

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: Frank S. Brown Co.

Physical address of dairy:

22045 S Valentine AVE

Number and Street

Riverdale

Fresno

93656

City

County

Zip Code

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

Date facility was originally placed in operation: 01/01/1910

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0053-0110-0083-0000 0053-0160-0016-0000

B. OPERATORS

Frank S Brown, LLC

Operator name: Frank S Brown, LLC

Telephone no.: (559) 867-0614

Landline

Cellular

22045 S Valentine AVE

Riverdale

CA

93656

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Frank S Brown, LLC

Legal owner name: Frank S Brown, LLC

Telephone no.: (559) 867-0614

Landline

Cellular

22045 S Valentine AVE

Riverdale

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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	215	269	479	424	133	0
Number under roof	1,202	0	0	0	0	0
Maximum number	1,425	275	500	450	150	0
Average number	1,415	269	479	424	133	0
Avg live weight (lbs)	1,400	1,450	1,100	775		

Predominant milk cow breed: HolsteinAverage milk production: 75 pounds per cow per day**B. MANURE GENERATED**Total manure excreted by the herd: 50,807.21 tons per reporting periodTotal nitrogen from manure: 627,002.65 lbs per reporting periodAfter ammonia losses (30% loss applied): 438,901.86 lbs per reporting periodTotal phosphorus from manure: 103,799.80 lbs per reporting periodTotal potassium from manure: 275,633.83 lbs per reporting periodTotal salt from manure: 728,109.30 lbs per reporting period**C. PROCESS WASTEWATER GENERATED**Process wastewater generated: 34,242,000 gallonsTotal nitrogen generated: 190,701.50 lbsTotal phosphorus generated: 19,043.61 lbsTotal potassium generated: 195,684.01 lbsTotal salt generated: 1,422,086.80 lbs

$$\begin{aligned}
 & 34,242,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 34,242,000 \text{ gallons generated}
 \end{aligned}$$

D. FRESH WATER SOURCES

Source Description	Type
Borba	Ground water
Borges	Ground water
Christensen	Ground water
Coelho (New)	Ground water
D22 Domestic	Ground water

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Source Description	Type
D22 Well	Ground water
D40	Ground water
Dairy New PSI Sub	Ground water
Dairy Old Submersible	Ground water
Dairy Turbine	Ground water
Furtado	Ground water
Laguna Irrigation District	Surface water
River Pump	Surface water
Riverdale Irrigation District	Surface water
Rosa Elect	Ground water
Santos	Ground water
Santos Diesel	Ground water
Santos Domestic	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**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
01/27/2023	Separator solids	600.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00
02/10/2023	Separator solids	410.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00
03/08/2023	Separator solids	590.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00
03/24/2023	Separator solids	550.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00
04/28/2023	Separator solids	600.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00
05/19/2023	Separator solids	670.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00
05/22/2023	Separator solids	580.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00
12/20/2023	Separator solids	480.00 ton	Dry-weight	82.3		20,400.00	4,000.00	14,900.00		0.00

No liquid nutrient exports entered.

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Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	32,352.77	6,343.68	23,630.21	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	32,352.77	6,343.68	23,630.21	0.00

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APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
D15	31	31	2	both	X053-X160-X14S-XXXX
D16	25	25	2	both	X053-X160-X14S-XXXX
D17	20	20	1	manure	X053-X160-X14S-XXXX
D21	46	46	1	manure	X053-X110-X083-XXXX
D22	43	43	2	both	X053-X110-X083-XXXX
D23	30	30	1	manure	X053-X110-X083-XXXX
D24	15	15	1	none	X053-X110-X083-XXXX
D25	51	51	2	process wastewater	X053-X110-X069-XXXX
D26	52	52	1	none	X053-X110-X069-XXXX
D30	65	65	2	process wastewater	X053-X110-X027-XXXX
D31	30	30	1	manure	X053-X110-X040-XXXX
D32	14	14	1	manure	X053-X110-X036-XXXX
D33	55	55	2	both	X053-X110-X077-XXXX X053-X110-X078-XXXX X053-X110-X079-XXXX
D34	18	18	2	both	X053-X110-X052-XXXX
D35	17	17	2	both	X053-X110-X038-XXXX
D40	20	20	2	process wastewater	X004-X050-X024-XXXX
D41	30	30	2	process wastewater	X004-X050-X073-XXXX X004-X050-X105-XXXX
D42	20	20	2	process wastewater	X004-X050-X026-XXXX X004-X050-X076-XXXX
D43	30	30	2	process wastewater	X004-X050-X102-XXXX
R11	11	11	1	none	X004-X120-X002-XXXX
R12	23	23	1	none	X004-X120-X002-XXXX
R13	80	80	1	none	X004-X120-X002-XXXX
R14	97	97	1	none	X004-X120-X002-XXXX
Totals for areas that were used for application	545	545	29		
Totals for areas that were not used for application	278	278	6		
Land application area totals	823	823	35		

B. CROPS AND HARVESTS

D15

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D15Field name: D15

04/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 31 Plant date: 04/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/31/2023	641.00 ton	Dry-weight		43.3	12,600.00	2,800.00	12,300.00		5.40

	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	171.60	0.00
Total actual harvest content	20.68	295.45	65.65	288.41	1,266.20

08/02/2023: Sorghum

Crop: Sorghum Acres planted: 31 Plant date: 08/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	343.00 ton	Dry-weight		59.2	17,900.00	3,100.00	21,700.00		12.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	492.00	84.00	588.00	0.00
Total actual harvest content	11.06	161.61	27.99	195.92	1,128.58

D16Field name: D16

04/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 Plant date: 04/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/01/2023	625.00 ton	Dry-weight		49.5	12,500.00	2,800.00	13,100.00		5.00

	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	171.60	0.00
Total actual harvest content	25.00	315.63	70.70	330.78	1,262.50

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D16

08/02/2023: Sorghum

Crop: Sorghum Acres planted: 25 Plant date: 08/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	329.29 ton	Dry-weight		59.2	17,900.00	3,100.00	21,700.00		12.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	492.00	84.00	588.00	0.00
Total actual harvest content	13.17	192.39	33.32	233.23	1,343.50

D17Field name: D17

02/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 20 Plant date: 02/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	202.70 ton	Dry-weight		7.8	39,700.00	3,200.00	27,300.00		11.80

	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	10.14	741.95	59.80	510.21	2,205.29

D21Field name: D21

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D21

02/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 43 Plant date: 02/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	404.50 ton	Dry-weight		6.0	43,200.00	3,000.00	26,500.00		12.20

	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	9.41	764.00	53.06	468.66	2,157.58

D22

Field name: D22

04/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 41 Plant date: 04/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/31/2023	914.16 ton	Dry-weight		50.4	12,500.00	2,700.00	16,300.00		5.60

	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	171.60	0.00
Total actual harvest content	22.30	276.48	59.72	360.53	1,238.62

08/04/2023: Sorghum

Crop: Sorghum Acres planted: 41 Plant date: 08/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	551.64 ton	Dry-weight		59.2	17,900.00	3,100.00	21,700.00		12.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	492.00	84.00	588.00	0.00
Total actual harvest content	13.45	196.52	34.03	238.24	1,372.37

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D23Field name: D23

01/08/2020: Alfalfa, hay

Crop: Alfalfa, hayAcres planted: 30 Plant date: 01/08/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	207.10 ton	Dry-weight		8.5	36,800.00	3,100.00	14,100.00		9.20

	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	6.90	464.90	39.16	178.13	1,162.25

D24Field name: D24

01/22/2022: Alfalfa, hay

Crop: Alfalfa, hayAcres planted: 15 Plant date: 01/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	94.10 ton	Dry-weight		6.0	43,200.00	3,000.00	26,500.00		12.20

	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	6.27	509.50	35.38	312.54	1,438.85

D25Field name: D25

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D25

10/22/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 50 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	689.00 ton	Dry-weight		49.0	19,700.00	4,000.00	28,300.00		9.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	18.00	180.00	30.60	135.00	0.00
Total actual harvest content	13.78	276.90	56.22	397.77	1,293.12

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/17/2023	1,032.00 ton	Dry-weight		49.6	12,500.00	2,400.00	17,100.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	26.00	208.00	39.00	171.60	0.00
Total actual harvest content	20.64	260.06	49.93	355.77	1,414.75

D26

Field name: D26

02/19/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 50 Plant date: 02/19/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	367.80 ton	Dry-weight		9.1	39,200.00	3,300.00	14,200.00		9.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.36	524.23	44.13	189.90	1,257.08

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D30Field name: D30

10/25/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 65 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 (%)
05/17/2023	1,221.07 ton	Dry-weight		46.1	15,000.00	2,400.00	16,700.00		7.80

	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	135.00	0.00
Total actual harvest content	18.79	303.76	48.60	338.19	1,579.58

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 65 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	1,242.00 ton	Dry-weight		52.7	13,500.00	3,000.00	13,500.00		6.70

	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	171.60	0.00
Total actual harvest content	19.11	244.02	54.23	244.02	1,211.08

D31Field name: D31

02/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 30 Plant date: 02/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	264.30 ton	Dry-weight		4.3	42,600.00	3,400.00	11,400.00		9.00

	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	718.34	57.33	192.23	1,517.61

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D32

Field name: D32

02/10/2021: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 14 Plant date: 02/10/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	72.40 ton	Dry-weight		5.9	37,900.00	3,200.00	28,500.00		11.90
		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		5.17				368.87	31.14	277.38	1,158.18

D33

Field name: D33

10/21/2022: Triticale, soft dough

Crop: Triticale, soft dough

Acres planted: 52 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 (%)
05/16/2023	535.00 ton	Dry-weight		45.0	16,200.00	2,300.00	18,600.00		7.90
		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	135.00	0.00
Total actual harvest content		10.29				183.34	26.03	210.50	894.07

06/06/2023: Corn, silage

Crop: Corn, silage

Acres planted: 52 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 (%)
09/18/2023	1,391.66 ton	Dry-weight		59.3	11,500.00	2,200.00	12,400.00		5.60
		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	171.60	0.00
Total actual harvest content		26.76				250.53	47.93	270.13	1,219.95

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D34Field name: D34

10/26/2022: Triticale, hay

Crop: Triticale, hay Acres planted: 18 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 (%)
05/15/2023	118.24 ton	Dry-weight		4.7	17,900.00	2,200.00	27,000.00		8.98

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	240.00	39.00	198.00	0.00
Total actual harvest content	6.57	224.11	27.54	338.05	1,124.32

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	475.67 ton	Dry-weight		66.3	13,600.00	2,900.00	15,800.00		6.20

	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	171.60	0.00
Total actual harvest content	26.43	242.23	51.65	281.42	1,104.29

D35Field name: D35

10/23/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 17 Plant date: 10/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	352.84 ton	Dry-weight		51.8	17,400.00	2,600.00	20,100.00		8.80

	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	135.00	0.00
Total actual harvest content	20.76	348.14	52.02	402.16	1,760.71

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D35

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 17 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/17/2023	402.56 ton	Dry-weight		53.4	11,300.00	2,100.00	15,700.00		6.70

	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	171.60	0.00
Total actual harvest content	23.68	249.39	46.35	346.50	1,478.67

D40

Field name: D40

10/20/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 17 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 (%)
05/16/2023	283.00 ton	Dry-weight		52.8	17,100.00	2,700.00	18,800.00		7.40

	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	135.00	0.00
Total actual harvest content	16.65	268.72	42.43	295.44	1,162.90

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	492.11 ton	Dry-weight		54.6	11,300.00	2,000.00	10,900.00		5.00

	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	171.60	0.00
Total actual harvest content	27.34	280.51	49.65	270.58	1,241.21

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D41Field name: D41

10/27/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 30 Plant date: 10/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	552.00 ton	Dry-weight		57.2	16,600.00	2,700.00	17,900.00		8.60

	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	135.00	0.00
Total actual harvest content	18.40	261.46	42.53	281.93	1,354.53

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 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 (%)
09/19/2023	848.55 ton	Dry-weight		52.6	11,600.00	2,000.00	11,900.00		5.20

	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	171.60	0.00
Total actual harvest content	28.29	311.04	53.63	319.09	1,394.34

D42Field name: D42

10/27/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 18 Plant date: 10/27/2022

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	294.00 ton	Dry-weight		56.0	17,500.00	2,200.00	17,100.00		8.20

	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	135.00	0.00
Total actual harvest content	16.33	251.53	31.62	245.78	1,178.61

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D42

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 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 (%)
09/18/2023	424.25 ton	Dry-weight		56.5	11,400.00	2,000.00	12,300.00		5.60

	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	171.60	0.00
Total actual harvest content	23.57	233.76	41.01	252.22	1,148.30

D43

Field name: D43

10/28/2022: Triticale, hay

Crop: Triticale, hay Acres planted: 30 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 (%)
05/17/2023	235.84 ton	Dry-weight		4.7	17,900.00	2,200.00	27,000.00		8.98

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	240.00	39.00	198.00	0.00
Total actual harvest content	7.86	268.21	32.96	404.56	1,345.54

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	714.69 ton	Dry-weight		59.4	12,500.00	2,400.00	15,500.00		6.80

	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	171.60	0.00
Total actual harvest content	23.82	241.80	46.43	299.84	1,315.41

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R11Field name: R11

12/05/2022: Triticale, hay

Crop: Triticale, hayAcres planted: 10 Plant date: 12/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/18/2023	52.69 ton	Dry-weight		4.7	17,900.00	2,200.00	27,000.00		8.98

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	240.00	39.00	198.00	0.00
Total actual harvest content	5.27	179.76	22.09	271.15	901.84

R12Field name: R12

10/20/2022: Triticale, soft dough

Crop: Triticale, soft doughAcres planted: 23 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 (%)
03/31/2023	0.01 ton	As-is		0.1	0.00	0.00	0.00		0.00

	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	135.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

R13Field name: R13

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R13

10/29/2017: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 80 Plant date: 10/29/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	496.10 ton	Dry-weight		6.8	36,100.00	2,900.00	11,300.00		16.40

	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	6.20	417.28	33.52	130.62	1,895.70

R14

Field name: R14

11/09/2017: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 97 Plant date: 11/09/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	541.30 ton	Dry-weight		9.4	37,400.00	3,000.00	14,600.00		9.20

	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	5.58	378.18	30.34	147.63	930.28

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NUTRIENT BUDGET

A. LAND APPLICATIONS

D15 - 04/17/2023: Corn, silage

Field name: D15

Crop: Corn, silage

Plant date: 04/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/05/2023	Surface (irrigation)	Light rain	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	65.90	4,799,900.00 gal
Application event totals		0.00	0.00	0.00	65.90	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	261.83	27.96	305.86	1,924.73	1,300,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	51.02	3,716,100.00 gal
Application event totals		261.83	27.96	305.86	1,975.75	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	57.39	4,180,600.00 gal
Application event totals		0.00	0.00	0.00	57.39	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	36.46	3.89	42.58	267.98	181,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	42.51	3,096,700.00 gal
Application event totals		36.46	3.89	42.58	310.50	
06/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	48.89	3,561,200.00 gal
Application event totals		0.00	0.00	0.00	48.89	

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D15 - 04/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	59.52
Application event totals		0.00	0.00	0.00	59.52

D15 - 08/02/2023: Sorghum

Field name: D15

Crop: Sorghum

Plant date: 08/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	53.14
Application event totals		0.00	0.00	0.00	53.14
08/01/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
SM Application	Separator solids	149.09	29.23	108.89	0.00
Application event totals		149.09	29.23	108.89	0.00
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	57.39
Application event totals		0.00	0.00	0.00	57.39
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	87.15
Application event totals		0.00	0.00	0.00	87.15

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D15 - 08/02/2023: Sorghum

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	16.91	4.31	17.90	130.42	190,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	47.30	3,445,100.00 gal
Application event totals		16.91	4.31	17.90	177.72	

