187-06 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**253**	mg/L	10.0	1		02/12/24 13:49	SM 2320 B		BFB0194
Calcium	**44.8**	mg/L	0.1	1		02/16/24 13:25	EPA 200.7		BFB0281
Chloride	**34.8**	mg/L	0.2	1	250	02/07/24 21:17	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 13:49	SM 2320 B		BFB0194
Electrical Conductivity	**0.72**	mmhos/cm	0.01	1		02/12/24 13:49	SM 2510 B		BFB0194
Electrical Conductivity umhos	**715**	umhos/cm	10.0	1		02/12/24 13:49	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**253**	mg/L	5.00	1		02/12/24 13:49	SM 2320 B		BFB0194
Potassium	**7.34**	mg/L	0.500	1		02/16/24 13:25	EPA 200.7		BFB0281
Magnesium	**20.3**	mg/L	0.1	1		02/16/24 13:25	EPA 200.7		BFB0281
Sodium	**82**	mg/L	1	1		02/16/24 13:25	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**10.4**	mg/L	0.1	1	10	02/07/24 21:17	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 13:49	SM 2320 B		BFB0194
pH	**7.7**	units	1.0	1		02/12/24 13:49	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 13:49	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**28.6**	mg/L	0.5	1	250	02/07/24 21:17	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**450**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 11
24B0187-07 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**262**	mg/L	10.0	1		02/12/24 13:56	SM 2320 B		BFB0194
Calcium	**46.6**	mg/L	0.1	1		02/16/24 13:27	EPA 200.7		BFB0281
Chloride	**36.6**	mg/L	0.2	1	250	02/07/24 21:37	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 13:56	SM 2320 B		BFB0194
Electrical Conductivity	**0.74**	mmhos/cm	0.01	1		02/12/24 13:56	SM 2510 B		BFB0194
Electrical Conductivity umhos	**743**	umhos/cm	10.0	1		02/12/24 13:56	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**262**	mg/L	5.00	1		02/12/24 13:56	SM 2320 B		BFB0194
Potassium	**7.62**	mg/L	0.500	1		02/16/24 13:27	EPA 200.7		BFB0281
Magnesium	**21.1**	mg/L	0.1	1		02/16/24 13:27	EPA 200.7		BFB0281
Sodium	**87**	mg/L	1	1		02/16/24 13:27	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**11.0**	mg/L	0.1	1	10	02/07/24 21:37	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 13:56	SM 2320 B		BFB0194
pH	**7.7**	units	1.0	1		02/12/24 13:56	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 13:56	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**30.2**	mg/L	0.5	1	250	02/07/24 21:37	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**500**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 12
24B0187-08 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**230**	mg/L	10.0	1		02/12/24 14:02	SM 2320 B		BFB0194
Calcium	**51.0**	mg/L	0.1	1		02/16/24 13:36	EPA 200.7		BFB0281
Chloride	**27.3**	mg/L	0.2	1	250	02/07/24 21:56	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 14:02	SM 2320 B		BFB0194
Electrical Conductivity	**0.61**	mmhos/cm	0.01	1		02/12/24 14:02	SM 2510 B		BFB0194
Electrical Conductivity umhos	**607**	umhos/cm	10.0	1		02/12/24 14:02	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**230**	mg/L	5.00	1		02/12/24 14:02	SM 2320 B		BFB0194
Potassium	**6.59**	mg/L	0.500	1		02/16/24 13:36	EPA 200.7		BFB0281
Magnesium	**19.8**	mg/L	0.1	1		02/16/24 13:36	EPA 200.7		BFB0281
Sodium	**44**	mg/L	1	1		02/16/24 13:36	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**7.7**	mg/L	0.1	1	10	02/07/24 21:56	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 14:02	SM 2320 B		BFB0194
pH	**7.8**	units	1.0	1		02/12/24 14:02	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 14:02	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**18.5**	mg/L	0.5	1	250	02/07/24 21:56	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**380**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 13
24B0187-09 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**223**	mg/L	10.0	1		02/12/24 14:22	SM 2320 B		BFB0194
Calcium	**48.2**	mg/L	0.1	1		02/16/24 13:37	EPA 200.7		BFB0281
Chloride	**26.9**	mg/L	0.2	1	250	02/07/24 22:16	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 14:22	SM 2320 B		BFB0194
Electrical Conductivity	**0.59**	mmhos/cm	0.01	1		02/12/24 14:22	SM 2510 B		BFB0194
Electrical Conductivity umhos	**593**	umhos/cm	10.0	1		02/12/24 14:22	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**223**	mg/L	5.00	1		02/12/24 14:22	SM 2320 B		BFB0194
Potassium	**6.23**	mg/L	0.500	1		02/16/24 13:37	EPA 200.7		BFB0281
Magnesium	**18.7**	mg/L	0.1	1		02/16/24 13:37	EPA 200.7		BFB0281
Sodium	**41**	mg/L	1	1		02/16/24 13:37	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**7.6**	mg/L	0.1	1	10	02/07/24 22:16	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 14:22	SM 2320 B		BFB0194
pH	**7.8**	units	1.0	1		02/12/24 14:22	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 14:22	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**18.3**	mg/L	0.5	1	250	02/07/24 22:16	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**400**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 14
24B0187-10 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**308**	mg/L	10.0	1		02/12/24 14:29	SM 2320 B		BFB0194
Calcium	**83.3**	mg/L	0.1	1		02/16/24 13:38	EPA 200.7		BFB0281
Chloride	**66.0**	mg/L	0.2	1	250	02/07/24 22:36	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 14:29	SM 2320 B		BFB0194
Electrical Conductivity	**0.96**	mmhos/cm	0.01	1		02/12/24 14:29	SM 2510 B		BFB0194
Electrical Conductivity umhos	**956**	umhos/cm	10.0	1		02/12/24 14:29	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**308**	mg/L	5.00	1		02/12/24 14:29	SM 2320 B		BFB0194
Potassium	**10.6**	mg/L	0.500	1		02/16/24 13:38	EPA 200.7		BFB0281
Magnesium	**28.4**	mg/L	0.1	1		02/16/24 13:38	EPA 200.7		BFB0281
Sodium	**73**	mg/L	1	1		02/16/24 13:38	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**11.8**	mg/L	0.1	1	10	02/07/24 22:36	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 14:29	SM 2320 B		BFB0194
pH	**7.8**	units	1.0	1		02/12/24 14:29	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 14:29	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**40.1**	mg/L	0.5	1	250	02/07/24 22:36	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**610**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 15
24B0187-11 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**239**	mg/L	10.0	1		02/12/24 14:36	SM 2320 B		BFB0194
Calcium	**67.8**	mg/L	0.1	1		02/16/24 13:51	EPA 200.7		BFB0281
Chloride	**45.4**	mg/L	0.2	1	250	02/08/24 01:14	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 14:36	SM 2320 B		BFB0194
Electrical Conductivity	**0.78**	mmhos/cm	0.01	1		02/12/24 14:36	SM 2510 B		BFB0194
Electrical Conductivity umhos	**777**	umhos/cm	10.0	1		02/12/24 14:36	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**239**	mg/L	5.00	1		02/12/24 14:36	SM 2320 B		BFB0194
Potassium	**9.88**	mg/L	0.500	1		02/16/24 13:51	EPA 200.7		BFB0281
Magnesium	**17.1**	mg/L	0.1	1		02/16/24 13:51	EPA 200.7		BFB0281
Sodium	**64**	mg/L	1	1		02/16/24 13:51	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**15.4**	mg/L	0.1	1	10	02/08/24 01:14	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 14:36	SM 2320 B		BFB0194
pH	**7.9**	units	1.0	1		02/12/24 14:36	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 14:36	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**41.3**	mg/L	0.5	1	250	02/08/24 01:14	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**520**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 17
24B0187-12 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**183**	mg/L	10.0	1		02/12/24 14:42	SM 2320 B		BFB0194
Calcium	**55.5**	mg/L	0.1	1		02/16/24 13:53	EPA 200.7		BFB0281
Chloride	**35.7**	mg/L	0.2	1	250	02/08/24 01:34	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 14:42	SM 2320 B		BFB0194
Electrical Conductivity	**0.63**	mmhos/cm	0.01	1		02/12/24 14:42	SM 2510 B		BFB0194
Electrical Conductivity umhos	**626**	umhos/cm	10.0	1		02/12/24 14:42	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**183**	mg/L	5.00	1		02/12/24 14:42	SM 2320 B		BFB0194
Potassium	**8.00**	mg/L	0.500	1		02/16/24 13:53	EPA 200.7		BFB0281
Magnesium	**13.8**	mg/L	0.1	1		02/16/24 13:53	EPA 200.7		BFB0281
Sodium	**54**	mg/L	1	1		02/16/24 13:53	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**12.0**	mg/L	0.1	1	10	02/08/24 01:34	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 14:42	SM 2320 B		BFB0194
pH	**7.9**	units	1.0	1		02/12/24 14:42	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 14:42	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**32.0**	mg/L	0.5	1	250	02/08/24 01:34	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**430**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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John de Groot & Son
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Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 18
24B0187-13 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**281**	mg/L	10.0	1		02/12/24 14:47	SM 2320 B		BFB0194
Calcium	**85.2**	mg/L	0.1	1		02/16/24 13:54	EPA 200.7		BFB0281
Chloride	**54.7**	mg/L	0.2	1	250	02/08/24 01:53	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 14:47	SM 2320 B		BFB0194
Electrical Conductivity	**0.93**	mmhos/cm	0.01	1		02/12/24 14:47	SM 2510 B		BFB0194
Electrical Conductivity umhos	**930**	umhos/cm	10.0	1		02/12/24 14:47	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**281**	mg/L	5.00	1		02/12/24 14:47	SM 2320 B		BFB0194
Potassium	**12.0**	mg/L	0.500	1		02/16/24 13:54	EPA 200.7		BFB0281
Magnesium	**21.1**	mg/L	0.1	1		02/16/24 13:54	EPA 200.7		BFB0281
Sodium	**76**	mg/L	1	1		02/16/24 13:54	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**18.5**	mg/L	0.1	1	10	02/08/24 01:53	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 14:47	SM 2320 B		BFB0194
pH	**7.9**	units	1.0	1		02/12/24 14:47	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 14:47	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**49.5**	mg/L	0.5	1	250	02/08/24 01:53	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**620**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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6105 W Lincoln
Fresno, CA 93706