D16 - 04/17/2023: Corn, silage

Field name: D16

Crop: Corn, silage

Plant date: 04/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/02/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	85.40	5,016,700.00 gal
Application event totals		0.00	0.00	0.00	85.40	
05/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	161.09	17.20	188.17	1,184.16	645,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	71.17	4,180,600.00 gal
Application event totals		161.09	17.20	188.17	1,255.33	
05/30/2023	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	117.63	12.56	137.41	864.71	471,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	61.15	3,592,200.00 gal
Application event totals		117.63	12.56	137.41	925.86	

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D16 - 04/17/2023: Corn, silage

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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	81.18	4,768,900.00 gal
Application event totals		0.00	0.00	0.00	81.18	
06/21/2023	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
WW Application	Process wastewater	32.72	3.49	38.22	240.50	131,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	73.81	4,335,410.00 gal
Application event totals		32.72	3.49	38.22	314.31	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
River Pump	Surface water	0.00	0.00	0.00	35.00	3,406,400.00 gal
Application event totals		0.00	0.00	0.00	35.00	

D16 - 08/02/2023: Sorghum

Field name:	D16					
Crop:	Sorghum					
Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/01/2023	Broadcast/incorporate		No precipitation	No precipitation		No precipitation
Source description	Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
SM Application	Separator solids		184.87	36.25	135.03	0.00
Application event totals			184.87	36.25	135.03	0.00
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)
Riverdale Irrigation District	Surface water		0.00	0.00	0.00	65.90
Application event totals			0.00	0.00	0.00	65.90

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D16 - 08/02/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	72.49	4,258,000.00 gal
Application event totals		0.00	0.00	0.00	72.49	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	22.41	5.71	23.72	172.79	203,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	73.80	4,335,400.00 gal
Application event totals		22.41	5.71	23.72	246.60	

D17 - 02/01/2023: Alfalfa, hay

Field name: D17

Crop: Alfalfa, hay

Plant date: 02/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/21/2022	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	144.43	28.32	105.49	0.00	400.00 ton
Application event totals		144.43	28.32	105.49	0.00	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	128.30	6,029,200.00 gal
Application event totals		0.00	0.00	0.00	128.30	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	125.21	5,883,800.00 gal
Application event totals		0.00	0.00	0.00	125.21	

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D17 - 02/01/2023: Alfalfa, hay

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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	133.44	6,270,900.00 gal
Application event totals		0.00	0.00	0.00	133.44	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	88.14	4,141,900.00 gal
Application event totals		0.00	0.00	0.00	88.14	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	97.20	4,567,700.00 gal
Application event totals		0.00	0.00	0.00	97.20	

D21 - 02/01/2023: Alfalfa, hay

Field name:	D21					
Crop:	Alfalfa, hay					
Application date	Plant date: 02/01/2023		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/30/2022	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	216.65	42.48	158.24	0.00	1,290.00 ton
Application event totals		216.65	42.48	158.24	0.00	
04/24/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	96.52	9,751,450.00 gal
Application event totals		0.00	0.00	0.00	96.52	

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D21 - 02/01/2023: Alfalfa, hay

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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	56.70	5,728,900.00 gal
Application event totals		0.00	0.00	0.00	56.70	
06/27/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	75.41	7,619,500.00 gal
Application event totals		0.00	0.00	0.00	75.41	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	47.20	4,768,900.00 gal
Application event totals		0.00	0.00	0.00	47.20	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	33.21	5,560,200.00 gal
Application event totals		0.00	0.00	0.00	33.21	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	62.07	6,270,900.00 gal
Application event totals		0.00	0.00	0.00	62.07	

D22 - 04/18/2023: Corn, silage

Field name: D22

Crop: Corn, silage

Plant date: 04/18/2023

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

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D22 - 04/18/2023: Corn, silage

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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	83.37	8,031,300.00 gal
Application event totals		0.00	0.00	0.00	83.37	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	81.17	7,819,200.00 gal
Application event totals		0.00	0.00	0.00	81.17	
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
WW Application	Process wastewater	163.92	17.58	192.30	1,210.13	1,081,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	110.90	10,683,700.00 gal
Application event totals		163.92	17.58	192.30	1,321.03	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	24.37	2.60	28.46	179.11	160,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	0.09	9,019.20 gal
Application event totals		24.37	2.60	28.46	179.21	
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
WW Application	Process wastewater	124.57	13.30	145.51	915.71	818,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	0.08	7,741.80 gal
Application event totals		124.57	13.30	145.51	915.79	

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D22 - 04/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	0.02	1,548.40 gal
Application event totals		0.00	0.00	0.00	0.02	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	55.13	5,310,900.00 gal
Application event totals		0.00	0.00	0.00	55.13	

D22 - 08/04/2023: Sorghum

Field name: D22

Crop: Sorghum

Plant date: 08/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	84.38	8,128,900.00 gal
Application event totals		0.00	0.00	0.00	84.38	
07/31/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
SM Application	Separator solids	179.66	35.23	131.22	0.00	1,020.00 ton
Application event totals		179.66	35.23	131.22	0.00	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	55.45	5,341,800.00 gal
Application event totals		0.00	0.00	0.00	55.45	

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D22 - 08/04/2023: Sorghum

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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	65.90	6,348,300.00 gal
Application event totals		0.00	0.00	0.00	65.90	
09/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	42.61	10.85	45.09	328.54	633,000.00 gal
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	92.02	8,864,400.00 gal
Application event totals		42.61	10.85	45.09	420.55	

D23 - 01/08/2020: Alfalfa, hay

Field name: D23

Crop: Alfalfa, hay Plant date: 01/08/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/17/2022	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	394.78	77.41	288.34	0.00	1,640.00 ton
Application event totals		394.78	77.41	288.34	0.00	
04/29/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	68.46	4,826,000.00 gal
Application event totals		0.00	0.00	0.00	68.46	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	90.06	6,348,300.00 gal
Application event totals		0.00	0.00	0.00	90.06	

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D23 - 01/08/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/27/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	113.12	7,974,100.00 gal
Application event totals		0.00	0.00	0.00	113.12	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	53.82	3,793,500.00 gal
Application event totals		0.00	0.00	0.00	53.82	
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
River Pump	Surface water	0.00	0.00	0.00	46.40	5,419,300.00 gal
Application event totals		0.00	0.00	0.00	46.40	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	38.44	2,709,600.00 gal
Application event totals		0.00	0.00	0.00	38.44	

D24 - 01/22/2022: Alfalfa, hay

Field name: D24

Crop: Alfalfa, hay

Plant date: 01/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/25/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	54.73	1,929,100.00 gal
Application event totals		0.00	0.00	0.00	54.73	

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D24 - 01/22/2022: Alfalfa, hay

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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	83.47	2,941,900.00 gal
Application event totals		0.00	0.00	0.00	83.47	
06/26/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	81.27	2,864,500.00 gal
Application event totals		0.00	0.00	0.00	81.27	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	57.11	2,012,900.00 gal
Application event totals		0.00	0.00	0.00	57.11	
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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	87.86	3,096,700.00 gal
Application event totals		0.00	0.00	0.00	87.86	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	41.73	1,470,900.00 gal
Application event totals		0.00	0.00	0.00	41.73	
10/02/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	72.49	2,554,800.00 gal
Application event totals		0.00	0.00	0.00	72.49	

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D24 - 01/22/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2023	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
Riverdale Irrigation District	Surface water	0.00	0.00	0.00	57.11	2,012,900.00 gal
Application event totals		0.00	0.00	0.00	57.11	

D25 - 10/22/2022: Triticale, soft dough

Field name: D25

Crop: Triticale, soft dough

Plant date: 10/22/2022

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
WW Application	Process wastewater	173.60	6.19	72.12	1,359.42	1,912,000.00 gal
D22 Well	Ground water	0.00	0.00	0.00	523.29	13,162,800.00 gal
Application event totals		173.60	6.19	72.12	1,882.72	
04/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	187.81	20.06	219.39	1,380.60	1,504,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	54.01	10,513,800.00 gal
Application event totals		187.81	20.06	219.39	1,434.61	

D25 - 06/02/2023: Corn, silage

Field name: D25

Crop: Corn, silage

Plant date: 06/02/2023

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

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D25 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	133.37	14.24	155.79	980.37	1,068,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	41.18	8,016,000.00 gal
Application event totals		133.37	14.24	155.79	1,021.55	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	16.86	1.80	19.69	123.92	135,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	48.79	9,497,480.00 gal
Application event totals		16.86	1.80	19.69	172.71	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	20.26	5.16	21.44	156.19	367,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	52.31	10,183,070.00 gal
Application event totals		20.26	5.16	21.44	208.51	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	31.85	6,200,600.00 gal
Application event totals		0.00	0.00	0.00	31.85	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	61.31	6.55	71.62	450.71	491,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	37.81	7,360,000.00 gal
Application event totals		61.31	6.55	71.62	488.52	

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D25 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	40.95	10.43	43.34	315.79	742,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	25.79	5,021,000.00 gal
Application event totals		40.95	10.43	43.34	341.59	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	31.70	6,170,300.00 gal
Application event totals		0.00	0.00	0.00	31.70	

D26 - 02/19/2021: Alfalfa, hay

Field name: D26

Crop: Alfalfa, hay

Plant date: 02/19/2021

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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	18.90	3,678,500.00 gal
Application event totals		0.00	0.00	0.00	18.90	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	46.26	9,005,000.00 gal
Application event totals		0.00	0.00	0.00	46.26	
06/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	52.21	10,162,900.00 gal
Application event totals		0.00	0.00	0.00	52.21	

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D26 - 02/19/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	41.23	8,025,500.00 gal
Application event totals		0.00	0.00	0.00	41.23	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	45.68	8,892,500.00 gal
Application event totals		0.00	0.00	0.00	45.68	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	50.14	9,759,600.00 gal
Application event totals		0.00	0.00	0.00	50.14	
10/02/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	39.52	7,692,800.00 gal
Application event totals		0.00	0.00	0.00	39.52	

D30 - 10/25/2022: Triticale, soft dough

Field name: D30

Crop: Triticale, soft dough

Plant date: 10/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/08/2022	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	144.36	5.15	59.97	1,130.48	2,067,000.00 gal
Furtado	Ground water	0.00	0.00	0.00	53.21	1,349,250.00 gal
Application event totals		144.36	5.15	59.97	1,183.69	

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D30 - 10/25/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	184.53	19.71	215.55	1,356.45	1,921,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	62.95	15,930,000.00 gal
Application event totals		184.53	19.71	215.55	1,419.40	

D30 - 06/12/2023: Corn, silage

Field name: D30

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	42.23	10,687,200.00 gal
Application event totals		0.00	0.00	0.00	42.23	
06/26/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	31.40	7,944,800.00 gal
Application event totals		0.00	0.00	0.00	31.40	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	33.13	8,384,400.00 gal
Application event totals		0.00	0.00	0.00	33.13	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	31.24	7,904,500.00 gal
Application event totals		0.00	0.00	0.00	31.24	

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D30 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	259.84	27.75	303.52	1,910.04	2,705,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	29.88	7,561,700.00 gal
Application event totals		259.84	27.75	303.52	1,939.92	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	30.68	7,763,300.00 gal
Application event totals		0.00	0.00	0.00	30.68	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	27.09	6,855,900.00 gal
Application event totals		0.00	0.00	0.00	27.09	
08/22/2023	Surface (irrigation)	Light rain	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	31.87	8,065,800.00 gal
Application event totals		0.00	0.00	0.00	31.87	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	25.82	6,533,300.00 gal
Application event totals		0.00	0.00	0.00	25.82	

D31 - 02/01/2023: Alfalfa, hay

Field name: D31

Crop: Alfalfa, hay

Plant date: 02/01/2023

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

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D31 - 02/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/19/2022	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	223.87	43.90	163.51	0.00	930.00 ton
Application event totals		223.87	43.90	163.51	0.00	
04/27/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	62.15	7,259,200.00 gal
Application event totals		0.00	0.00	0.00	62.15	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	66.90	7,813,700.00 gal
Application event totals		0.00	0.00	0.00	66.90	
06/26/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	50.07	5,847,700.00 gal
Application event totals		0.00	0.00	0.00	50.07	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	50.07	5,847,700.00 gal
Application event totals		0.00	0.00	0.00	50.07	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	49.20	5,746,900.00 gal
Application event totals		0.00	0.00	0.00	49.20	

D32 - 02/10/2021: Alfalfa, hay

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D32 - 02/10/2021: Alfalfa, hay

Field name: D32

Crop: Alfalfa, hay

Plant date: 02/10/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/18/2022	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	219.23	42.99	160.12	0.00	425.00 ton
Application event totals		219.23	42.99	160.12	0.00	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	23.30	1,270,000.00 gal
Application event totals		0.00	0.00	0.00	23.30	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	51.05	2,782,700.00 gal
Application event totals		0.00	0.00	0.00	51.05	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	48.83	2,661,700.00 gal
Application event totals		0.00	0.00	0.00	48.83	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	36.02	1,963,000.00 gal
Application event totals		0.00	0.00	0.00	36.02	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	51.79	2,823,000.00 gal
Application event totals		0.00	0.00	0.00	51.79	

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D32 - 02/10/2021: Alfalfa, hay

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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	34.04	1,855,100.00 gal
Application event totals		0.00	0.00	0.00	34.04	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	57.38	3,127,500.00 gal
Application event totals		0.00	0.00	0.00	57.38	
09/30/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	41.51	2,262,500.00 gal
Application event totals		0.00	0.00	0.00	41.51	

D33 - 10/21/2022: Triticale, soft dough

Field name: D33

Crop: Triticale, soft dough

Plant date: 10/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/17/2022	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	237.48	46.56	173.45	0.00	1,710.00 ton
Application event totals		237.48	46.56	173.45	0.00	
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
D40	Ground water	0.00	0.00	0.00	506.99	10,283,900.00 gal
Application event totals		0.00	0.00	0.00	506.99	

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D33 - 10/21/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/27/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	33.37	6,755,100.00 gal
Application event totals		0.00	0.00	0.00	33.37	

D33 - 06/06/2023: Corn, silage

Field name: D33

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
Wastewater Application	Process wastewater	47.07	5.03	54.98	346.00	392,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	56.77	11,493,800.00 gal
Application event totals		47.07	5.03	54.98	402.77	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	64.74	13,106,900.00 gal
Application event totals		0.00	0.00	0.00	64.74	
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
WW Application	Process wastewater	198.89	21.31	233.11	1,466.95	1,662,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	0.06	11,191.30 gal
Application event totals		198.89	21.31	233.11	1,467.01	

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D33 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/16/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	49.30	9,981,400.00 gal
Application event totals		0.00	0.00	0.00	49.30	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	42.83	8,670,700.00 gal
Application event totals		0.00	0.00	0.00	42.83	

D34 - 10/26/2022: Triticale, hay

Field name: D34

Crop: Triticale, hay

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	216.65	42.48	158.24	0.00	540.00 ton
Application event totals		216.65	42.48	158.24	0.00	
10/27/2022	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	68.60	2.45	28.50	537.20	272,000.00 gal
Furtado	Ground water	0.00	0.00	0.00	404.66	2,841,300.00 gal
Application event totals		68.60	2.45	28.50	941.86	

D34 - 06/19/2023: Corn, silage

Field name: D34

Crop: Corn, silage

Plant date: 06/19/2023

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D34 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	61.58	4,315,200.00 gal
Application event totals		0.00	0.00	0.00	61.58	
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
WW Application	Process wastewater	173.78	18.56	203.00	1,277.48	501,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	52.23	3,659,900.00 gal
Application event totals		173.78	18.56	203.00	1,329.71	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	36.08	2,528,600.00 gal
Application event totals		0.00	0.00	0.00	36.08	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	38.93	2,728,300.00 gal
Application event totals		0.00	0.00	0.00	38.93	
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	107.47	27.36	113.75	828.73	701,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	45.32	3,175,900.00 gal
Application event totals		107.47	27.36	113.75	874.05	

D35 - 10/23/2022: Triticale, soft dough

Field name: D35

Crop: Triticale, soft dough

Plant date: 10/23/2022

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D35 - 10/23/2022: Triticale, soft dough

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	216.65	42.48	158.24	0.00	510.00 ton
Application event totals		216.65	42.48	158.24	0.00	
11/01/2022	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
WW Application	Process wastewater	86.25	3.08	35.83	675.44	323,000.00 gal
Furtado	Ground water	0.00	0.00	0.00	546.27	3,622,500.00 gal
Application event totals		86.25	3.08	35.83	1,221.71	
04/25/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	17.87	1,183,000.00 gal
Application event totals		0.00	0.00	0.00	17.87	

D35 - 06/01/2023: Corn, silage

Field name:	D35	Plant date:	06/01/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	98.80	10.55	115.41	726.26	269,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	51.28	3,393,700.00 gal
Application event totals		98.80	10.55	115.41	777.54	

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D35 - 06/01/2023: Corn, silage

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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	42.23	2,794,800.00 gal
Application event totals		0.00	0.00	0.00	42.23	
06/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	28.65	1,896,500.00 gal
Application event totals		0.00	0.00	0.00	28.65	
06/29/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	23.63	1,563,800.00 gal
Application event totals		0.00	0.00	0.00	23.63	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	32.17	2,129,000.00 gal
Application event totals		0.00	0.00	0.00	32.17	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	21.62	1,430,700.00 gal
Application event totals		0.00	0.00	0.00	21.62	
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
WW Application	Process wastewater	221.47	23.65	258.71	1,628.01	603,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	35.19	2,329,000.00 gal
Application event totals		221.47	23.65	258.71	1,663.20	

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D35 - 06/01/2023: Corn, silage

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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	32.17	2,129,400.00 gal
Application event totals		0.00	0.00	0.00	32.17	
09/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	21.11	1,397,400.00 gal
Application event totals		0.00	0.00	0.00	21.11	

D40 - 10/20/2022: Triticale, soft dough

Field name: D40

Crop: Triticale, soft dough

Plant date: 10/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/18/2022	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	147.94	5.28	61.46	1,158.50	554,000.00 gal
Borges	Ground water	0.00	0.00	0.00	168.92	1,210,000.00 gal
Application event totals		147.94	5.28	61.46	1,327.43	
04/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	220.37	23.53	257.42	1,619.91	600,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	76.17	5,041,100.00 gal
Application event totals		220.37	23.53	257.42	1,696.08	

D40 - 06/09/2023: Corn, silage

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D40 - 06/09/2023: Corn, silage

Field name: D40

Crop: Corn, silage

Plant date: 06/09/2023

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
Wastewater Application	Process wastewater	124.34	13.34	145.87	917.95	360,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	52.51	3,680,000.00 gal
Application event totals		124.34	13.34	145.87	970.46	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	17.17	1,203,000.00 gal
Application event totals		0.00	0.00	0.00	17.17	
06/28/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	70.66	4,951,720.00 gal
Application event totals		0.00	0.00	0.00	70.66	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	31.34	2,195,900.00 gal
Application event totals		0.00	0.00	0.00	31.34	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	196.33	20.97	229.34	1,443.22	566,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	1.06	74,300.00 gal
Application event totals		196.33	20.97	229.34	1,444.28	

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D40 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	40.28	2,823,000.00 gal
Application event totals		0.00	0.00	0.00	40.28	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	40.14	2,812,900.00 gal
Application event totals		0.00	0.00	0.00	40.14	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	31.57	3.37	36.87	232.04	91,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	12.24	858,000.00 gal
Application event totals		31.57	3.37	36.87	244.28	
09/29/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	16.61	1,164,000.00 gal
Application event totals		0.00	0.00	0.00	16.61	

D41 - 10/27/2022: Triticale, soft dough

Field name: D41

Crop: Triticale, soft dough

Plant date: 10/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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D41 - 10/27/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/04/2022	Surface (irrigation)	No precipitation	No precipitation		Steady rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	122.57	4.37	50.92	959.84	810,000.00 gal
Furtado	Ground water	0.00	0.00	0.00	473.75	5,544,000.00 gal
Application event totals		122.57	4.37	50.92	1,433.59	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	197.93	21.14	231.20	1,454.95	951,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	17.27	2,016,500.00 gal
Application event totals		197.93	21.14	231.20	1,472.22	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	15.54	1,815,000.00 gal
Application event totals		0.00	0.00	0.00	15.54	

D41 - 06/07/2023: Corn, silage

Field name: D41

Crop: Corn, silage

Plant date: 06/07/2023

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
Wastewater Application	Process wastewater	135.91	14.51	158.76	999.04	653,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	15.39	1,798,000.00 gal
Application event totals		135.91	14.51	158.76	1,014.43	

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D41 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/05/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	56.99	6,656,000.00 gal
Application event totals		0.00	0.00	0.00	56.99	
06/27/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	26.82	3,132,000.00 gal
Application event totals		0.00	0.00	0.00	26.82	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	50.43	5,890,000.00 gal
Application event totals		0.00	0.00	0.00	50.43	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	16.27	1,900,000.00 gal
Application event totals		0.00	0.00	0.00	16.27	
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
WW Application	Process wastewater	167.96	17.94	196.20	1,234.64	807,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	0.02	2,823.00 gal
Application event totals		167.96	17.94	196.20	1,234.67	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	50.93	5,948,500.00 gal
Application event totals		0.00	0.00	0.00	50.93	

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D41 - 06/07/2023: Corn, silage

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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	26.76	3,125,500.00 gal
Application event totals		0.00	0.00	0.00	26.76	

D42 - 10/27/2022: Triticale, soft dough

Field name: D42

Crop: Triticale, soft dough Plant date: 10/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/29/2022	Surface (irrigation)	No precipitation	No precipitation		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	166.71	5.95	69.26	1,305.46	661,000.00 gal
Furtado	Ground water	0.00	0.00	0.00	578.89	4,064,600.00 gal
Application event totals		166.71	5.95	69.26	1,884.35	
04/08/2023	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
WW Application	Process wastewater	159.56	17.04	186.39	1,172.94	460,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	28.78	2,016,500.00 gal
Application event totals		159.56	17.04	186.39	1,201.71	
04/29/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	52.37	3,669,900.00 gal
Application event totals		0.00	0.00	0.00	52.37	

D42 - 06/08/2023: Corn, silage

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D42 - 06/08/2023: Corn, silage

Field name: D42

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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
WW Application	Process wastewater	74.92	8.00	87.52	550.77	216,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	39.63	2,777,000.00 gal
Application event totals		74.92	8.00	87.52	590.40	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	32.29	2,262,500.00 gal
Application event totals		0.00	0.00	0.00	32.29	
06/29/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	25.90	1,814,800.00 gal
Application event totals		0.00	0.00	0.00	25.90	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	39.88	2,794,800.00 gal
Application event totals		0.00	0.00	0.00	39.88	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	238.54	25.56	279.59	1,759.40	690,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	31.22	2,187,800.00 gal
Application event totals		238.54	25.56	279.59	1,790.62	

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D42 - 06/08/2023: Corn, silage

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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	41.72	2,923,900.00 gal
Application event totals		0.00	0.00	0.00	41.72	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	44.31	3,105,300.00 gal
Application event totals		0.00	0.00	0.00	44.31	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Irrigation District	Surface water	0.00	0.00	0.00	40.28	2,823,000.00 gal
Application event totals		0.00	0.00	0.00	40.28	

D43 - 10/28/2022: Triticale, hay

Field name: D43

Crop: Triticale, hay

Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	167.21	5.96	69.47	1,309.41	1,105,000.00 gal
Furtado	Ground water	0.00	0.00	0.00	423.41	4,954,900.00 gal
Application event totals		167.21	5.96	69.47	1,732.82	

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D43 - 10/28/2022: Triticale, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/09/2023	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
WW Application	Process wastewater	178.78	19.09	208.84	1,314.20	859,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	44.02	5,141,900.00 gal
Application event totals		178.78	19.09	208.84	1,358.22	

D43 - 06/12/2023: Corn, silage

Field name: D43

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	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
Wastewater Applictation	Process wastewater	132.78	14.18	155.11	976.09	638,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	61.72	7,209,000.00 gal
Application event totals		132.78	14.18	155.11	1,037.81	
06/12/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	53.07	6,198,000.00 gal
Application event totals		0.00	0.00	0.00	53.07	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	52.31	6,110,000.00 gal
Application event totals		0.00	0.00	0.00	52.31	

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D43 - 06/12/2023: 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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	73.87	8,627,790.00 gal
Application event totals		0.00	0.00	0.00	73.87	
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
WW Application	Process wastewater	160.88	17.18	187.93	1,182.63	773,000.00 gal
Laguna Irrigation District	Surface water	0.00	0.00	0.00	0.08	8,973.20 gal
Application event totals		160.88	17.18	187.93	1,182.70	
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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	0.07	7,763.30 gal
Application event totals		0.00	0.00	0.00	0.07	
08/27/2023	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
Laguna Irrigation District	Surface water	0.00	0.00	0.00	0.06	6,956.80 gal
Application event totals		0.00	0.00	0.00	0.06	

R11 - 12/05/2022: Triticale, hay

Field name: R11

Crop: Triticale, hay

Plant date: 12/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/05/2023	Dry Farmed	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
No Nutrients Applied	Other liquid nutrient source	0.00	0.00	0.00	0.00	
Application event totals		0.00	0.00	0.00	0.00	

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R12 - 10/20/2022: Triticale, soft dough

Field name: R12Crop: Triticale, soft doughPlant date: 10/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/06/2022	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
Borba	Ground water	0.00	0.00	0.00	405.36	3,895,500.00 gal
Application event totals		0.00	0.00	0.00	405.36	

R13 - 10/29/2017: Alfalfa, hay

Field name: R13Crop: Alfalfa, hayPlant date: 10/29/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/21/2023	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
River Pump	Surface water	0.00	0.00	0.00	38.22	11,903,000.00 gal
Application event totals		0.00	0.00	0.00	38.22	
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
River Pump	Surface water	0.00	0.00	0.00	15.94	4,964,500.00 gal
Application event totals		0.00	0.00	0.00	15.94	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
River Pump	Surface water	0.00	0.00	0.00	21.63	6,737,100.00 gal
Application event totals		0.00	0.00	0.00	21.63	

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R13 - 10/29/2017: Alfalfa, hay

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
River Pump	Surface water	0.00	0.00	0.00	9.44	2,940,000.00 gal
Application event totals		0.00	0.00	0.00	9.44	
07/11/2023	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
River Pump	Surface water	0.00	0.00	0.00	8.77	2,730,000.00 gal
Application event totals		0.00	0.00	0.00	8.77	
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
River Pump	Surface water	0.00	0.00	0.00	10.62	3,307,500.00 gal
Application event totals		0.00	0.00	0.00	10.62	
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
River Pump	Surface water	0.00	0.00	0.00	4.96	1,543,700.00 gal
Application event totals		0.00	0.00	0.00	4.96	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
River Pump	Surface water	0.00	0.00	0.00	15.55	4,841,600.00 gal
Application event totals		0.00	0.00	0.00	15.55	
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
River Pump	Surface water	0.00	0.00	0.00	8.39	2,612,200.00 gal
Application event totals		0.00	0.00	0.00	8.39	

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R13 - 10/29/2017: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
River Pump	Surface water	0.00	0.00	0.00	39.07	12,169,800.00 gal
Application event totals		0.00	0.00	0.00	39.07	
10/02/2023	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
Borba	Ground water	0.00	0.00	0.00	427.60	14,293,100.00 gal
Application event totals		0.00	0.00	0.00	427.60	
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
Borba	Ground water	0.00	0.00	0.00	92.36	3,087,300.00 gal
Application event totals		0.00	0.00	0.00	92.36	

R14 - 11/09/2017: Alfalfa, hay

Field name:	R14	Plant date:	11/09/2017			
Crop:	Alfalfa, hay					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/23/2023	Surface (irrigation)	No precipitation	Heavy rain		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
River Pump	Surface water	0.00	0.00	0.00	16.08	6,072,000.00 gal
Application event totals		0.00	0.00	0.00	16.08	
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
River Pump	Surface water	0.00	0.00	0.00	39.16	14,786,500.00 gal
Application event totals		0.00	0.00	0.00	39.16	

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R14 - 11/09/2017: Alfalfa, hay

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
River Pump	Surface water	0.00	0.00	0.00	1.31	494,000.00 gal
Application event totals		0.00	0.00	0.00	1.31	
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
River Pump	Surface water	0.00	0.00	0.00	13.62	5,145,000.00 gal
Application event totals		0.00	0.00	0.00	13.62	
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
River Pump	Surface water	0.00	0.00	0.00	13.76	5,197,500.00 gal
Application event totals		0.00	0.00	0.00	13.76	
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
River Pump	Surface water	0.00	0.00	0.00	16.40	6,195,000.00 gal
Application event totals		0.00	0.00	0.00	16.40	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
River Pump	Surface water	0.00	0.00	0.00	7.15	2,699,500.00 gal
Application event totals		0.00	0.00	0.00	7.15	
08/18/2023	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
River Pump	Surface water	0.00	0.00	0.00	49.51	18,697,000.00 gal
Application event totals		0.00	0.00	0.00	49.51	

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R14 - 11/09/2017: Alfalfa, hay

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
River Pump	Surface water	0.00	0.00	0.00	6.99	2,641,000.00 gal
Application event totals		0.00	0.00	0.00	6.99	
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
River Pump	Surface water	0.00	0.00	0.00	45.60	17,218,500.00 gal
Application event totals		0.00	0.00	0.00	45.60	
10/17/2023	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
Borba	Ground water	0.00	0.00	0.00	383.68	15,550,000.00 gal
Application event totals		0.00	0.00	0.00	383.68	

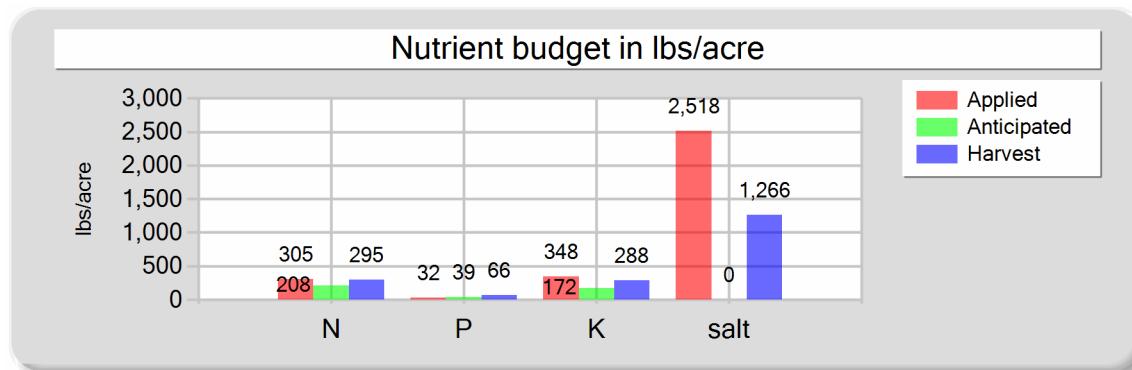
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B. NUTRIENT BUDGET

D15 - 04/17/2023: Corn, silage

Field name: D15 Crop: Corn, silage Plant date: 04/17/2023



	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	298.29	31.85	348.44	2,192.72
Fresh water	0.00	0.00	0.00	325.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.29	31.85	348.44	2,517.95
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	295.45	65.65	288.41	1,266.20
Nutrient balance	9.84	-33.80	60.03	1,251.75
Applied to removed ratio	1.03	0.49	1.21	1.99

Fresh water applied
23,689,900.00 gallons
872.42 acre-inches
28.14 inches/acre
Process wastewater applied
1,481,000.00 gallons
54.54 acre-inches
1.76 inches/acre
Total harvests for the crop
1 harvests

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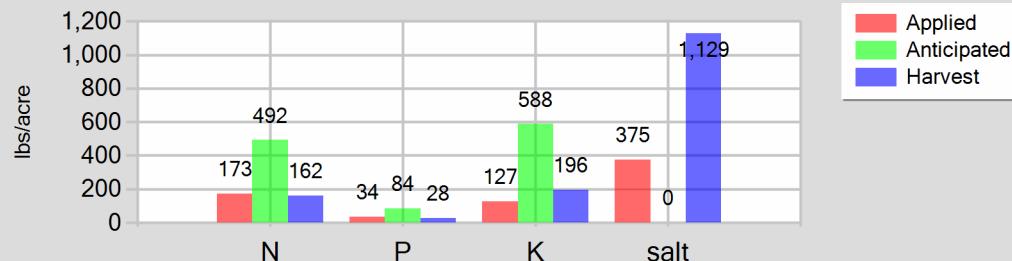
D15 - 08/02/2023: Sorghum

Field name: D15

Crop: Sorghum

Plant date: 08/02/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	149.09	29.23	108.89	0.00
Process wastewater	16.91	4.31	17.90	130.42
Fresh water	0.00	0.00	0.00	244.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	173.01	33.54	126.80	375.41
Anticipated crop nutrient removal	492.00	84.00	588.00	0.00
Actual crop nutrient removal	161.61	27.99	195.92	1,128.58
Nutrient balance	11.39	5.55	-69.13	-753.17
Applied to removed ratio	1.07	1.20	0.65	0.33

Fresh water applied

17,844,900.00 gallons
657.17 acre-inches
21.20 inches/acre

Process wastewater applied

190,000.00 gallons
7.00 acre-inches
0.23 inches/acre

Total harvests for the crop

1 harvests

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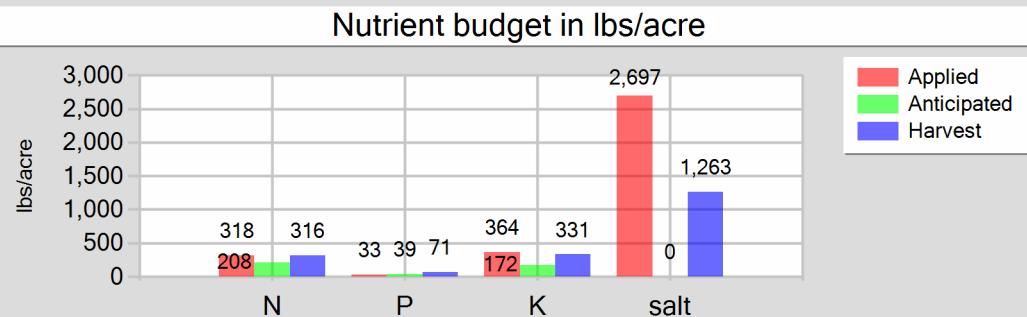
Reporting period 01/01/2023 to 12/31/2023.