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Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 19
24B0187-14 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**294**	mg/L	10.0	1		02/12/24 14:54	SM 2320 B		BFB0194
Calcium	**86.6**	mg/L	0.1	1		02/16/24 13:56	EPA 200.7		BFB0281
Chloride	**55.6**	mg/L	0.2	1	250	02/08/24 02:13	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 14:54	SM 2320 B		BFB0194
Electrical Conductivity	**0.93**	mmhos/cm	0.01	1		02/12/24 14:54	SM 2510 B		BFB0194
Electrical Conductivity umhos	**935**	umhos/cm	10.0	1		02/12/24 14:54	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**294**	mg/L	5.00	1		02/12/24 14:54	SM 2320 B		BFB0194
Potassium	**12.0**	mg/L	0.500	1		02/16/24 13:56	EPA 200.7		BFB0281
Magnesium	**21.5**	mg/L	0.1	1		02/16/24 13:56	EPA 200.7		BFB0281
Sodium	**80**	mg/L	1	1		02/16/24 13:56	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**18.8**	mg/L	0.1	1	10	02/08/24 02:13	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 14:54	SM 2320 B		BFB0194
pH	**7.9**	units	1.0	1		02/12/24 14:54	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 14:54	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**50.4**	mg/L	0.5	1	250	02/08/24 02:13	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**620**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 20
24B0187-15 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**251**	mg/L	10.0	1		02/12/24 15:01	SM 2320 B		BFB0194
Calcium	**73.5**	mg/L	0.1	1		02/16/24 13:57	EPA 200.7		BFB0281
Chloride	**48.2**	mg/L	0.2	1	250	02/08/24 02:33	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:01	SM 2320 B		BFB0194
Electrical Conductivity	**0.83**	mmhos/cm	0.01	1		02/12/24 15:01	SM 2510 B		BFB0194
Electrical Conductivity umhos	**827**	umhos/cm	10.0	1		02/12/24 15:01	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**251**	mg/L	5.00	1		02/12/24 15:01	SM 2320 B		BFB0194
Potassium	**10.4**	mg/L	0.500	1		02/16/24 13:57	EPA 200.7		BFB0281
Magnesium	**18.3**	mg/L	0.1	1		02/16/24 13:57	EPA 200.7		BFB0281
Sodium	**68**	mg/L	1	1		02/16/24 13:57	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**16.2**	mg/L	0.1	1	10	02/08/24 02:33	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:01	SM 2320 B		BFB0194
pH	**7.9**	units	1.0	1		02/12/24 15:01	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 15:01	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**43.5**	mg/L	0.5	1	250	02/08/24 02:33	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**590**	mg/L	10.0	1		02/09/24 15:16	SM 2540 C		BFB0147

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 21
24B0187-16 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**347**	mg/L	10.0	1		02/12/24 15:07	SM 2320 B		BFB0194
Calcium	**90.8**	mg/L	0.1	1		02/16/24 13:58	EPA 200.7		BFB0281
Chloride	**72.5**	mg/L	0.2	1	250	02/08/24 02:52	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:07	SM 2320 B		BFB0194
Electrical Conductivity	**1.03**	mmhos/cm	0.01	1		02/12/24 15:07	SM 2510 B		BFB0194
Electrical Conductivity umhos	**1030**	umhos/cm	10.0	1		02/12/24 15:07	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**347**	mg/L	5.00	1		02/12/24 15:07	SM 2320 B		BFB0194
Potassium	**11.4**	mg/L	0.500	1		02/16/24 13:58	EPA 200.7		BFB0281
Magnesium	**30.9**	mg/L	0.1	1		02/16/24 13:58	EPA 200.7		BFB0281
Sodium	**78**	mg/L	1	1		02/16/24 13:58	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**13.0**	mg/L	0.1	1	10	02/08/24 02:52	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:07	SM 2320 B		BFB0194
pH	**7.8**	units	1.0	1		02/12/24 15:07	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 15:07	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**43.7**	mg/L	0.5	1	250	02/08/24 02:52	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**660**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