D16 - 04/17/2023: Corn, silage

Field name: D16

Crop: Corn, silage

Plant date: 04/17/2023



	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	311.44	33.26	363.80	2,289.37
Fresh water	0.00	0.00	0.00	407.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	318.44	33.26	363.80	2,697.08
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	315.63	70.70	330.78	1,262.50
Nutrient balance	2.81	-37.44	33.03	1,434.58
Applied to removed ratio	1.01	0.47	1.10	2.14

Fresh water applied

25,300,210.00 gallons
931.72 acre-inches
37.27 inches/acre

Process wastewater applied

1,247,000.00 gallons
45.92 acre-inches
1.84 inches/acre

Total harvests for the crop

1 harvests

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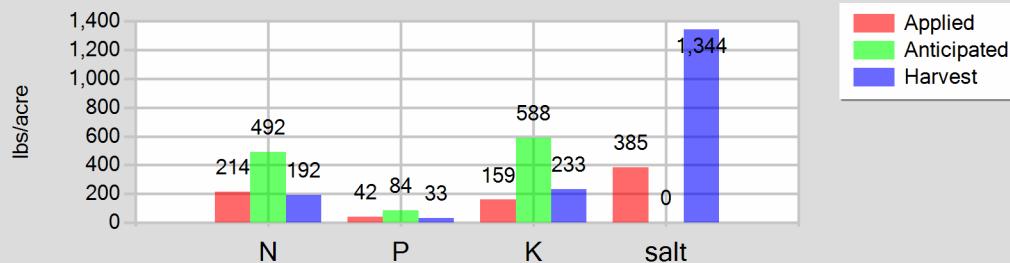
D16 - 08/02/2023: Sorghum

Field name: D16

Crop: Sorghum

Plant date: 08/02/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	184.87	36.25	135.03	0.00
Process wastewater	22.41	5.71	23.72	172.79
Fresh water	0.00	0.00	0.00	212.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	214.28	41.96	158.75	384.98
Anticipated crop nutrient removal	492.00	84.00	588.00	0.00
Actual crop nutrient removal	192.39	33.32	233.23	1,343.50
Nutrient balance	21.89	8.64	-74.49	-958.52
Applied to removed ratio	1.11	1.26	0.68	0.29

Fresh water applied

12,464,300.00 gallons
459.02 acre-inches
18.36 inches/acre

Process wastewater applied

203,000.00 gallons
7.48 acre-inches
0.30 inches/acre

Total harvests for the crop

1 harvests

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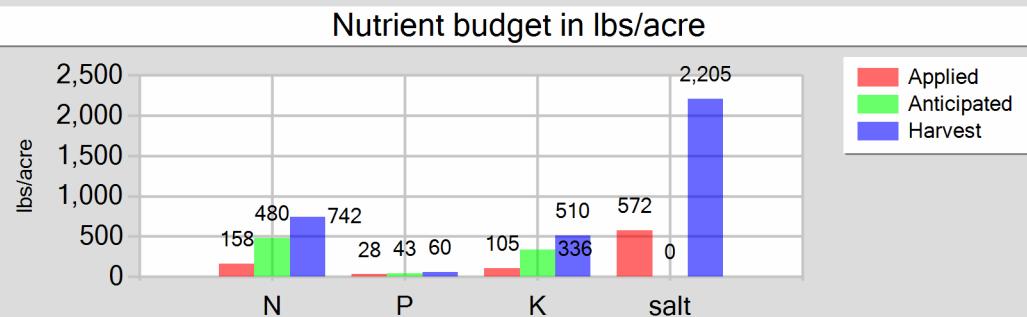
Reporting period 01/01/2023 to 12/31/2023.

D17 - 02/01/2023: Alfalfa, hay

Field name: D17

Crop: Alfalfa, hay

Plant date: 02/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	144.43	28.32	105.49	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	572.29
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	158.43	28.32	105.49	572.29
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	741.95	59.80	510.21	2,205.29
Nutrient balance	-583.52	-31.48	-404.72	-1,633.01
Applied to removed ratio	0.21	0.47	0.21	0.26

Fresh water applied

26,893,500.00 gallons
990.40 acre-inches
49.52 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

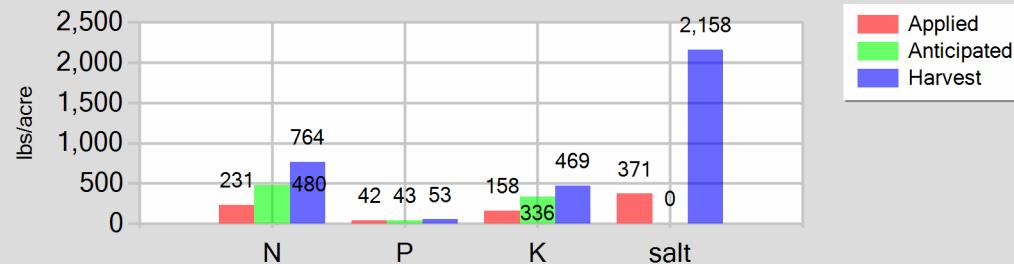
D21 - 02/01/2023: Alfalfa, hay

Field name: D21

Crop: Alfalfa, hay

Plant date: 02/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	216.65	42.48	158.24	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	371.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	230.65	42.48	158.24	371.11
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	764.00	53.06	468.66	2,157.58
Nutrient balance	-533.35	-10.58	-310.42	-1,786.47
Applied to removed ratio	0.30	0.80	0.34	0.17

Fresh water applied

39,699,850.00 *gallons*
1,462.01 *acre-inches*
34.00 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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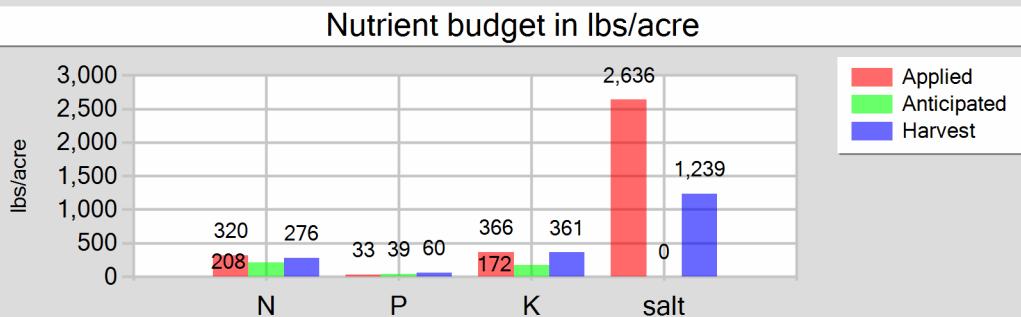
Reporting period 01/01/2023 to 12/31/2023.

D22 - 04/18/2023: Corn, silage

Field name: D22

Crop: Corn, silage

Plant date: 04/18/2023



	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	312.85	33.48	366.28	2,304.95
Fresh water	0.00	0.00	0.00	330.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	319.85	33.48	366.28	2,635.70
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	276.48	59.72	360.53	1,238.62
Nutrient balance	43.38	-26.23	5.75	1,397.08
Applied to removed ratio	1.16	0.56	1.02	2.13

Fresh water applied
31,863,409.40 gallons
1,173.42 acre-inches
28.62 inches/acre

Process wastewater applied
2,059,000.00 gallons
75.83 acre-inches
1.85 inches/acre

Total harvests for the crop
1 harvests

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

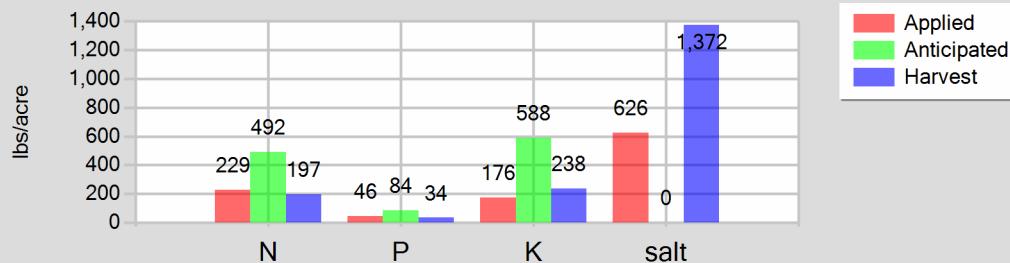
D22 - 08/04/2023: Sorghum

Field name: D22

Crop: Sorghum

Plant date: 08/04/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	179.66	35.23	131.22	0.00
Process wastewater	42.61	10.85	45.09	328.54
Fresh water	0.00	0.00	0.00	297.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	229.27	46.08	176.32	626.28
Anticipated crop nutrient removal	492.00	84.00	588.00	0.00
Actual crop nutrient removal	196.52	34.03	238.24	1,372.37
Nutrient balance	32.74	12.04	-61.93	-746.09
Applied to removed ratio	1.17	1.35	0.74	0.46

Fresh water applied

28,683,400.00 gallons
1,056.31 acre-inches
25.76 inches/acre

Process wastewater applied

633,000.00 gallons
23.31 acre-inches
0.57 inches/acre

Total harvests for the crop

1 harvests

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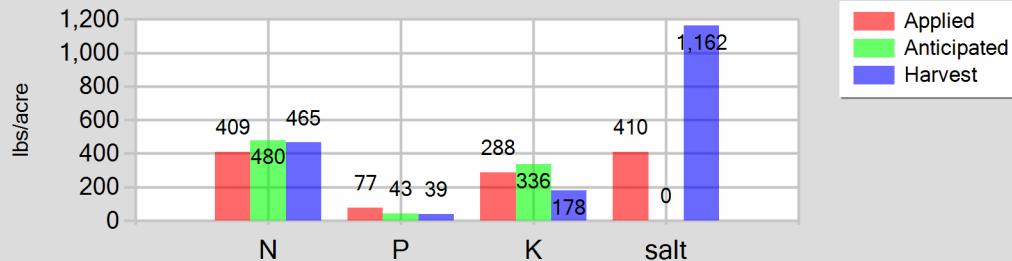
D23 - 01/08/2020: Alfalfa, hay

Field name: D23

Crop: Alfalfa, hay

Plant date: 01/08/2020

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	31,070,800.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,144.23 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.14 inches/acre
Dry manure	394.78	77.41	288.34	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	410.30	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	408.78	77.41	288.34	410.30	
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00	
Actual crop nutrient removal	464.90	39.16	178.13	1,162.25	
Nutrient balance	-56.12	38.25	110.22	-751.94	
Applied to removed ratio	0.88	1.98	1.62	0.35	
Total harvests for the crop					1 harvests

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

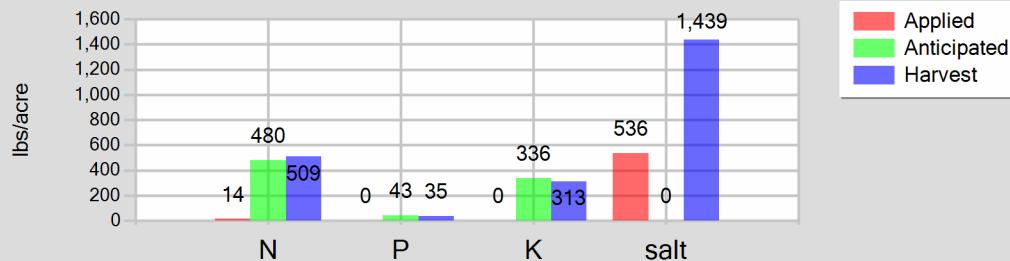
D24 - 01/22/2022: Alfalfa, hay

Field name: D24

Crop: Alfalfa, hay

Plant date: 01/22/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	535.79
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	535.79
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	509.50	35.38	312.54	1,438.85
Nutrient balance	-495.50	-35.38	-312.54	-903.06
Applied to removed ratio	0.03	0.00	0.00	0.37

Fresh water applied

18,883,700.00 *gallons*
695.42 *acre-inches*
46.36 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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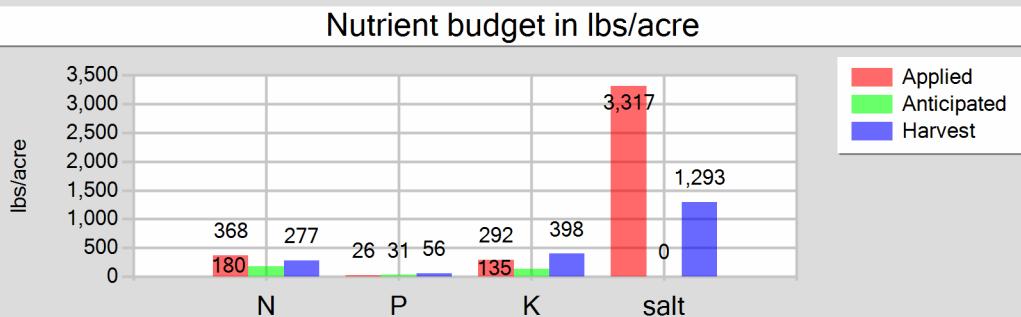
Reporting period 01/01/2023 to 12/31/2023.