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Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 22
24B0187-17 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**380**	mg/L	10.0	1		02/12/24 15:15	SM 2320 B		BFB0194
Calcium	**102**	mg/L	0.1	1		02/16/24 14:00	EPA 200.7		BFB0281
Chloride	**83.1**	mg/L	0.2	1	250	02/08/24 03:12	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:15	SM 2320 B		BFB0194
Electrical Conductivity	**1.16**	mmhos/cm	0.01	1		02/12/24 15:15	SM 2510 B		BFB0194
Electrical Conductivity umhos	**1160**	umhos/cm	10.0	1		02/12/24 15:15	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**380**	mg/L	5.00	1		02/12/24 15:15	SM 2320 B		BFB0194
Potassium	**14.8**	mg/L	0.500	1		02/16/24 14:00	EPA 200.7		BFB0281
Magnesium	**34.9**	mg/L	0.1	1		02/16/24 14:00	EPA 200.7		BFB0281
Sodium	**90**	mg/L	1	1		02/16/24 14:00	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**14.8**	mg/L	0.1	1	10	02/08/24 03:12	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:15	SM 2320 B		BFB0194
pH	**7.8**	units	1.0	1		02/12/24 15:15	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 15:15	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**51.7**	mg/L	0.5	1	250	02/08/24 03:12	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**730**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 23
24B0187-18 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**168**	mg/L	10.0	1		02/12/24 15:23	SM 2320 B		BFB0194
Calcium	**38.2**	mg/L	0.1	1		02/16/24 14:01	EPA 200.7		BFB0281
Chloride	**20.2**	mg/L	0.2	1	250	02/08/24 03:32	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:23	SM 2320 B		BFB0194
Electrical Conductivity	**0.45**	mmhos/cm	0.01	1		02/12/24 15:23	SM 2510 B		BFB0194
Electrical Conductivity umhos	**448**	umhos/cm	10.0	1		02/12/24 15:23	SM 2510 B		BFB0194
Bicarbonate as CaCO3	**168**	mg/L	5.00	1		02/12/24 15:23	SM 2320 B		BFB0194
Potassium	**5.05**	mg/L	0.500	1		02/16/24 14:01	EPA 200.7		BFB0281
Magnesium	**14.8**	mg/L	0.1	1		02/16/24 14:01	EPA 200.7		BFB0281
Sodium	**33**	mg/L	1	1		02/16/24 14:01	EPA 200.7		BFB0281
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**5.6**	mg/L	0.1	1	10	02/08/24 03:32	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:23	SM 2320 B		BFB0194
pH	**7.9**	units	1.0	1		02/12/24 15:23	SM 4500-H+	H	BFB0194
Temperature	**25.0**	units	0.0	1		02/12/24 15:23	SM 4500-H+	H	BFB0194
Sulfate (SO4)	**13.6**	mg/L	0.5	1	250	02/08/24 03:32	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**275**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
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Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 24
24B0187-19 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**347**	mg/L	10.0	1		02/12/24 15:16	SM 2320 B		BFB0196
Calcium	**92.4**	mg/L	0.1	1		02/23/24 10:48	EPA 200.7		BFB0283
Chloride	**74.5**	mg/L	0.2	1	250	02/08/24 03:51	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:16	SM 2320 B		BFB0196
Electrical Conductivity	**1.02**	mmhos/cm	0.01	1		02/12/24 15:16	SM 2510 B		BFB0196
Electrical Conductivity umhos	**1020**	umhos/cm	10.0	1		02/12/24 15:16	SM 2510 B		BFB0196
Bicarbonate as CaCO3	**347**	mg/L	5.00	1		02/12/24 15:16	SM 2320 B		BFB0196
Potassium	**13.9**	mg/L	0.500	1		02/23/24 10:48	EPA 200.7		BFB0283
Magnesium	**32.0**	mg/L	0.1	1		02/23/24 10:48	EPA 200.7		BFB0283
Sodium	**79**	mg/L	1	1		02/23/24 10:48	EPA 200.7		BFB0283
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**13.1**	mg/L	0.1	1	10	02/08/24 03:51	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:16	SM 2320 B		BFB0196
pH	**7.4**	units	1.0	1		02/12/24 15:16	SM 4500-H+	H	BFB0196
Temperature	**25.0**	units	0.0	1		02/12/24 15:16	SM 4500-H+	H	BFB0196
Sulfate (SO4)	**46.3**	mg/L	0.5	1	250	02/08/24 03:51	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**600**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 25
24B0187-20 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**362**	mg/L	10.0	1		02/12/24 15:24	SM 2320 B		BFB0196
Calcium	**101**	mg/L	0.1	1		02/23/24 10:49	EPA 200.7		BFB0283
Chloride	**76.7**	mg/L	0.2	1	250	02/08/24 04:11	EPA 300.0		BFB0119
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:24	SM 2320 B		BFB0196
Electrical Conductivity	**1.08**	mmhos/cm	0.01	1		02/12/24 15:24	SM 2510 B		BFB0196
Electrical Conductivity umhos	**1080**	umhos/cm	10.0	1		02/12/24 15:24	SM 2510 B		BFB0196
Bicarbonate as CaCO3	**362**	mg/L	5.00	1		02/12/24 15:24	SM 2320 B		BFB0196
Potassium	**12.7**	mg/L	0.500	1		02/23/24 10:49	EPA 200.7		BFB0283
Magnesium	**34.4**	mg/L	0.1	1		02/23/24 10:49	EPA 200.7		BFB0283
Sodium	**87**	mg/L	1	1		02/23/24 10:49	EPA 200.7		BFB0283
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**13.8**	mg/L	0.1	1	10	02/08/24 04:11	EPA 300.0		BFB0119
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:24	SM 2320 B		BFB0196
pH	**7.6**	units	1.0	1		02/12/24 15:24	SM 4500-H+	H	BFB0196
Temperature	**25.0**	units	0.0	1		02/12/24 15:24	SM 4500-H+	H	BFB0196
Sulfate (SO4)	**46.4**	mg/L	0.5	1	250	02/08/24 04:11	EPA 300.0		BFB0119
Total Filterable Solids (TDS)	**690**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 26
24B0187-21 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**362**	mg/L	10.0	1		02/12/24 15:32	SM 2320 B		BFB0196
Calcium	**104**	mg/L	0.1	1		02/23/24 10:50	EPA 200.7		BFB0283
Chloride	**79.2**	mg/L	0.2	1	250	02/08/24 03:07	EPA 300.0		BFB0121
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:32	SM 2320 B		BFB0196
Electrical Conductivity	**1.09**	mmhos/cm	0.01	1		02/12/24 15:32	SM 2510 B		BFB0196
Electrical Conductivity umhos	**1090**	umhos/cm	10.0	1		02/12/24 15:32	SM 2510 B		BFB0196
Bicarbonate as CaCO3	**362**	mg/L	5.00	1		02/12/24 15:32	SM 2320 B		BFB0196
Potassium	**13.0**	mg/L	0.500	1		02/23/24 10:50	EPA 200.7		BFB0283
Magnesium	**35.3**	mg/L	0.1	1		02/23/24 10:50	EPA 200.7		BFB0283
Sodium	**87**	mg/L	1	1		02/23/24 10:50	EPA 200.7		BFB0283
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**13.4**	mg/L	0.1	1	10	02/08/24 03:07	EPA 300.0		BFB0121
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:32	SM 2320 B		BFB0196
pH	**7.6**	units	1.0	1		02/12/24 15:32	SM 4500-H+	H	BFB0196
Temperature	**25.0**	units	0.0	1		02/12/24 15:32	SM 4500-H+	H	BFB0196
Sulfate (SO4)	**46.1**	mg/L	0.5	1	250	02/08/24 03:07	EPA 300.0		BFB0121
Total Filterable Solids (TDS)	**660**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 27
24B0187-22 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**225**	mg/L	10.0	1		02/12/24 15:41	SM 2320 B		BFB0196
Calcium	**53.7**	mg/L	0.1	1		02/23/24 10:51	EPA 200.7		BFB0283
Chloride	**27.5**	mg/L	0.2	1	250	02/08/24 03:27	EPA 300.0		BFB0121
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:41	SM 2320 B		BFB0196
Electrical Conductivity	**0.60**	mmhos/cm	0.01	1		02/12/24 15:41	SM 2510 B		BFB0196
Electrical Conductivity umhos	**596**	umhos/cm	10.0	1		02/12/24 15:41	SM 2510 B		BFB0196
Bicarbonate as CaCO3	**225**	mg/L	5.00	1		02/12/24 15:41	SM 2320 B		BFB0196
Potassium	**6.82**	mg/L	0.500	1		02/23/24 10:51	EPA 200.7		BFB0283
Magnesium	**20.7**	mg/L	0.1	1		02/23/24 10:51	EPA 200.7		BFB0283
Sodium	**45**	mg/L	1	1		02/23/24 10:51	EPA 200.7		BFB0283
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**7.5**	mg/L	0.1	1	10	02/08/24 03:27	EPA 300.0		BFB0121
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:41	SM 2320 B		BFB0196
pH	**7.8**	units	1.0	1		02/12/24 15:41	SM 4500-H+	H	BFB0196
Temperature	**25.0**	units	0.0	1		02/12/24 15:41	SM 4500-H+	H	BFB0196
Sulfate (SO4)	**18.3**	mg/L	0.5	1	250	02/08/24 03:27	EPA 300.0		BFB0121
Total Filterable Solids (TDS)	**400**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 28
24B0187-23 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**205**	mg/L	10.0	1		02/12/24 15:47	SM 2320 B		BFB0196
Calcium	**47.3**	mg/L	0.1	1		02/23/24 10:51	EPA 200.7		BFB0283
Chloride	**24.7**	mg/L	0.2	1	250	02/08/24 03:46	EPA 300.0		BFB0121
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:47	SM 2320 B		BFB0196
Electrical Conductivity	**0.55**	mmhos/cm	0.01	1		02/12/24 15:47	SM 2510 B		BFB0196
Electrical Conductivity umhos	**547**	umhos/cm	10.0	1		02/12/24 15:47	SM 2510 B		BFB0196
Bicarbonate as CaCO3	**205**	mg/L	5.00	1		02/12/24 15:47	SM 2320 B		BFB0196
Potassium	**5.95**	mg/L	0.500	1		02/23/24 10:51	EPA 200.7		BFB0283
Magnesium	**18.3**	mg/L	0.1	1		02/23/24 10:51	EPA 200.7		BFB0283
Sodium	**40**	mg/L	1	1		02/23/24 10:51	EPA 200.7		BFB0283
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**6.7**	mg/L	0.1	1	10	02/08/24 03:46	EPA 300.0		BFB0121
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:47	SM 2320 B		BFB0196
pH	**7.8**	units	1.0	1		02/12/24 15:47	SM 4500-H+	H	BFB0196
Temperature	**25.0**	units	0.0	1		02/12/24 15:47	SM 4500-H+	H	BFB0196
Sulfate (SO4)	**16.4**	mg/L	0.5	1	250	02/08/24 03:46	EPA 300.0		BFB0121
Total Filterable Solids (TDS)	**360**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Dom. Well 29
24B0187-24 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**280**	mg/L	10.0	1		02/12/24 15:54	SM 2320 B		BFB0196
Calcium	**80.0**	mg/L	0.1	1		02/23/24 10:52	EPA 200.7		BFB0283
Chloride	**54.9**	mg/L	0.2	1	250	02/08/24 04:06	EPA 300.0		BFB0121
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 15:54	SM 2320 B		BFB0196
Electrical Conductivity	**0.92**	mmhos/cm	0.01	1		02/12/24 15:54	SM 2510 B		BFB0196
Electrical Conductivity umhos	**921**	umhos/cm	10.0	1		02/12/24 15:54	SM 2510 B		BFB0196
Bicarbonate as CaCO3	**280**	mg/L	5.00	1		02/12/24 15:54	SM 2320 B		BFB0196
Potassium	**11.1**	mg/L	0.500	1		02/23/24 10:52	EPA 200.7		BFB0283
Magnesium	**19.9**	mg/L	0.1	1		02/23/24 10:52	EPA 200.7		BFB0283
Sodium	**74**	mg/L	1	1		02/23/24 10:52	EPA 200.7		BFB0283
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**18.1**	mg/L	0.1	1	10	02/08/24 04:06	EPA 300.0		BFB0121
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 15:54	SM 2320 B		BFB0196
pH	**7.8**	units	1.0	1		02/12/24 15:54	SM 4500-H+	H	BFB0196
Temperature	**25.0**	units	0.0	1		02/12/24 15:54	SM 4500-H+	H	BFB0196
Sulfate (SO4)	**48.5**	mg/L	0.5	1	250	02/08/24 04:06	EPA 300.0		BFB0121
Total Filterable Solids (TDS)	**580**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Sample Results
(Continued)

Sample: Ag Well 35
24B0187-25 (Water)

Sampled: 2/7/2024 11:00
Sampled By: Jonathon DeGroot

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**252**	mg/L	10.0	1		02/12/24 16:01	SM 2320 B		BFB0196
Calcium	**81.4**	mg/L	0.1	1		02/23/24 10:53	EPA 200.7		BFB0283
Chloride	**49.7**	mg/L	0.2	1	250	02/08/24 04:13	EPA 300.0		BFB0120
Carbonate as CaCO3	ND	mg/L	1	1		02/12/24 16:01	SM 2320 B		BFB0196
Electrical Conductivity	**0.84**	mmhos/cm	0.01	1		02/12/24 16:01	SM 2510 B		BFB0196
Electrical Conductivity umhos	**844**	umhos/cm	10.0	1		02/12/24 16:01	SM 2510 B		BFB0196
Bicarbonate as CaCO3	**252**	mg/L	5.00	1		02/12/24 16:01	SM 2320 B		BFB0196
Potassium	**11.2**	mg/L	0.500	1		02/23/24 10:53	EPA 200.7		BFB0283
Magnesium	**20.1**	mg/L	0.1	1		02/23/24 10:53	EPA 200.7		BFB0283
Sodium	**72**	mg/L	1	1		02/23/24 10:53	EPA 200.7		BFB0283
Ammonia (as N)	*	mg/L	0.00	1		02/07/24 11:00	Field		BFB0124
Nitrate Nitrogen as NO3N	**16.5**	mg/L	0.1	1	10	02/08/24 04:13	EPA 300.0		BFB0120
Hydroxide as CaCO3	ND	mg/L	1.00	1		02/12/24 16:01	SM 2320 B		BFB0196
pH	**7.8**	units	1.0	1		02/12/24 16:01	SM 4500-H+	H	BFB0196
Temperature	**25.0**	units	0.0	1		02/12/24 16:01	SM 4500-H+	H	BFB0196
Sulfate (SO4)	**43.9**	mg/L	0.5	1	250	02/08/24 04:13	EPA 300.0		BFB0120
Total Filterable Solids (TDS)	**550**	mg/L	10.0	1		02/09/24 15:23	SM 2540 C		BFB0148

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0119										
Blank (BFB0119-BLK1)					Prepared & Analyzed: 2/7/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BFB0119-BLK2)					Prepared & Analyzed: 2/7/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BFB0119-BLK3)					Prepared & Analyzed: 2/8/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
LCS (BFB0119-BS1)					Prepared & Analyzed: 2/7/2024					
Chloride	5.1		0.2	mg/L	5.000		102	90-110		
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000		105	90-110		
Sulfate (SO4)	4.8		0.5	mg/L	5.000		95.8	90-110		
LCS (BFB0119-BS2)					Prepared & Analyzed: 2/8/2024					
Chloride	5.2		0.2	mg/L	5.000		103	90-110		
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000		106	90-110		
Sulfate (SO4)	4.8		0.5	mg/L	5.000		96.7	90-110		
Duplicate (BFB0119-DUP1)		**Source: 24B0187-08**			Prepared & Analyzed: 2/8/2024					
Chloride	27.3		0.2	mg/L		27.3			0.0183	10
Nitrate Nitrogen as NO3N	7.7		0.1	mg/L		7.7			0.248	10
Sulfate (SO4)	18.5		0.5	mg/L		18.5			0.0162	10
Duplicate (BFB0119-DUP2)		**Source: 24B0187-18**			Prepared & Analyzed: 2/8/2024					
Chloride	20.3		0.2	mg/L		20.2			0.158	10
Nitrate Nitrogen as NO3N	5.7		0.1	mg/L		5.6			0.0708	10
Sulfate (SO4)	13.7		0.5	mg/L		13.6			0.366	10
Matrix Spike (BFB0119-MS1)		**Source: 24B0187-08**			Prepared & Analyzed: 2/7/2024					
Chloride	32.4		0.2	mg/L	5.000	27.3	102	90-110		
Nitrate Nitrogen as NO3N	13.0		0.1	mg/L	5.000	7.7	106	90-110		
Sulfate (SO4)	23.8		0.5	mg/L	5.000	18.5	106	90-110		
Matrix Spike (BFB0119-MS2)		**Source: 24B0187-18**			Prepared & Analyzed: 2/8/2024					
Chloride	25.3		0.2	mg/L	5.000	20.2	101	90-110		
Nitrate Nitrogen as NO3N	10.9		0.1	mg/L	5.000	5.6	106	90-110		
Sulfate (SO4)	18.8		0.5	mg/L	5.000	13.6	104	90-110		