D25 - 10/22/2022: Triticale, soft dough

Field name: D25

Crop: Triticale, soft dough

Plant date: 10/22/2022



	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	0.00	0.00	0.00	0.00
Process wastewater	361.41	26.25	291.51	2,740.02
Fresh water	0.00	0.00	0.00	577.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	368.41	26.25	291.51	3,317.32
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00
Actual crop nutrient removal	276.90	56.22	397.77	1,293.12
Nutrient balance	91.51	-29.98	-106.26	2,024.21
Applied to removed ratio	1.33	0.47	0.73	2.57

Fresh water applied
23,676,600.00 gallons
871.93 acre-inches
17.44 inches/acre

Process wastewater applied
3,416,000.00 gallons
125.80 acre-inches
2.52 inches/acre

Total harvests for the crop
1 harvests

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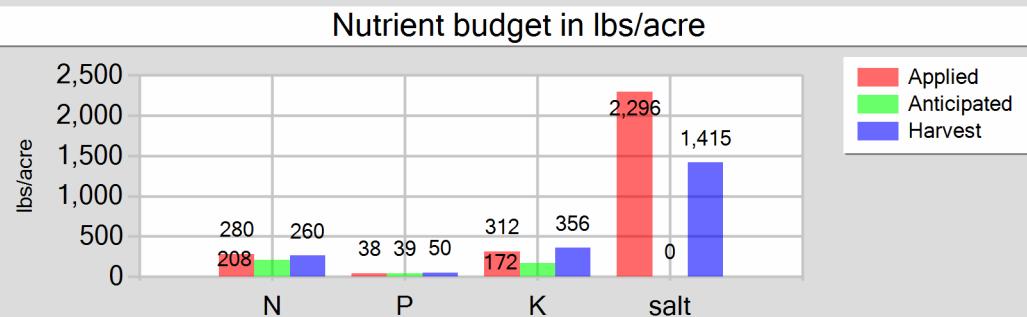
Reporting period 01/01/2023 to 12/31/2023.

D25 - 06/02/2023: Corn, silage

Field name: D25

Crop: Corn, silage

Plant date: 06/02/2023



	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	272.75	38.17	311.89	2,026.99
Fresh water	0.00	0.00	0.00	269.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.75	38.17	311.89	2,296.43
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	260.06	49.93	355.77	1,414.75
Nutrient balance	19.68	-11.76	-43.88	881.68
Applied to removed ratio	1.08	0.76	0.88	1.62

Fresh water applied

52,448,450.00 gallons
1,931.50 acre-inches
38.63 inches/acre

Process wastewater applied

2,803,000.00 gallons
103.22 acre-inches
2.06 inches/acre

Total harvests for the crop

1 harvests

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

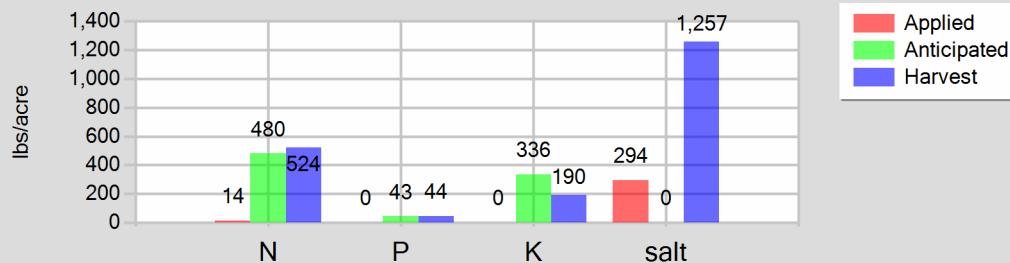
D26 - 02/19/2021: Alfalfa, hay

Field name: D26

Crop: Alfalfa, hay

Plant date: 02/19/2021

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	293.93
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	293.93
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	524.23	44.13	189.90	1,257.08
Nutrient balance	-510.23	-44.13	-189.90	-963.15
Applied to removed ratio	0.03	0.00	0.00	0.23

Fresh water applied

57,216,800.00 gallons
2,107.10 acre-inches
42.14 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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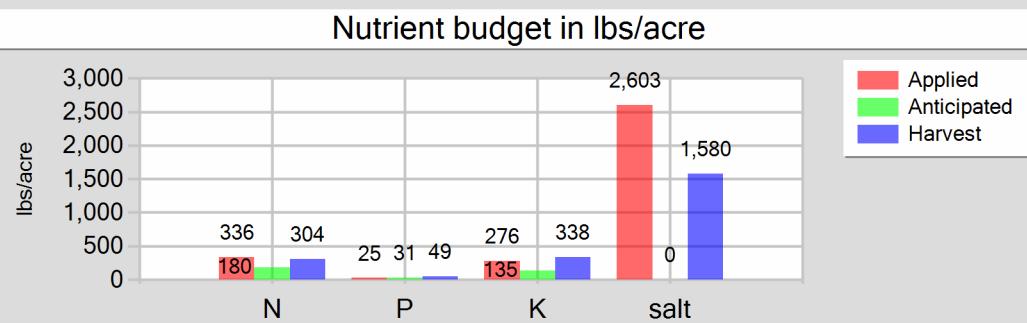
Reporting period 01/01/2023 to 12/31/2023.

D30 - 10/25/2022: Triticale, soft dough

Field name: D30

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	328.89	24.85	275.53	2,486.93
Fresh water	0.00	0.00	0.00	116.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	335.89	24.85	275.53	2,603.09
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00
Actual crop nutrient removal	303.76	48.60	338.19	1,579.58
Nutrient balance	32.12	-23.75	-62.67	1,023.52
Applied to removed ratio	1.11	0.51	0.81	1.65

Fresh water applied

17,279,250.00 gallons
636.34 acre-inches
9.79 inches/acre

Process wastewater applied

3,988,000.00 gallons
146.86 acre-inches
2.26 inches/acre

Total harvests for the crop

1 harvests

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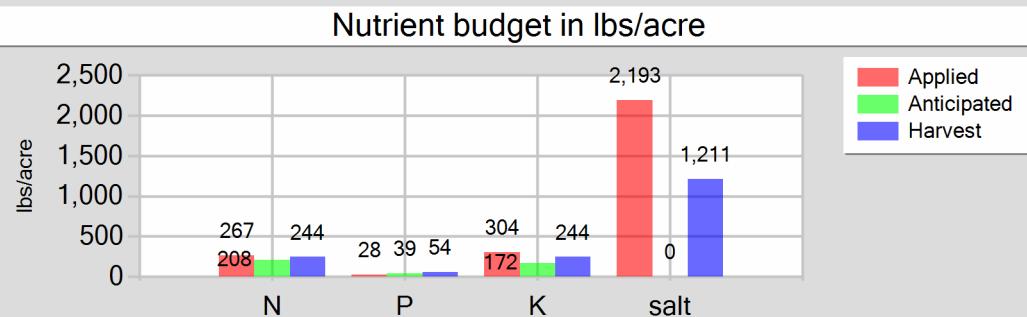
Reporting period 01/01/2023 to 12/31/2023.

D30 - 06/12/2023: Corn, silage

Field name: D30

Crop: Corn, silage

Plant date: 06/12/2023



	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	259.84	27.75	303.52	1,910.04
Fresh water	0.00	0.00	0.00	283.34
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	266.84	27.75	303.52	2,193.38
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	244.02	54.23	244.02	1,211.08
Nutrient balance	22.81	-26.48	59.50	982.30
Applied to removed ratio	1.09	0.51	1.24	1.81

Fresh water applied

71,700,900.00 *gallons*
2,640.50 *acre-inches*
40.62 *inches/acre*

Process wastewater applied

2,705,000.00 *gallons*
99.62 *acre-inches*
1.53 *inches/acre*

Total harvests for the crop

1 *harvests*

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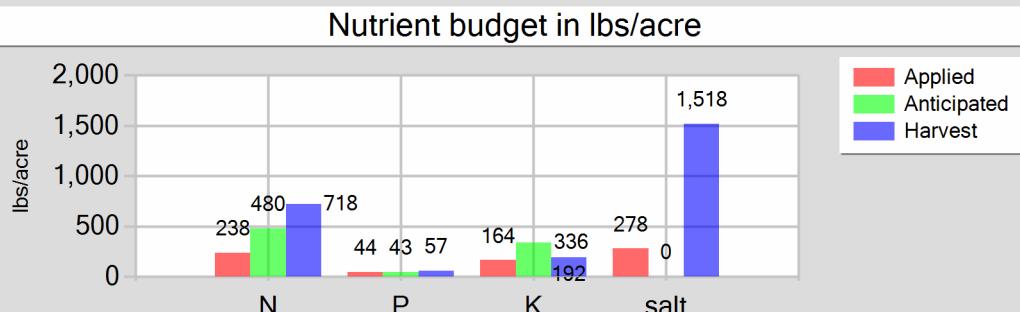
Reporting period 01/01/2023 to 12/31/2023.

D31 - 02/01/2023: Alfalfa, hay

Field name: D31

Crop: Alfalfa, hay

Plant date: 02/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	223.87	43.90	163.51	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	278.39
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	237.87	43.90	163.51	278.39
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	718.34	57.33	192.23	1,517.61
Nutrient balance	-480.47	-13.44	-28.72	-1,239.22
Applied to removed ratio	0.33	0.77	0.85	0.18

Fresh water applied

32,515,200.00 gallons
1,197.42 acre-inches
39.91 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

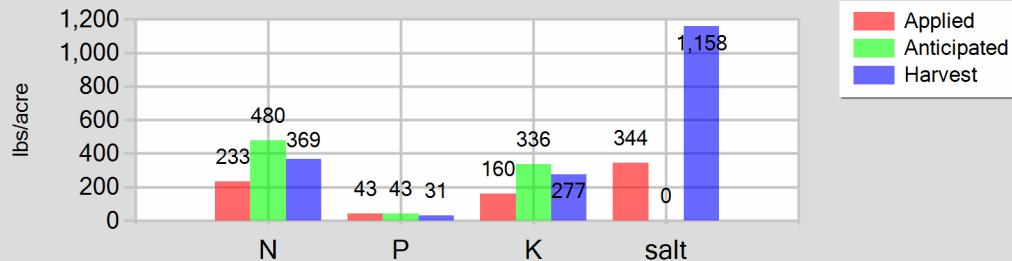
D32 - 02/10/2021: Alfalfa, hay

Field name: D32

Crop: Alfalfa, hay

Plant date: 02/10/2021

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	18,745,500.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	690.33 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	49.31 inches/acre
Dry manure	219.23	42.99	160.12	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	343.93	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	233.23	42.99	160.12	343.93	Process wastewater applied
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00	0.00 gallons
Actual crop nutrient removal	368.87	31.14	277.38	1,158.18	0.00 acre-inches
Nutrient balance	-135.64	11.84	-117.26	-814.26	0.00 inches/acre
Applied to removed ratio	0.63	1.38	0.58	0.30	Total harvests for the crop
					1 harvests

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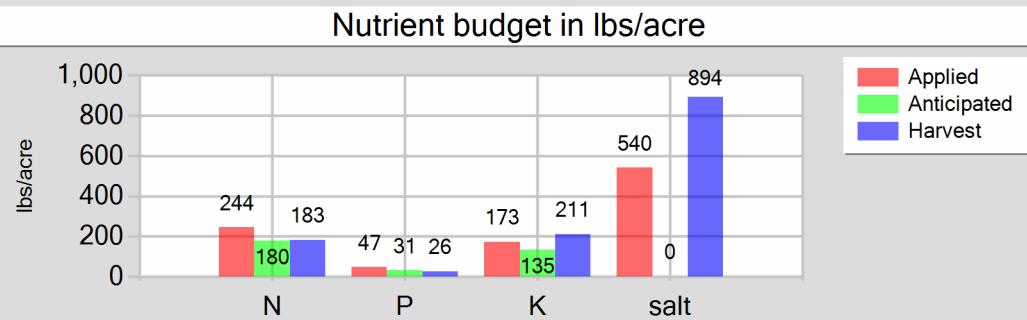
Reporting period 01/01/2023 to 12/31/2023.

D33 - 10/21/2022: Triticale, soft dough

Field name: D33

Crop: Triticale, soft dough

Plant date: 10/21/2022



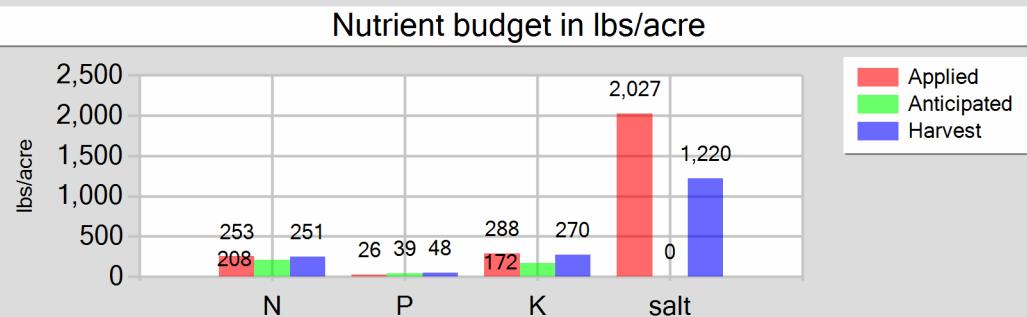
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	17,039,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	627.49 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.07 inches/acre
Dry manure	237.48	46.56	173.45	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	540.36	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	244.48	46.56	173.45	540.36	
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00	
Actual crop nutrient removal	183.34	26.03	210.50	894.07	
Nutrient balance	61.14	20.53	-37.05	-353.71	
Applied to removed ratio	1.33	1.79	0.82	0.60	
Total harvests for the crop					1 harvests

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

D33 - 06/06/2023: Corn, silage

Field name: D33 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	245.96	26.34	288.09	1,812.95
Fresh water	0.00	0.00	0.00	213.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	252.96	26.34	288.09	2,026.66
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	250.53	47.93	270.13	1,219.95
Nutrient balance	2.43	-21.59	17.96	806.71
Applied to removed ratio	1.01	0.55	1.07	1.66

Fresh water applied
43,263,991.30 gallons
1,593.27 acre-inches
30.64 inches/acre

Process wastewater applied
2,054,000.00 gallons
75.64 acre-inches
1.45 inches/acre

Total harvests for the crop
1 harvests

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

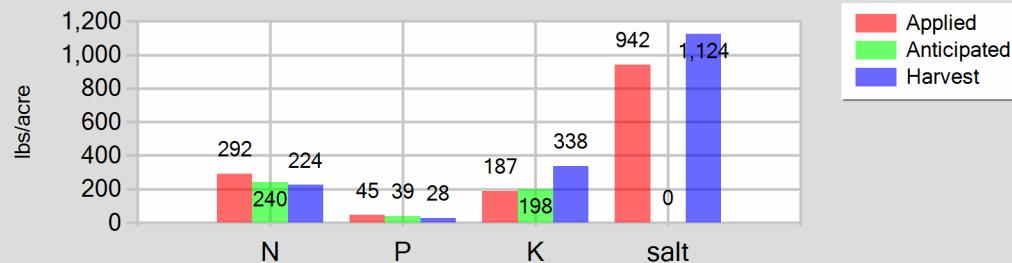
D34 - 10/26/2022: Triticale, hay

Field name: D34

Crop: Triticale, hay

Plant date: 10/26/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	216.65	42.48	158.24	0.00
Process wastewater	68.60	2.45	28.50	537.20
Fresh water	0.00	0.00	0.00	404.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.25	44.93	186.74	941.86
Anticipated crop nutrient removal	240.00	39.00	198.00	0.00
Actual crop nutrient removal	224.11	27.54	338.05	1,124.32
Nutrient balance	68.13	17.38	-151.31	-182.47
Applied to removed ratio	1.30	1.63	0.55	0.84

Fresh water applied

2,841,300.00 gallons
104.64 acre-inches
5.81 inches/acre

Process wastewater applied

272,000.00 gallons
10.02 acre-inches
0.56 inches/acre

Total harvests for the crop

1 harvests

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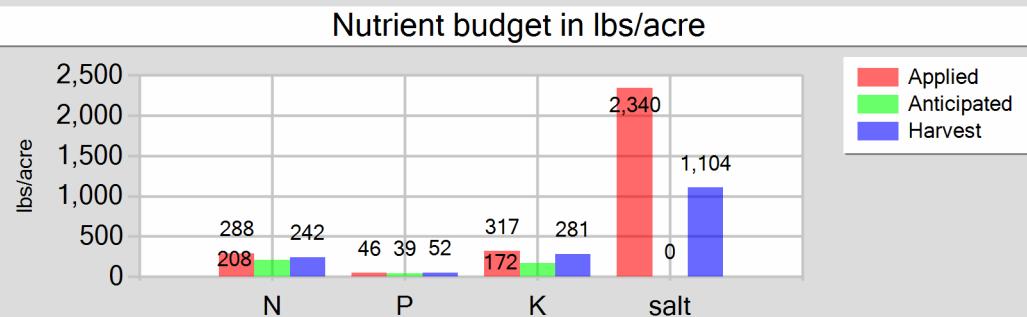
Reporting period 01/01/2023 to 12/31/2023.