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

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Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0119 (Continued)										
Reference (BFB0119-SRM1)					Prepared & Analyzed: 2/7/2024					
Chloride	13.1			mg/L	12.50		105	90-110		
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		
Sulfate (SO4)	10.3			mg/L	10.00		103	90-110		
Reference (BFB0119-SRM2)					Prepared & Analyzed: 2/8/2024					
Chloride	13.2			mg/L	12.50		105	90-110		
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		
Sulfate (SO4)	10.4			mg/L	10.00		104	90-110		
Reference (BFB0119-SRM3)					Prepared & Analyzed: 2/8/2024					
Chloride	13.1			mg/L	12.50		105	90-110		
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		
Sulfate (SO4)	10.3			mg/L	10.00		103	90-110		

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Fresno, CA 93706

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0120										
Blank (BFB0120-BLK1)					Prepared & Analyzed: 2/7/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BFB0120-BLK2)					Prepared & Analyzed: 2/7/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BFB0120-BLK3)					Prepared & Analyzed: 2/8/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
LCS (BFB0120-BS1)					Prepared & Analyzed: 2/8/2024					
Chloride	5.2		0.2	mg/L	5.000		104	90-110		
Nitrate Nitrogen as NO3N	5.4		0.1	mg/L	5.000		108	90-110		
Sulfate (SO4)	4.9		0.5	mg/L	5.000		98.7	90-110		
LCS (BFB0120-BS2)					Prepared & Analyzed: 2/8/2024					
Chloride	5.1		0.2	mg/L	5.000		102	90-110		
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000		106	90-110		
Sulfate (SO4)	4.8		0.5	mg/L	5.000		96.1	90-110		
Duplicate (BFB0120-DUP1)		**Source: 24B0182-01**			Prepared & Analyzed: 2/8/2024					
Chloride	36.1		0.2	mg/L		34.3			5.03	10
Nitrate Nitrogen as NO3N	5.7		0.1	mg/L		5.5			4.51	10
Sulfate (SO4)	21.1		0.5	mg/L		20.3			4.00	10
Duplicate (BFB0120-DUP2)		**Source: 24B0166-01**			Prepared & Analyzed: 2/8/2024					
Chloride	38.1		0.2	mg/L		37.9			0.455	10
Nitrate Nitrogen as NO3N	0.06		0.1	mg/L		0.07			4.51	10
Sulfate (SO4)	0.4		0.5	mg/L		0.5			9.48	10
Matrix Spike (BFB0120-MS1)		**Source: 24B0182-01**			Prepared & Analyzed: 2/7/2024					
Chloride	40.6		0.2	mg/L	5.000	34.3	126	90-110		
Nitrate Nitrogen as NO3N	11.0		0.1	mg/L	5.000	5.5	111	90-110		
Sulfate (SO4)	26.2		0.5	mg/L	5.000	20.3	119	90-110		
Matrix Spike (BFB0120-MS2)		**Source: 24B0166-01**			Prepared & Analyzed: 2/8/2024					
Chloride	42.6		0.2	mg/L	5.000	37.9	93.2	90-110		
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000	0.07	102	90-110		
Sulfate (SO4)	5.0		0.5	mg/L	5.000	0.5	91.4	90-110		

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0120 (Continued)										
Reference (BFB0120-SRM1)					Prepared & Analyzed: 2/7/2024					
Chloride	13.1			mg/L	12.50		105	90-110		
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		
Sulfate (SO4)	10.3			mg/L	10.00		103	90-110		
Reference (BFB0120-SRM2)					Prepared & Analyzed: 2/8/2024					
Chloride	13.2			mg/L	12.50		105	90-110		
Nitrate Nitrogen as NO3N	10.5			mg/L	10.00		105	90-110		
Sulfate (SO4)	10.2			mg/L	10.00		102	90-110		
Reference (BFB0120-SRM3)					Prepared & Analyzed: 2/8/2024					
Chloride	13.1			mg/L	12.50		105	90-110		
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		
Sulfate (SO4)	10.1			mg/L	10.00		101	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0121										
Blank (BFB0121-BLK1)					Prepared & Analyzed: 2/7/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BFB0121-BLK2)					Prepared & Analyzed: 2/7/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BFB0121-BLK3)					Prepared & Analyzed: 2/8/2024					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
LCS (BFB0121-BS1)					Prepared & Analyzed: 2/7/2024					
Chloride	5.2		0.2	mg/L	5.000		104	90-110		
Nitrate Nitrogen as NO3N	5.4		0.1	mg/L	5.000		108	90-110		
Sulfate (SO4)	5.0		0.5	mg/L	5.000		100	90-110		
LCS (BFB0121-BS2)					Prepared & Analyzed: 2/8/2024					
Chloride	5.4		0.2	mg/L	5.000		109	90-110		
Nitrate Nitrogen as NO3N	5.6		0.1	mg/L	5.000		113	90-110		
Sulfate (SO4)	5.3		0.5	mg/L	5.000		105	90-110		
Duplicate (BFB0121-DUP1)		**Source: 24B0178-01**			Prepared & Analyzed: 2/8/2024					
Chloride	3.4		0.2	mg/L		3.2			3.46	10
Nitrate Nitrogen as NO3N	0.5		0.1	mg/L		0.5			1.72	10
Sulfate (SO4)	29.1		0.5	mg/L		28.6			1.62	10
Duplicate (BFB0121-DUP2)		**Source: 24B0199-01**			Prepared & Analyzed: 2/8/2024					
Chloride	4.8		0.2	mg/L		4.8			0.499	10
Nitrate Nitrogen as NO3N	0.04		0.1	mg/L		0.04			2.53	10
Sulfate (SO4)	1.3		0.5	mg/L		1.2			4.17	10
Matrix Spike (BFB0121-MS1)		**Source: 24B0178-01**			Prepared & Analyzed: 2/7/2024					
Chloride	8.4		0.2	mg/L	5.000	3.2	103	90-110		
Nitrate Nitrogen as NO3N	5.6		0.1	mg/L	5.000	0.5	102	90-110		
Sulfate (SO4)	33.7		0.5	mg/L	5.000	28.6	100	90-110		
Matrix Spike (BFB0121-MS2)		**Source: 24B0199-01**			Prepared & Analyzed: 2/8/2024					
Chloride	9.8		0.2	mg/L	5.000	4.8	100	90-110		
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000	0.04	99.9	90-110		
Sulfate (SO4)	6.0		0.5	mg/L	5.000	1.2	95.8	90-110		

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John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
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Ranch: Dairy WDR

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(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0121 (Continued)										
Reference (BFB0121-SRM1)					Prepared & Analyzed: 2/7/2024					
Chloride	12.5			mg/L	12.50		100	90-110		
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		100	90-110		
Sulfate (SO4)	9.6			mg/L	10.00		96.3	90-110		
Reference (BFB0121-SRM2)					Prepared & Analyzed: 2/8/2024					
Chloride	12.6			mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Sulfate (SO4)	9.7			mg/L	10.00		97.2	90-110		
Reference (BFB0121-SRM3)					Prepared & Analyzed: 2/8/2024					
Chloride	12.6			mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Sulfate (SO4)	9.7			mg/L	10.00		96.7	90-110		

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LABORATORY INC

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
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Submitted By:
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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0147										
Blank (BFB0147-BLK1)					Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BFB0147-BS1)					Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	27.5		10.0	mg/L	2000		1.38	0-200		
Duplicate (BFB0147-DUP1)		**Source: 24B0187-10**			Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	600		10.0	mg/L		610			1.65	10
Duplicate (BFB0147-DUP2)		**Source: 24B0187-13**			Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	610		10.0	mg/L		620			1.63	10
Reference (BFB0147-SRM1)					Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	400			mg/L	390.0		103	90-110		

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Fresno, CA 93706

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Submitted By:
Ranch: Dairy WDR