D34 - 06/19/2023: Corn, silage

Field name: D34

Crop: Corn, silage

Plant date: 06/19/2023



	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	281.26	45.92	316.75	2,106.21
Fresh water	0.00	0.00	0.00	234.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.26	45.92	316.75	2,340.35
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	242.23	51.65	281.42	1,104.29
Nutrient balance	46.03	-5.73	35.33	1,236.05
Applied to removed ratio	1.19	0.89	1.13	2.12

Fresh water applied

16,407,900.00 *gallons*
604.25 *acre-inches*
33.57 *inches/acre*

Process wastewater applied

1,202,000.00 *gallons*
44.27 *acre-inches*
2.46 *inches/acre*

Total harvests for the crop

1 *harvests*

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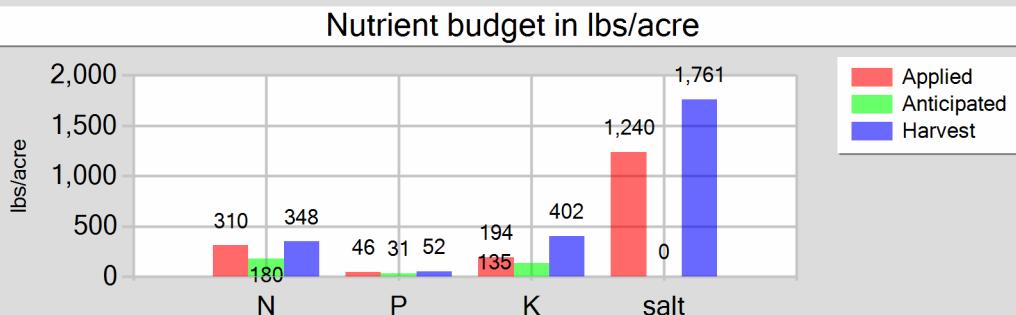
Reporting period 01/01/2023 to 12/31/2023.

D35 - 10/23/2022: Triticale, soft dough

Field name: D35

Crop: Triticale, soft dough

Plant date: 10/23/2022



	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	216.65	42.48	158.24	0.00
Process wastewater	86.25	3.08	35.83	675.44
Fresh water	0.00	0.00	0.00	564.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	309.90	45.56	194.07	1,239.59
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00
Actual crop nutrient removal	348.14	52.02	402.16	1,760.71
Nutrient balance	-38.24	-6.47	-208.09	-521.12
Applied to removed ratio	0.89	0.88	0.48	0.70

Fresh water applied

4,805,500.00 gallons
176.97 acre-inches
10.41 inches/acre

Process wastewater applied

323,000.00 gallons
11.89 acre-inches
0.70 inches/acre

Total harvests for the crop

1 harvests

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

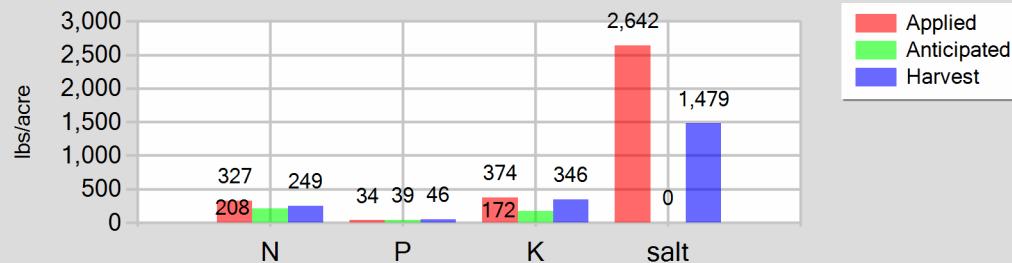
D35 - 06/01/2023: Corn, silage

Field name: D35

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	320.27	34.20	374.12	2,354.27
Fresh water	0.00	0.00	0.00	288.05
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.27	34.20	374.12	2,642.32
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	249.39	46.35	346.50	1,478.67
Nutrient balance	77.88	-12.15	27.62	1,163.65
Applied to removed ratio	1.31	0.74	1.08	1.79

Fresh water applied

19,064,300.00 gallons
702.07 acre-inches
41.30 inches/acre

Process wastewater applied

872,000.00 gallons
32.11 acre-inches
1.89 inches/acre

Total harvests for the crop

1 harvests

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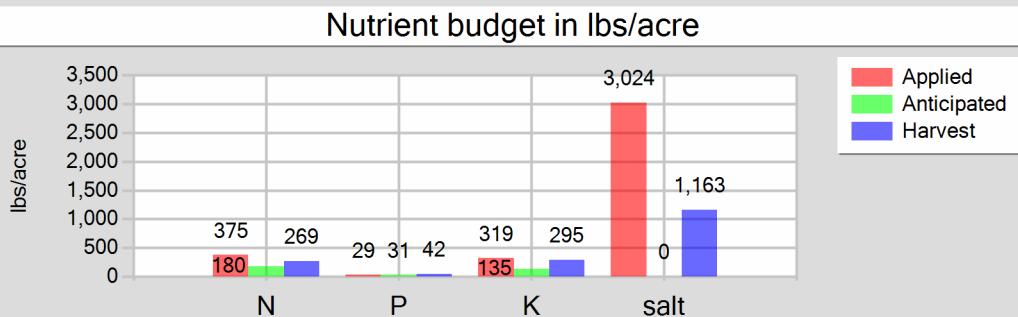
Reporting period 01/01/2023 to 12/31/2023.

D40 - 10/20/2022: Triticale, soft dough

Field name: D40

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	6,251,100.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	230.21 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.54 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	368.31	28.81	318.88	2,778.41	Process wastewater applied
Fresh water	0.00	0.00	0.00	245.09	1,154,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	42.50 acre-inches
Total nutrients applied	375.31	28.81	318.88	3,023.51	2.50 inches/acre
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00	
Actual crop nutrient removal	268.72	42.43	295.44	1,162.90	Total harvests for the crop
Nutrient balance	106.58	-13.62	23.44	1,860.61	1 harvests
Applied to removed ratio	1.40	0.68	1.08	2.60	

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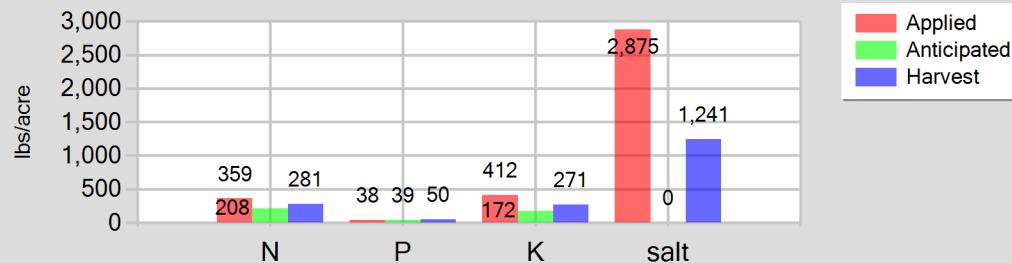
D40 - 06/09/2023: Corn, silage

Field name: D40

Crop: Corn, silage

Plant date: 06/09/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	352.24	37.67	412.08	2,593.21
Fresh water	0.00	0.00	0.00	282.01
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	359.24	37.67	412.08	2,875.22
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	280.51	49.65	270.58	1,241.21
Nutrient balance	78.72	-11.98	141.50	1,634.01
Applied to removed ratio	1.28	0.76	1.52	2.32

Fresh water applied

19,762,820.00 gallons
727.80 acre-inches
40.43 inches/acre

Process wastewater applied

1,017,000.00 gallons
37.45 acre-inches
2.08 inches/acre

Total harvests for the crop

1 harvests

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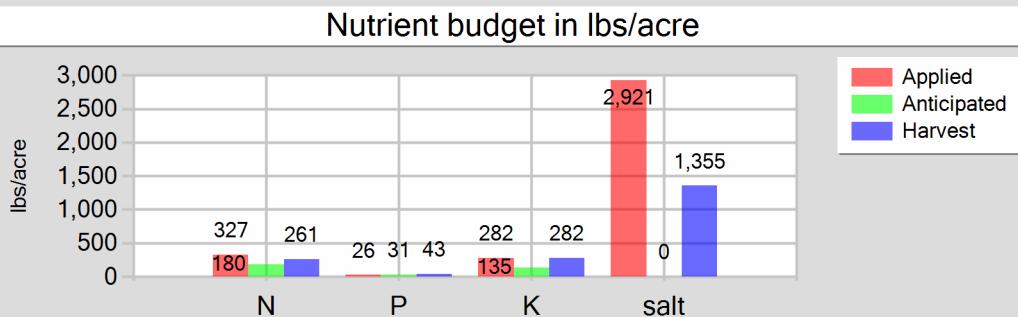
Reporting period 01/01/2023 to 12/31/2023.

D41 - 10/27/2022: Triticale, soft dough

Field name: D41

Crop: Triticale, soft dough

Plant date: 10/27/2022



	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	320.50	25.51	282.13	2,414.79
Fresh water	0.00	0.00	0.00	506.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.50	25.51	282.13	2,921.35
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00
Actual crop nutrient removal	261.46	42.53	281.93	1,354.53
Nutrient balance	66.04	-17.02	0.19	1,566.81
Applied to removed ratio	1.25	0.60	1.00	2.16

Fresh water applied

9,375,500.00 gallons
345.27 acre-inches
11.51 inches/acre

Process wastewater applied

1,761,000.00 gallons
64.85 acre-inches
2.16 inches/acre

Total harvests for the crop

1 harvests

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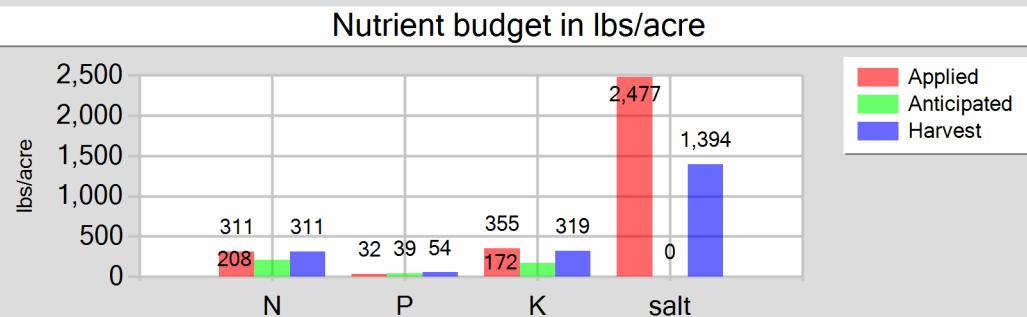
Reporting period 01/01/2023 to 12/31/2023.

D41 - 06/07/2023: Corn, silage

Field name: D41

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	303.86	32.45	354.95	2,233.68
Fresh water	0.00	0.00	0.00	243.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	310.86	32.45	354.95	2,477.29
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	311.04	53.63	319.09	1,394.34
Nutrient balance	-0.18	-21.18	35.86	1,082.95
Applied to removed ratio	1.00	0.61	1.11	1.78

Fresh water applied

28,452,823.00 gallons
1,047.82 acre-inches
34.93 inches/acre

Process wastewater applied

1,460,000.00 gallons
53.77 acre-inches
1.79 inches/acre

Total harvests for the crop

1 harvests

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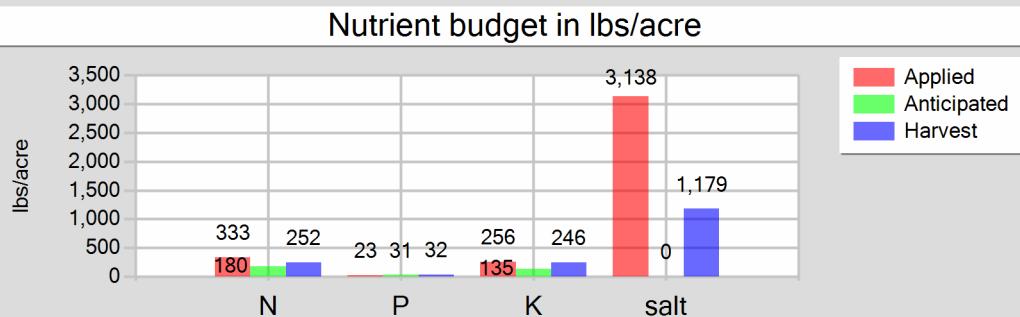
Reporting period 01/01/2023 to 12/31/2023.

D42 - 10/27/2022: Triticale, soft dough

Field name: D42

Crop: Triticale, soft dough

Plant date: 10/27/2022



	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	326.27	22.98	255.65	2,478.40
Fresh water	0.00	0.00	0.00	660.03
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	333.27	22.98	255.65	3,138.43
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00
Actual crop nutrient removal	251.53	31.62	245.78	1,178.61
Nutrient balance	81.74	-8.64	9.86	1,959.82
Applied to removed ratio	1.32	0.73	1.04	2.66

Fresh water applied

9,751,000.00 gallons
359.10 acre-inches
19.95 inches/acre

Process wastewater applied

1,121,000.00 gallons
41.28 acre-inches
2.29 inches/acre

Total harvests for the crop

1 harvests

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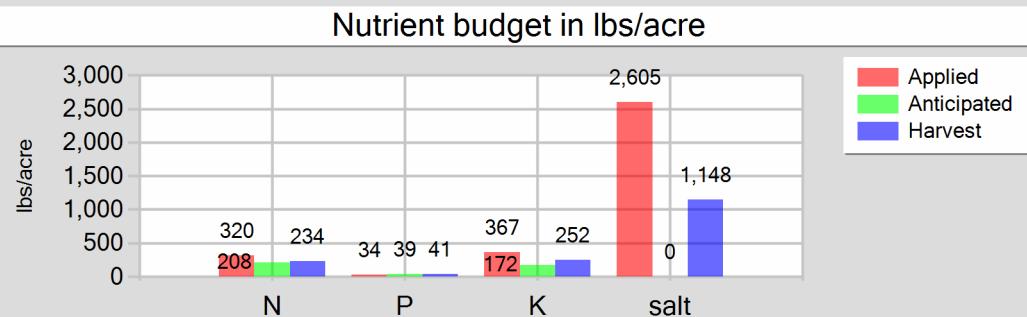
Reporting period 01/01/2023 to 12/31/2023.

D42 - 06/08/2023: Corn, silage

Field name: D42

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	0.00	0.00	0.00	0.00
Process wastewater	313.47	33.56	367.11	2,310.17
Fresh water	0.00	0.00	0.00	295.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	320.47	33.56	367.11	2,605.41
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	233.76	41.01	252.22	1,148.30
Nutrient balance	86.71	-7.45	114.89	1,457.10
Applied to removed ratio	1.37	0.82	1.46	2.27

Fresh water applied

20,689,100.00 *gallons*
761.91 *acre-inches*
42.33 *inches/acre*

Process wastewater applied

906,000.00 *gallons*
33.36 *acre-inches*
1.85 *inches/acre*

Total harvests for the crop

1 *harvests*

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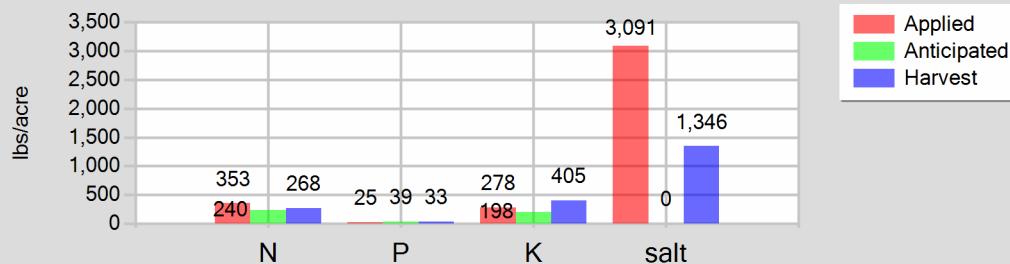
D43 - 10/28/2022: Triticale, hay

Field name: D43

Crop: Triticale, hay

Plant date: 10/28/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	345.99	25.05	278.30	2,623.61
Fresh water	0.00	0.00	0.00	467.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	352.99	25.05	278.30	3,091.05
Anticipated crop nutrient removal	240.00	39.00	198.00	0.00
Actual crop nutrient removal	268.21	32.96	404.56	1,345.54
Nutrient balance	84.78	-7.91	-126.26	1,745.51
Applied to removed ratio	1.32	0.76	0.69	2.30

Fresh water applied

10,096,800.00 gallons
371.83 acre-inches
12.39 inches/acre

Process wastewater applied

1,964,000.00 gallons
72.33 acre-inches
2.41 inches/acre

Total harvests for the crop

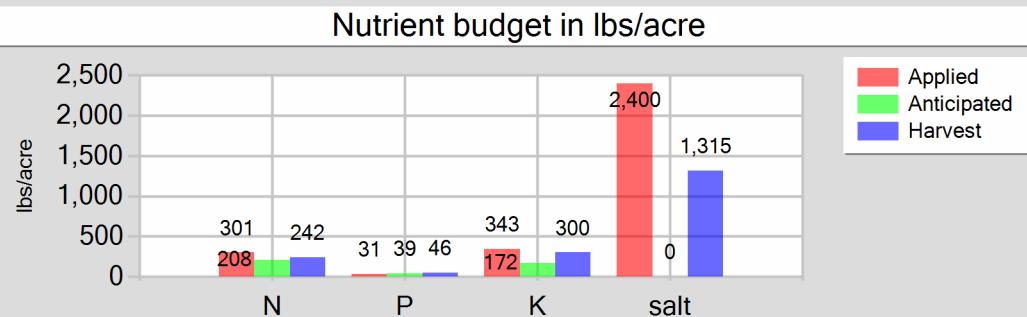
1 harvests

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D43 - 06/12/2023: Corn, silage

Field name: D43 Crop: Corn, silage Plant date: 06/12/2023



	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	293.66	31.36	343.04	2,158.71
Fresh water	0.00	0.00	0.00	241.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.66	31.36	343.04	2,399.89
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	241.80	46.43	299.84	1,315.41
Nutrient balance	58.86	-15.07	43.20	1,084.48
Applied to removed ratio	1.24	0.68	1.14	1.82

Fresh water applied
28,168,483.30 gallons
1,037.35 acre-inches
34.58 inches/acre

Process wastewater applied
1,411,000.00 gallons
51.96 acre-inches
1.73 inches/acre

Total harvests for the crop
1 harvests

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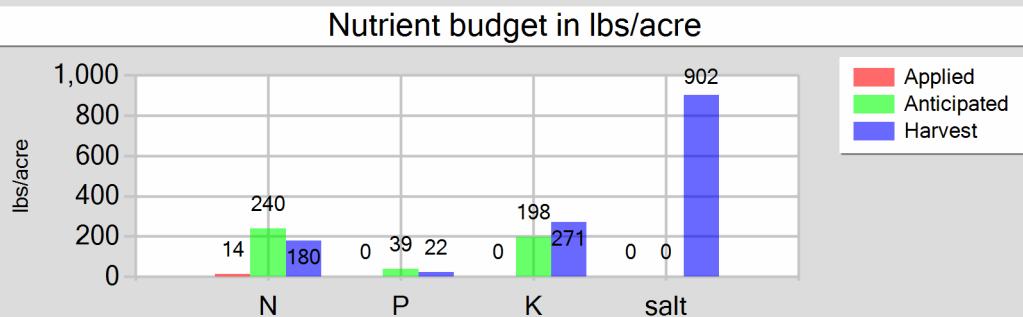
Reporting period 01/01/2023 to 12/31/2023.

R11 - 12/05/2022: Triticale, hay

Field name: R11

Crop: Triticale, hay

Plant date: 12/05/2022



	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	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	0.00
Anticipated crop nutrient removal	240.00	39.00	198.00	0.00
Actual crop nutrient removal	179.76	22.09	271.15	901.84
Nutrient balance	-165.76	-22.09	-271.15	-901.84
Applied to removed ratio	0.08	0.00	0.00	0.00

Fresh water applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

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

Total harvests for the crop
1 harvests

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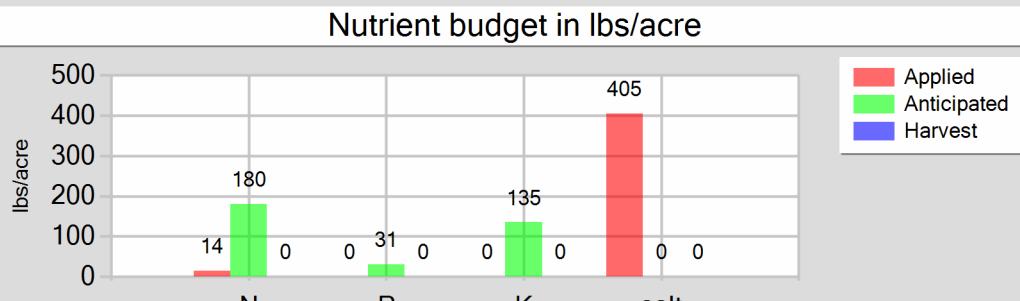
Reporting period 01/01/2023 to 12/31/2023.

R12 - 10/20/2022: Triticale, soft dough

Field name: R12

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	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	405.36
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	405.36
Anticipated crop nutrient removal	180.00	30.60	135.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	14.00	0.00	0.00	405.36
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied

3,895,500.00 gallons
143.46 acre-inches
6.24 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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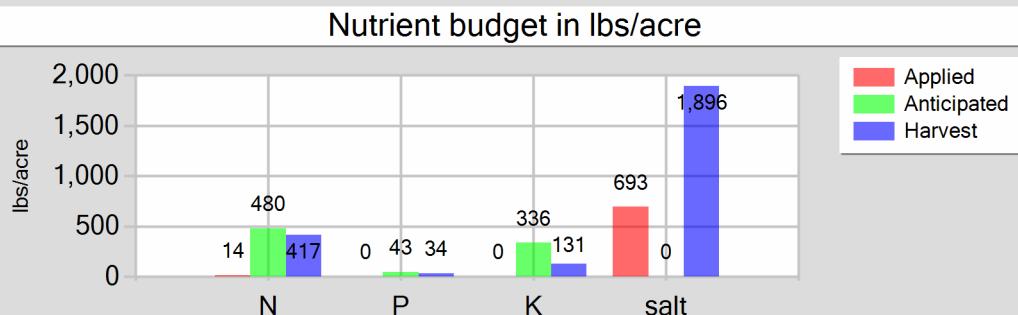
Reporting period 01/01/2023 to 12/31/2023.

R13 - 10/29/2017: Alfalfa, hay

Field name: R13

Crop: Alfalfa, hay

Plant date: 10/29/2017



	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	0.00	0.00	0.00	692.54
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	692.54
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	417.28	33.52	130.62	1,895.70
Nutrient balance	-403.28	-33.52	-130.62	-1,203.16
Applied to removed ratio	0.03	0.00	0.00	0.37

Fresh water applied

71,129,800.00 gallons
2,619.47 acre-inches
32.74 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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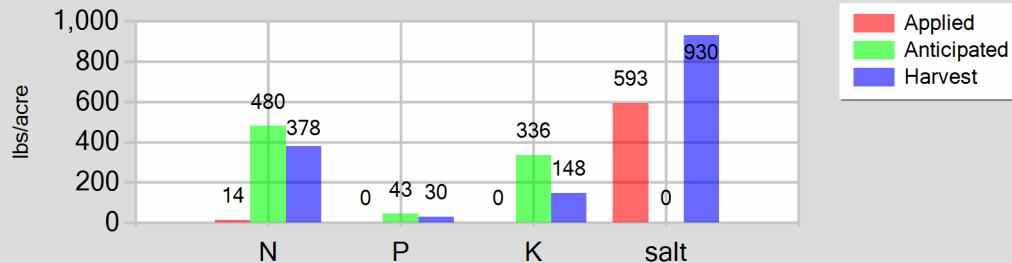
R14 - 11/09/2017: Alfalfa, hay

Field name: R14

Crop: Alfalfa, hay

Plant date: 11/09/2017

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	593.26
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	593.26
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	378.18	30.34	147.63	930.28
Nutrient balance	-364.18	-30.34	-147.63	-337.02
Applied to removed ratio	0.04	0.00	0.00	0.64

Fresh water applied

94,696,000.00 *gallons*
3,487.33 *acre-inches*
35.95 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****Separator**

Sample and source description: Separator

Sample date: 12/09/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 81.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,900.00	2,800.00	8,800.00							
DL	100.00	100.00	100.00							

Manure

Sample and source description: Manure

Sample date: 09/28/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 82.3 %

	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	20,400.00	4,000.00	14,900.00							
DL	100.00	100.00	100.00							

B. PROCESS WASTEWATER ANALYSES**Lagoon**

Sample and source description: Lagoon

Sample date: 12/19/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.00

	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	543.00	388.00		1.00	19.40	226.00								7,160.00	4,260
DL	1.00	0.50		0.10	0.10	1.00								10.00	10

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Lagoon

Sample and source description: Lagoon

Sample date: 02/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	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	745.00	255.00		3.20	79.90	874.00	241.00	74.20	373.00	3,600.00	3,600.00	6.40	504.00	8,710.00	5,500
DL	1.00	0.50		0.10	0.10	0.50	0.10	0.10	1.00	5.00	10.00	0.50	0.20	10.00	10

Lagoon Water

Sample and source description: Lagoon Water

Sample date: 09/29/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	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	330.00	261.00		0.70	84.20	350.00								4,360.00	2,550
DL	1.00	0.50		0.10	0.10	0.50								10.00	10

4th Qtr Process Water

Sample and source description: 4th Qtr Process Water

Sample date: 12/12/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.50

	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	295.00		1.30	105.00	487.00								6,100.00	4,300
DL	1.00	0.50		0.10	0.10	0.50								10.00	10

C. FRESH WATER ANALYSES

Borba

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

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

Borba**Borba**Sample description: BorbaSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								478.00	
DL			0.10								10.00	

Borges**Borges**Sample description: BorgesSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								534.00	
DL			0.10								10.00	

CH (D41)Sample description: CH (D41)Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								474.00	
DL			0.10								10.00	

Coelho (New)

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Coelho (New)**Coelho (New)**Sample description: Coelho (New)Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								458.00	
DL			0.10								10.00	

D22 Domestic**21947 (D22 Dom)**Sample description: 21947 (D22 Dom)Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								463.00	
DL			0.10								10.00	

D22 Well**D22**Sample description: D22Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								397.00	
DL			0.10								10.00	

D40

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

D40**D40**Sample description: D40Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								512.00	
DL			0.10								10.00	

Dairy New PSI Sub**Dairy New Sub**Sample description: Dairy New SubSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								316.00	
DL			0.10								10.00	

Dairy Old Submersible**Diary Old Sub**Sample description: Diary Old SubSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								1,140.00	
DL			0.10								10.00	

Furtado

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

Furtado**Furtado**Sample description: FurtadoSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value			0.00								512.00	
DL			0.10								10.00	

Laguna Irrigation District**Lemoore Weir**Sample description: Lemoore WeirSample date: 06/01/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								51.30	
DL		0.10	0.05								1.00	

River Pump**Lemoore Weir**Sample description: Lemoore WeirSample date: 06/01/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								51.30	
DL		0.10	0.05								1.00	

Riverdale Irrigation District

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Riverdale Irrigation District**Manning**Sample description: ManningSample date: 05/01/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value		0.00	0.00								84.20	51
DL		0.05	0.10								1.00	10

Santos**Santos**Sample description: SantosSample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value			0.00								386.00	
DL			0.10								10.00	

D. SOIL ANALYSES**D40****D40**Sample and source description: D40Sample date: 05/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (μ mhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value				6.80			
DL				0.50			

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D41

D41

Sample and source description: D41

Sample date: 05/17/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			57.30				
DL			0.50				

D42

D42

Sample and source description: D42

Sample date: 05/17/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			41.10				
DL			0.50				

D43

D43

Sample and source description: D43

Sample date: 05/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			42.00				
DL			0.50				

R13

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

R13

R13

Sample and source description: R13

Sample date: 05/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value				14.70			
DL				0.50			

R14

R14

Sample and source description: R14

Sample date: 05/17/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value				38.70			
DL				0.50			

E. PLANT TISSUE ANALYSES

D15 - 04/17/2023: Corn, silage

D15

Sample and source description: D15

Sample date: 07/31/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 43.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	2,800.00	12,300.00		5.40
DL	100.00	100.00	100.00		0.01

D15 - 08/02/2023: Sorghum

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

D15 - 08/02/2023: Sorghum

D15, D16, D22

Sample and source description: D15, D16, D22

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	3,100.00	21,700.00		12.50
DL	100.00	100.00	100.00		0.01

D16 - 04/17/2023: Corn, silage

D16

Sample and source description: D16

Sample date: 07/31/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 49.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,500.00	2,800.00	13,100.00		5.00
DL	100.00	100.00	100.00		0.01

D16 - 08/02/2023: Sorghum

D15, D16, D22

Sample and source description: D15, D16, D22

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	3,100.00	21,700.00		12.50
DL	100.00	100.00	100.00		0.01

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

D17 - 02/01/2023: Alfalfa, hay

D17-6

Sample and source description: D17-6

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 7.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	39,700.00	3,200.00	27,300.00		11.80
DL	100.00	100.00	100.00		0.01

D21 - 02/01/2023: Alfalfa, hay

D21-6

Sample and source description: D21-6

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 6.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	43,200.00	3,000.00	26,500.00		12.20
DL	100.00	100.00	100.00		0.01

D22 - 04/18/2023: Corn, silage

D22

Sample and source description: D22

Sample date: 07/31/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 50.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,500.00	2,700.00	16,300.00		5.60
DL	100.00	100.00	100.00		0.01

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

D22 - 08/04/2023: Sorghum

D15, D16, D22

Sample and source description: D15, D16, D22

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	3,100.00	21,700.00		12.50
DL	100.00	100.00	100.00		0.01

D23 - 01/08/2020: Alfalfa, hay

D23-4

Sample and source description: D23-4

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 8.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,800.00	3,100.00	14,100.00		9.20
DL	100.00	100.00	100.00		0.01

D24 - 01/22/2022: Alfalfa, hay

D21-6

Sample and source description: D21-6

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 6.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	43,200.00	3,000.00	26,500.00		12.20
DL	100.00	100.00	100.00		0.01

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

D25 - 10/22/2022: Triticale, soft dough

D25

Sample and source description: D25

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 49.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,700.00	4,000.00	28,300.00		9.20
DL	100.00	100.00	100.00		0.01

D25 - 06/02/2023: Corn, silage

D25

Sample and source description: D25

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 49.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,500.00	2,400.00	17,100.00		6.80
DL	100.00	100.00	100.00		0.01

D26 - 02/19/2021: Alfalfa, hay

D26-5

Sample and source description: D26-5

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	39,200.00	3,300.00	14,200.00		9.40
DL	100.00	100.00	100.00		0.01

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

D30 - 10/25/2022: Triticale, soft dough

D30

Sample and source description: D30

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 46.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,000.00	2,400.00	16,700.00		7.80
DL	100.00	100.00	100.00		0.01

D30 - 06/12/2023: Corn, silage

D30

Sample and source description: D30

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 52.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	3,000.00	13,500.00		6.70
DL	100.00	100.00	100.00		0.01

D31 - 02/01/2023: Alfalfa, hay

D31-3

Sample and source description: D31-3

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 4.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	42,600.00	3,400.00	11,400.00		9.00
DL	100.00	100.00	100.00		0.01

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

D32 - 02/10/2021: Alfalfa, hay

D32-2

Sample and source description: D32-2

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 5.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,900.00	3,200.00	28,500.00		11.90
DL	100.00	100.00	100.00		0.01