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0148										
Blank (BFB0148-BLK1)					Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BFB0148-BS1)					Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	25.0		10.0	mg/L	2000		1.25	0-200		
Duplicate (BFB0148-DUP1)			**Source: 24B0187-20**		Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	670		10.0	mg/L		690			2.94	10
Duplicate (BFB0148-DUP2)			**Source: 24B0216-01**		Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	500		10.0	mg/L		510			1.98	10
Reference (BFB0148-SRM1)					Prepared: 2/8/2024	Analyzed: 2/9/2024				
Total Filterable Solids (TDS)	380			mg/L	390.0		97.4	90-110		

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6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
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Submitted By:
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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0194										
Blank (BFB0194-BLK1)					Prepared: 2/9/2024 Analyzed: 2/12/2024					
Alkalinity as CaCO3	ND		10.0	mg/L						
Carbonate as CaCO3	ND		1	mg/L						
Hydroxide as CaCO3	ND		1.00	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.3		1.0	units						
Temperature	25.0		0.0	units						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BFB0194-BLK2)					Prepared: 2/9/2024 Analyzed: 2/12/2024					
Hydroxide as CaCO3	ND		1.00	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Alkalinity as CaCO3	ND		10.0	mg/L						
Carbonate as CaCO3	ND		1	mg/L						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BFB0194-BLK3)					Prepared: 2/9/2024 Analyzed: 2/12/2024					
Alkalinity as CaCO3	ND		10.0	mg/L						
pH	5.7		1.0	units						
Hydroxide as CaCO3	ND		1.00	mg/L						
Carbonate as CaCO3	ND		1	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BFB0194-DUP1)		**Source: 24B0187-03**			Prepared: 2/9/2024 Analyzed: 2/12/2024					
Electrical Conductivity	0.73		0.01	mmhos/cm		0.74			1.80	10
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
Alkalinity as CaCO3	259		10.0	mg/L		256			1.11	10
pH	7.7		1.0	units		7.5			2.90	1
Carbonate as CaCO3	ND		1	mg/L		ND				10
Electrical Conductivity umhos	731		10.0	umhos/cm		744			1.80	10
Duplicate (BFB0194-DUP2)		**Source: 24B0187-13**			Prepared: 2/9/2024 Analyzed: 2/12/2024					
Carbonate as CaCO3	ND		1	mg/L		ND				10
Alkalinity as CaCO3	284		10.0	mg/L		281			0.930	10
pH	7.9		1.0	units		7.9			0.506	1
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
Electrical Conductivity	0.95		0.01	mmhos/cm		0.93			1.87	10

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(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0194 (Continued)										
Duplicate (BFB0194-DUP2)			**Source: 24B0187-13**		Prepared: 2/9/2024	Analyzed: 2/12/2024				
Electrical Conductivity umhos	948		10.0	umhos/cm		930			1.87	10
Reference (BFB0194-SRM1)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
Alkalinity as CaCO3	130			mg/L	128.0		102	90-110		
Electrical Conductivity	432			umhos/cm	426.0		101	90-110		
Reference (BFB0194-SRM2)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
Alkalinity as CaCO3	130			mg/L	128.0		102	90-110		
Electrical Conductivity	436			umhos/cm	426.0		102	90-110		
Reference (BFB0194-SRM3)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
Electrical Conductivity	434			umhos/cm	426.0		102	90-110		
Alkalinity as CaCO3	128			mg/L	128.0		100	90-110		
Reference (BFB0194-SRM4)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BFB0194-SRM5)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BFB0194-SRM6)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BFB0194-SRM7)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	7.6			units	7.520		101	67021-101.32		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0196										
Blank (BFB0196-BLK1)					Prepared: 2/9/2024 Analyzed: 2/12/2024					
Carbonate as CaCO3	ND		1	mg/L						
Hydroxide as CaCO3	ND		1.00	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.1		1.0	units						
Alkalinity as CaCO3	ND		10.0	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Temperature	25.0		0.0	units						
Blank (BFB0196-BLK2)					Prepared: 2/9/2024 Analyzed: 2/12/2024					
pH	5.5		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Hydroxide as CaCO3	ND		1.00	mg/L						
Carbonate as CaCO3	ND		1	mg/L						
Alkalinity as CaCO3	ND		10.0	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Temperature	25.0		0.0	units						
Blank (BFB0196-BLK3)					Prepared: 2/9/2024 Analyzed: 2/12/2024					
Hydroxide as CaCO3	ND		1.00	mg/L						
pH	5.4		1.0	units						
Alkalinity as CaCO3	ND		10.0	mg/L						
Carbonate as CaCO3	ND		1	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Temperature	25.0		0.0	units						
Duplicate (BFB0196-DUP1)		**Source: 24B0187-23**			Prepared: 2/9/2024 Analyzed: 2/12/2024					
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
pH	7.8		1.0	units		7.8			0.384	1
Carbonate as CaCO3	ND		1	mg/L		ND				10
Alkalinity as CaCO3	206		10.0	mg/L		205			0.672	10
Electrical Conductivity	0.54		0.01	mmhos/cm		0.55			1.40	10
Electrical Conductivity umhos	539		10.0	umhos/cm		547			1.40	10
Duplicate (BFB0196-DUP2)		**Source: 24B0258-03**			Prepared: 2/9/2024 Analyzed: 2/12/2024					
Electrical Conductivity	0.20		0.01	mmhos/cm		0.21			3.17	10
pH	6.9		1.0	units		6.9			0.436	1
Alkalinity as CaCO3	79.8		10.0	mg/L		81.1			1.55	10
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
Carbonate as CaCO3	ND		1	mg/L		ND				10

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LABORATORY INC

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6105 W Lincoln
Fresno, CA 93706

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Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0196 (Continued)										
Duplicate (BFB0196-DUP2)			**Source: 24B0258-03**		Prepared: 2/9/2024	Analyzed: 2/12/2024				
Electrical Conductivity umhos	202		10.0	umhos/cm		208			3.17	10
Reference (BFB0196-SRM1)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
Electrical Conductivity	438			umhos/cm	426.0		103	90-110		
Alkalinity as CaCO3	126			mg/L	128.0		98.5	90-110		
Reference (BFB0196-SRM2)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
Electrical Conductivity	426			umhos/cm	426.0		99.9	90-110		
Alkalinity as CaCO3	127			mg/L	128.0		99.5	90-110		
Reference (BFB0196-SRM3)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
Electrical Conductivity	454			umhos/cm	426.0		106	90-110		
Alkalinity as CaCO3	128			mg/L	128.0		100	90-110		
Reference (BFB0196-SRM4)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	4.0			units	4.000		99.8	97.5-102.5		
Reference (BFB0196-SRM5)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BFB0196-SRM6)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	4.0			units	4.000		99.8	97.5-102.5		
Reference (BFB0196-SRM7)					Prepared: 2/9/2024	Analyzed: 2/12/2024				
pH	7.5			units	7.520		99.7	67021-101.32		

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DELLAVALLE™ LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0281										
Blank (BFB0281-BLK1)					Prepared: 2/14/2024 Analyzed: 2/16/2024					
Potassium	ND		0.500	mg/L						
Sodium	ND		1	mg/L						
Calcium	ND		0.1	mg/L						
Magnesium	ND		0.1	mg/L						
Blank (BFB0281-BLK2)					Prepared: 2/14/2024 Analyzed: 2/16/2024					
Sodium	ND		1	mg/L						
Calcium	ND		0.1	mg/L						
Potassium	ND		0.500	mg/L						
Magnesium	ND		0.1	mg/L						
LCS (BFB0281-BS1)					Prepared: 2/14/2024 Analyzed: 2/16/2024					
Calcium	38.0		0.1	mg/L	35.71		106	90-110		
Potassium	37.6		0.500	mg/L	35.71		105	90-110		
Sodium	38		1	mg/L	35.71		107	90-110		
Magnesium	38.6		0.1	mg/L	35.71		108	90-110		
LCS (BFB0281-BS2)					Prepared: 2/14/2024 Analyzed: 2/16/2024					
Sodium	38		1	mg/L	35.71		106	90-110		
Potassium	36.8		0.500	mg/L	35.71		103	90-110		
Calcium	37.5		0.1	mg/L	35.71		105	90-110		
Magnesium	38.2		0.1	mg/L	35.71		107	90-110		
Duplicate (BFB0281-DUP1)		**Source: 24B0187-01**			Prepared: 2/14/2024 Analyzed: 2/16/2024					
Potassium	7.70		0.500	mg/L		7.66			0.469	15
Calcium	48.4		0.1	mg/L		47.5			1.94	15
Sodium	89		1	mg/L		88			1.87	15
Magnesium	21.8		0.1	mg/L		21.6			1.02	15
Matrix Spike (BFB0281-MS1)		**Source: 24B0187-01**			Prepared: 2/14/2024 Analyzed: 2/16/2024					
Sodium	138		1	mg/L	35.71	88	140	90-110		
Calcium	94.3		0.1	mg/L	35.71	47.5	131	90-110		
Potassium	48.6		0.500	mg/L	35.71	7.66	115	90-110		
Magnesium	65.5		0.1	mg/L	35.71	21.6	123	90-110		
Matrix Spike (BFB0281-MS2)		**Source: 24B0187-11**			Prepared: 2/14/2024 Analyzed: 2/16/2024					
Sodium	108		1	mg/L	35.71	64	124	90-110		
Calcium	112		0.1	mg/L	35.71	67.8	123	90-110		
Potassium	48.5		0.500	mg/L	35.71	9.88	108	90-110		
Magnesium	57.8		0.1	mg/L	35.71	17.1	114	90-110		
Reference (BFB0281-SRM2)					Prepared: 2/14/2024 Analyzed: 2/16/2024					
Potassium	21.9			mg/L	21.00		104	90-110		

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DELLAVALLE™
LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0281 (Continued)										
Reference (BFB0281-SRM2)					Prepared: 2/14/2024	Analyzed: 2/16/2024				
Sodium	90			mg/L	84.10		107	90-110		
Reference (BFB0281-SRM3)					Prepared: 2/14/2024	Analyzed: 2/16/2024				
Calcium	47.8			mg/L	45.90		104	90-110		
Magnesium	37.6			mg/L	35.60		106	90-110		

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DELLAVALLE™ LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0283										
Blank (BFB0283-BLK1)					Prepared: 2/14/2024 Analyzed: 2/23/2024					
Potassium	ND		0.500	mg/L						
Calcium	ND		0.1	mg/L						
Sodium	ND		1	mg/L						
Magnesium	ND		0.1	mg/L						
Blank (BFB0283-BLK2)					Prepared: 2/14/2024 Analyzed: 2/23/2024					
Calcium	ND		0.1	mg/L						
Sodium	ND		1	mg/L						
Potassium	ND		0.500	mg/L						
Magnesium	ND		0.1	mg/L						
LCS (BFB0283-BS1)					Prepared: 2/14/2024 Analyzed: 2/23/2024					
Sodium	35		1	mg/L	35.71		98.0	90-110		
Calcium	35.4		0.1	mg/L	35.71		99.2	90-110		
Potassium	35.0		0.500	mg/L	35.71		98.0	90-110		
Magnesium	36.0		0.1	mg/L	35.71		101	90-110		
LCS (BFB0283-BS2)					Prepared: 2/14/2024 Analyzed: 2/23/2024					
Sodium	42		1	mg/L	35.71		118	90-110		
Potassium	36.6		0.500	mg/L	35.71		102	90-110		
Calcium	36.6		0.1	mg/L	35.71		102	90-110		
Magnesium	37.4		0.1	mg/L	35.71		105	90-110		
Duplicate (BFB0283-DUP1)			**Source: 24B0187-19**		Prepared: 2/14/2024 Analyzed: 2/23/2024					
Potassium	14.6		0.500	mg/L		13.9			4.83	15
Sodium	85		1	mg/L		79			7.06	15
Calcium	93.5		0.1	mg/L		92.4			1.15	15
Magnesium	32.5		0.1	mg/L		32.0			1.61	15
Matrix Spike (BFB0283-MS1)			**Source: 24B0187-19**		Prepared: 2/14/2024 Analyzed: 2/23/2024					
Potassium	53.7		0.500	mg/L	35.71	13.9	111	90-110		
Sodium	122		1	mg/L	35.71	79	118	90-110		
Calcium	137		0.1	mg/L	35.71	92.4	124	90-110		
Magnesium	73.4		0.1	mg/L	35.71	32.0	116	90-110		
Matrix Spike (BFB0283-MS2)			**Source: 24B0304-01**		Prepared: 2/14/2024 Analyzed: 2/23/2024					
Potassium	38.1		0.500	mg/L	35.71	1.39	103	90-110		
Sodium	142		1	mg/L	35.71	99	123	90-110		
Calcium	37.7		0.1	mg/L	35.71	1.1	103	90-110		
Magnesium	37.1		0.1	mg/L	35.71	ND	104	90-110		
Reference (BFB0283-SRM2)					Prepared: 2/14/2024 Analyzed: 2/23/2024					
Sodium	87			mg/L	84.10		103	90-110		

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DELLAVALLE™
LABORATORY INC

John de Groot & Son
6105 W Lincoln
Fresno, CA 93706

Account# 00-0015443
Account Manager: Ben Nydam
Submitted By:
Ranch: Dairy WDR

Received: 02/07/2024 12:56
Reported: 02/23/2024 15:02

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BFB0283 (Continued)										
Reference (BFB0283-SRM2)					Prepared: 2/14/2024	Analyzed: 2/23/2024				
Potassium	21.0			mg/L	21.00		100	90-110		
Reference (BFB0283-SRM3)					Prepared: 2/14/2024	Analyzed: 2/23/2024				
Calcium	49.0			mg/L	45.90		107	90-110		
Magnesium	38.3			mg/L	35.60		108	90-110		

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KS

02/07/24 12:56 24B0187

DELLAVALLE LABORATORY, INC.

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

Purchase Order No

Bill To: Acct # 15443 Cons # 13

No. Samples: 25 No of Bottles: 25

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater [ ] Ag Water [x] Groundwater [ ] Monitoring Well

Name: John DeGroot & Son

Other:

Address: 6105 W. Lincoln Ave

City: Fresno State: CA Zip: 93706 KS 2-7-24

Telephone: (559)352-6340 Fax:

Cell/Email: jdegroot15@outlook.com

COPY TO: krcordeiro@yahoo.com

REQUESTED BY:

PROJECT: Dairy WDR

CROP:

[X] Copy of Chain [X] QA/QC Documents

Sampled By: Jonathon DeGroot

Analysis and Bottles Required: (*Please Indicate Analysis*)

(x) ~~DWW1~~: EC, NO_3-N, pH	NH4-N Field Test
(1-1 Liter Plastic, Unpreserved)	White Per Sample
(X) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS	
(1-1 Liter Plastic, Unpreserved)	White Per Sample
( ) DCW1: EC, NO_3-N, TDS	
(1-1 Liter Plastic, Unpreserved)	White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK	
(1-1 Liter Plastic, Unpreserved)	White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl	
(1-1 Liter Plastic, Unpreserved)	White Per Sample
( ) Other	

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	AG WELL 1	2/7/24	11:AM	11.8	
2	AG WELL 2	2/7/24		11.3	
3	AG WELL 3	2/7/24		11.4	
4	DOM. WELL 4	2/7/24		11.0	
5	AG WELL 5	2/7/24		10.6	
6	AG WELL 8	2/7/24		9.8	
7	AG WELL 11	2/7/24		10.2	
8	AG WELL 12	2/7/24		11.4	
9	AG WELL 13	2/7/24		11.6	
10	AG WELL 14	2/7/24		9.2	

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	John DeGroot & Son	2-7-24 12:pm	2-7-24 - 12:50
Second				
Third				
Fourth	KS	DLL	2-7-24 1256	

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

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

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

Invoicing Information: ***Shipping***

Sampling hrs $ In

Miles $ Out

Consulting

Amt Paid	Rec By	Check #	Date

Signature [signature]

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[BLANK Dairy Water.xls]Dairy Water Rev 3-30-21

1 of 3

02/07/24 12:56 24B0187

KS

DELLAVALLE LABORATORY, INC.

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

Purchase Order No

Bill To: Acct # 15443 Cons # 13

Results Need By

Name: John DeGroot & Son

Address: 6105 W. Lincoln Ave

City: Fresno **State:** CA **Zip:** 93706

Telephone: (559)352-6340 **Fax:**

Cell/Email: jdegroot15@outlook.com

COPY TO: krcordeiro@yahoo.com

REQUESTED BY:

PROJECT: Dairy WDR

CROP:

[X] Copy of Chain [X] QA/QC Documents

Sampled By: Jonathon DeGroot

No. Samples: 25 No of Bottles:

Water Type: [ ] Drinking Water [ ] Wastewater
[ ] Ag Water [x] Groundwater [ ] Monitoring Well

Other:

Analysis and Bottles Required: (*Please Indicate Analysis*)

KS 2-7-24 (X) DWW1: EC, NO_3-N, pH NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, NO_3-N, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	AG WELL 15	2/7/24	11:AM	10.4	
2	AG WELL 17	2/7/24		9.4	
3	DOM. WELL 18	2/7/24		10.4	
4	AG WELL 19	2/7/24		10.8	
5	AG WELL 20	2/7/24		9.6	
6	AG WELL 21	2/7/24		7.8	
7	AG WELL 22	2/7/24		10.3	
8	DOM. WELL 23	2/7/24		7.8	
9	AG WELL 24	2/7/24		9.6	
2010	DOM. WELL 25	2/7/24		7.4	

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	Jon DeGroot & Son	2-7-24-12pm	2-7-24 12:50
Second				
Third				
Fourth	KS	DLL	2-7-24 12-54	

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

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Invoicing Information:

Sampling hrs
Miles
Consulting

Shipping

$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [-] No

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[BLANK Dairy Water.xls]Dairy Water Rev 3-30-21

2 of 3

02/07/24 12:56 24B0187

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DELLAVALLE LABORATORY, INC.

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

Purchase Order No

Bill To: Acct # 15443 Cons # 13

Results Need By

No. Samples: 25 No of Bottles:

Water Type: [ ] Drinking Water [ ] Wastewater
[ ] Ag Water [x] Groundwater [ ] Monitoring Well

Other:

Name: John DeGroot & Son
Address: 6105 W. Lincoln Ave
City: Fresno **State:** CA **Zip:** 93706
Telephone: (559)352-6340 **Fax:**
Cell/Email: jdegroot15@outlook.com
COPY TO: krcordeiro@yahoo.com

REQUESTED BY:
PROJECT: Dairy WDR
CROP:

[X] Copy of Chain [X] QA/QC Documents
Sampled By: Jonathon DeGroot

Analysis and Bottles Required: (*Please Indicate Analysis*)

KS 2-7-24

(x) DWW1: EC, NO_3-N, pH — NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
(✓) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, NO_3-N, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
21	DOM. WELL 26	2/7/24	11:AM	7.1	
22	DOM. WELL 27	2/7/24		8.0	
23	DOM. WELL 28	2/7/24		7.8	
24	DOM. WELL 29	2/7/24		8.8	
25	AG WELL 35	2/7/24		8.1	
6					
7					
8					
9					
10					

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	John DeGroot & Son	2-7-24 12:pm	12-7-24 12:50p
Second				
Third				
Fourth	KS	DL	2-7-24 12:57	

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

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IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

Invoicing Information: ***Shipping***
Sampling hrs $ In
Miles $ Out
Consulting

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [✓] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[BLANK Dairy Water.xls]Dairy Water Rev 3-30-21

3 of 3

02/07/24 12:56 24B0187

KS

Shipping Information: Shipped In □ Picked-Up □ Walk In ☒ DLI Sampler □ Other □ _____

□ Samples refridgerated before pick up | □ Picked up samples placed in Ice chest

Container: Ice Chest □ Box □ None ☒ | **Refrigerant:** Wet Ice □ Blue Ice □ None ☒

Samples Preserved with HNO_3 or H_2SO_4 were: □ Received Preserved □ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	* pH Value										
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	1 L AG unpreserved (White)										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red) Plastic										
Plastics	500 mL Amber Plastic HCl (Blue) (Ferrous Iron)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40 mL AG VOA HCl + Asc. Acid (Blue)(Set of 2) (123 TCP)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) (TTHM)										
VOA Vials	40 mL VOA, H_3PO_4 (Set of 3) (TOC)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3) (EPA524)										
VOA Vials	40 mL AG VOA, HCl (Blue) (Set of 3) (123 TCP)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) (EPA504)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG Ammonium Chlorite (HAA5)										
Glass	500 mL glass unpreserved (White)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green) (EPA 549)										
Glass	1 L AG HCl (Blue) (Oil & Grease)										
Glass	1 L AG Asc. Acid, EDTA, KH_2CH (Set of 2) (EPA 507/525)										
Special	Cr^{6+} - 250 mL Plastic w/HN_4ON (N) SO_4										
Special	Cyanide - 250 mL NaOH										
Special	Asbestos - 1 L Plastic wrapped in foil (Set of 2)										
Special	Sulfide - 1 L Plastic NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

SEND OUT

02/07/24 12:56 24B0187

KS

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☒ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

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

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1 L unpreserved (BOD) (Purple) Plastic										
Special	1 L AG unpreserved (White)										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red) Plastic										
	500 mL Amber Plastic HCl (Blue) (Ferrous Iron)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40 mL AG VOA HCl + Asc. Acid (Blue)(Set of 2) (123 TCP)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) (TTHM)										
	40 mL VOA, H_3PO_4 (Set of 3) (TOC)										
	40 mL VOA, HCl (Blue) (Set of 3) (EPA524)										
	40 mL AG VOA, HCl (Blue) (Set of 3) (123 TCP)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) (EPA504)										
Glass	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG Ammonium Chlorite (HAA5)										
	500 mL glass unpreserved (White)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green) (EPA 549)										
	1 L AG HCl (Blue) (Oil & Grease)										
	1 L AG Asc. Acid, EDTA, KH_2CH (Set of 2) (EPA 507/525)										
Special	Cr^{6+} - 250 mL Plastic w/HN_4ON (N) SO_4										
	Cyanide - 250 mL NaOH										
	Asbestos - 1 L Plastic wrapped in foil (Set of 2)										
	Sulfide - 1 L Plastic NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	DO KIT										
	Other:										
	Other:										

SEND OUT

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Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☑ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☐ Box ☐ None ☑ | **Refrigerant:** Wet Ice ☐ Blue Ice ☐ None ☑

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	(	(	(	(	(					
	1 L unpreserved (BOD) (Purple) Plastic										
Special	1 L AG unpreserved (White)										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red) Plastic										
	500 mL Amber Plastic HCl (Blue) (Ferrous Iron)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40 mL AG VOA HCl + Asc. Acid (Blue)(Set of 2) (123 TCP)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) (TTHM)										
	40 mL VOA, H_3PO_4 (Set of 3) (TOC)										
	40 mL VOA, HCl (Blue) (Set of 3) (EPA524)										
	40 mL AG VOA, HCl (Blue) (Set of 3) (123 TCP)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) (EPA504)										
Glass	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG Ammonium Chlorite (HAA5)										
	500 mL glass unpreserved (White)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green) (EPA 549)										
	1 L AG HCl (Blue) (Oil & Grease)										
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Special	Cr^{6+} - 250 mL Plastic w/HN_4ON (N) SO_4										
	Cyanide - 250 mL NaOH										
	Asbestos - 1 L Plastic wrapped in foil (Set of 2)										
	Sulfide - 1 L Plastic NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	DO KIT										
	Other:										
	Other:										

SEND OUT

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