D33 - 10/21/2022: Triticale, soft dough

D33

Sample and source description: D33

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 45.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,200.00	2,300.00	18,600.00		7.90
DL	100.00	100.00	100.00		0.01

D33 - 06/06/2023: Corn, silage

D33

Sample and source description: D33

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	2,200.00	12,400.00		5.60
DL	100.00	100.00	100.00		0.01

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D34 - 10/26/2022: Triticale, hay

Wheat Hay Composite Sample

Sample and source description: Wheat Hay Composite Sample

Sample date: 05/12/2021 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 4.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	2,200.00	27,000.00		8.98
DL	100.00	100.00	100.00		0.01

D34 - 06/19/2023: Corn, silage

9D34

Sample and source description: 9D34

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	2,900.00	15,800.00		6.20
DL	100.00	100.00	100.00		0.01

D35 - 10/23/2022: Triticale, soft dough

D35

Sample and source description: D35

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 51.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,400.00	2,600.00	20,100.00		8.80
DL	100.00	100.00	100.00		0.01

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D35 - 06/01/2023: Corn, silage

D35

Sample and source description: D35

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 53.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,100.00	15,700.00		6.70
DL	100.00	100.00	100.00		0.01

D40 - 10/20/2022: Triticale, soft dough

D40

Sample and source description: D40

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 52.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,100.00	2,700.00	18,800.00		7.40
DL	100.00	100.00	100.00		0.01

D40 - 06/09/2023: Corn, silage

D40

Sample and source description: D40

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,000.00	10,900.00		5.00
DL	100.00	100.00	100.00		0.01

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D41 - 10/27/2022: Triticale, soft dough

D41

Sample and source description: D41

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 57.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,600.00	2,700.00	17,900.00		8.60
DL	100.00	100.00	100.00		0.01

D41 - 06/07/2023: Corn, silage

D41

Sample and source description: D41

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 52.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,600.00	2,000.00	11,900.00		5.20
DL	100.00	100.00	100.00		0.01

D42 - 10/27/2022: Triticale, soft dough

D42

Sample and source description: D42

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,500.00	2,200.00	17,100.00		8.20
DL	100.00	100.00	100.00		0.01

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D42 - 06/08/2023: Corn, silage

D42

Sample and source description: D42

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	2,000.00	12,300.00		5.60
DL	100.00	100.00	100.00		0.01

D43 - 10/28/2022: Triticale, hay

Wheat Hay Composite Sample

Sample and source description: Wheat Hay Composite Sample

Sample date: 05/12/2021 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 4.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	2,200.00	27,000.00		8.98
DL	100.00	100.00	100.00		0.01

D43 - 06/12/2023: Corn, silage

D43

Sample and source description: D43

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,500.00	2,400.00	15,500.00		6.80
DL	100.00	100.00	100.00		0.01

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

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

R11 - 12/05/2022: Triticale, hay

Wheat Hay Composite Sample

Sample and source description: Wheat Hay Composite Sample

Sample date: 05/12/2021 Source of analysis: Other/estimated Method of reporting: Dry-weight

Moisture: 4.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	2,200.00	27,000.00		8.98
DL	100.00	100.00	100.00		0.01

R13 - 10/29/2017: Alfalfa, hay

R13-2

Sample and source description: R13-2

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 6.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,100.00	2,900.00	11,300.00		16.40
DL	100.00	100.00	100.00		0.01

R14 - 11/09/2017: Alfalfa, hay

R14-4

Sample and source description: R14-4

Sample date: 12/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,400.00	3,000.00	14,600.00		9.20
DL	100.00	100.00	100.00		0.01

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

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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

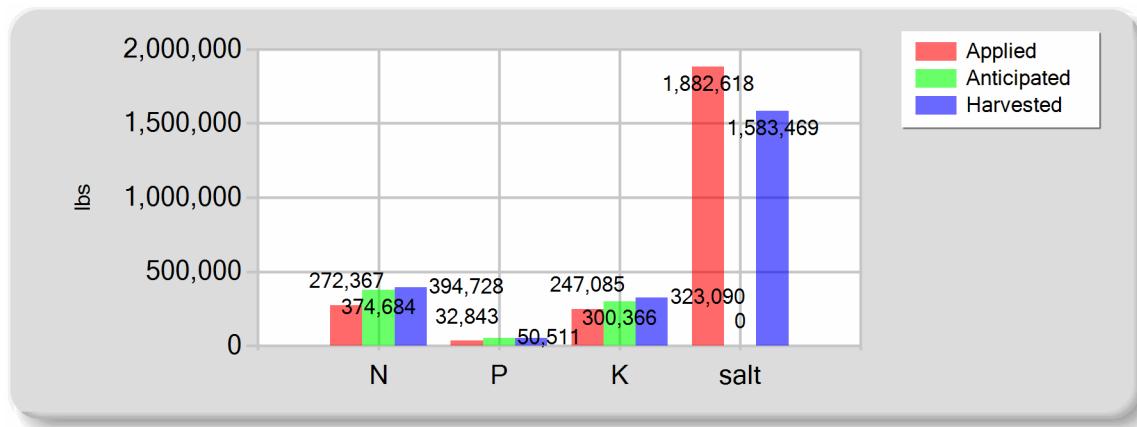
No subsurface (tile) drainage analyses entered.

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

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	70,374.49	13,798.92	51,400.98	0.00
Process wastewater	190,701.50	19,043.61	195,684.01	1,422,086.80
Fresh water	0.00	0.00	0.00	460,531.58
Atmospheric deposition	11,291.00	0.00	0.00	0.00
Total nutrients applied	272,366.99	32,842.53	247,084.98	1,882,618.38
Anticipated crop nutrient removal	374,684.00	50,511.00	300,366.00	0.00
Actual crop nutrient removal	394,727.64	51,862.06	323,089.84	1,583,468.97
Nutrient balance	-122,360.65	-19,019.53	-76,004.86	299,149.41
Applied to removed ratio	0.69	0.63	0.76	1.19

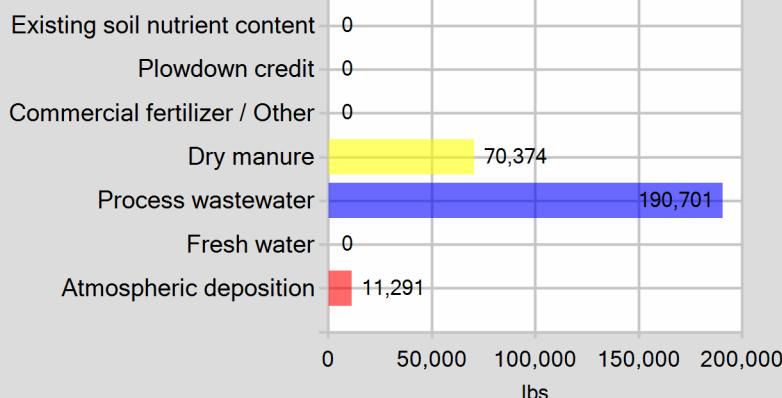
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

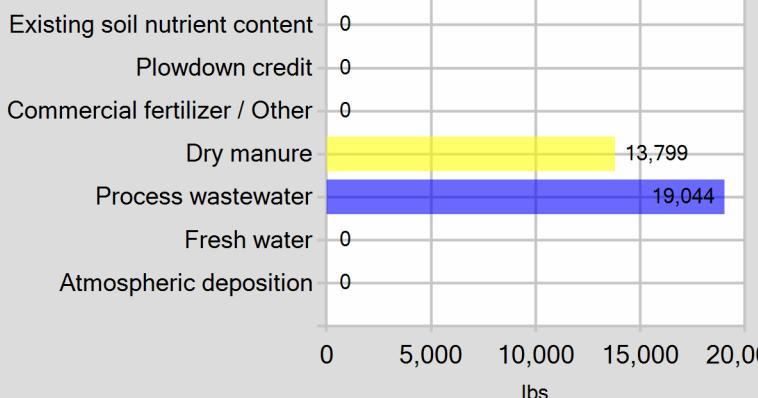
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

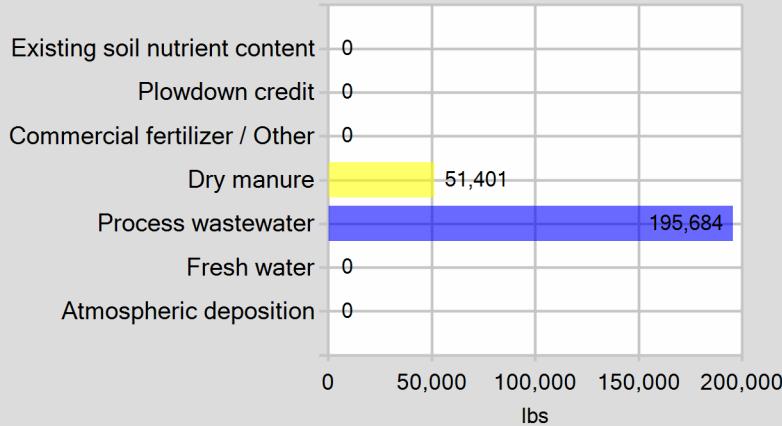
Pounds of nitrogen applied



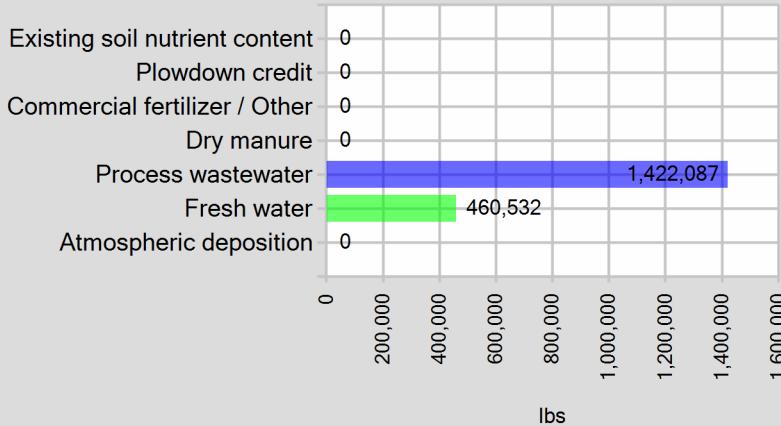
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

Field R12 was lost to flooding. R11 was flooded but had a small harvest after flood water receded.

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

Stephen Brown

Stephen Brown (Jun 30, 2024 14:05 PDT)

SIGNATURE OF OWNER OF FACILITY

Frank S Brown, LLC

PRINT OR TYPE NAME

06/30/2024

DATE

Stephen Brown

Stephen Brown (Jun 30, 2024 14:05 PDT)

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

06/30/2024

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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



Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0774-01	CH (D41)	Drinking Water	Stephen		12/12/2023 13:15
23L0774-02	Coelho (New)	Drinking Water	Stephen		12/12/2023 14:05
23L0774-03	21947 (D22 Dom)	Drinking Water	Stephen		12/12/2023 14:20
23L0774-04	Dairy Old Sub	Drinking Water	Stephen		12/12/2023 13:55
23L0774-05	Furtado	Drinking Water	Stephen		12/12/2023 13:50
23L0774-06	Borba	Drinking Water	Stephen		12/12/2023 14:10
23L0774-07	D40	Drinking Water	Stephen		12/12/2023 12:10
23L0774-08	Borges	Drinking Water	Stephen		12/12/2023 13:45
23L0774-09	Dairy New Sub	Drinking Water	Stephen		12/12/2023 13:20
23L0774-10	Santos	Drinking Water	Stephen		12/12/2023 13:30
23L0774-11	D22	Drinking Water	Stephen		12/12/2023 13:40

Default Cooler Temperature on Receipt °C: 15.7
Containers Intact
COC/Labels Agree
Received On Ice

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.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample Results

Sample: CH (D41)
23L0774-01 (Water)

Sampled: 12/12/2023 13:15
Sampled By: Stephen

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.47	mmhos/cm	0.01	1		12/14/23 16:07	SM 2510 B		BEL0615
Electrical Conductivity umhos	474	umhos/cm	10.0	1		12/14/23 16:07	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/14/23 10:10	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:07	SM 4500-H+	H	BEL0615
pH	8.8	units	1.0	1		12/14/23 16:07	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample: Coelho (New)
23L0774-02 (Water)

Sampled: 12/12/2023 14:05

Sampled By: Stephen

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.46	mmhos/cm	0.01	1		12/14/23 16:08	SM 2510 B		BEL0615
Electrical Conductivity umhos	458	umhos/cm	10.0	1		12/14/23 16:08	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 10:29	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:08	SM 4500-H+	H	BEL0615
pH	8.9	units	1.0	1		12/14/23 16:08	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

**Sample: 21947 (D22 Dom)
23L0774-03 (Water)**

Sampled: 12/12/2023 14:20

Sampled By: Stephen

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.46	mmhos/cm	0.01	1		12/14/23 16:10	SM 2510 B		BEL0615
Electrical Conductivity umhos	463	umhos/cm	10.0	1		12/14/23 16:10	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 10:49	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:10	SM 4500-H+	H	BEL0615
pH	8.8	units	1.0	1		12/14/23 16:10	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

**Sample: Dairy Old Sub
23L0774-04 (Water)**

Sampled: 12/12/2023 13:55

Sampled By: Stephen

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.14	mmhos/cm	0.01	1		12/14/23 16:11	SM 2510 B		BEL0615
Electrical Conductivity umhos	1140	umhos/cm	10.0	1		12/14/23 16:11	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 11:09	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:11	SM 4500-H+	H	BEL0615
pH	8.0	units	1.0	1		12/14/23 16:11	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample: Furtado
23L0774-05 (Water)

Sampled: 12/12/2023 13:50

Sampled By: Stephen

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.51	mmhos/cm	0.01	1		12/14/23 16:12	SM 2510 B		BEL0615
Electrical Conductivity umhos	512	umhos/cm	10.0	1		12/14/23 16:12	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 11:29	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:12	SM 4500-H+	H	BEL0615
pH	8.4	units	1.0	1		12/14/23 16:12	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample: Borba
23L0774-06 (Water)

Sampled: 12/12/2023 14:10

Sampled By: Stephen

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.48	mmhos/cm	0.01	1		12/14/23 16:13	SM 2510 B		BEL0615
Electrical Conductivity umhos	478	umhos/cm	10.0	1		12/14/23 16:13	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 11:48	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:13	SM 4500-H+	H	BEL0615
pH	8.8	units	1.0	1		12/14/23 16:13	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample: D40
23L0774-07 (Water)

Sampled: 12/12/2023 12:10

Sampled By: Stephen

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.51	mmhos/cm	0.01	1		12/14/23 16:15	SM 2510 B		BEL0615
Electrical Conductivity umhos	512	umhos/cm	10.0	1		12/14/23 16:15	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 09:42	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:15	SM 4500-H+	H	BEL0615
pH	8.8	units	1.0	1		12/14/23 16:15	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample Results
(Continued)

Sample: Borges
23L0774-08 (Water)

Sampled: 12/12/2023 13:45

Sampled By: Stephen

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.53	mmhos/cm	0.01	1		12/14/23 16:16	SM 2510 B		BEL0615
Electrical Conductivity umhos	534	umhos/cm	10.0	1		12/14/23 16:16	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 12:08	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:16	SM 4500-H+	H	BEL0615
pH	8.3	units	1.0	1		12/14/23 16:16	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

**Sample: Dairy New Sub
23L0774-09 (Water)**

Sampled: 12/12/2023 13:20

Sampled By: Stephen

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.32	mmhos/cm	0.01	1		12/14/23 16:23	SM 2510 B		BEL0615
Electrical Conductivity umhos	316	umhos/cm	10.0	1		12/14/23 16:23	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 12:28	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:23	SM 4500-H+	H	BEL0615
pH	8.6	units	1.0	1		12/14/23 16:23	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample Results
(Continued)

Sample: Santos
23L0774-10 (Water)

Sampled: 12/12/2023 13:30

Sampled By: Stephen

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.39	mmhos/cm	0.01	1		12/14/23 16:25	SM 2510 B		BEL0615
Electrical Conductivity umhos	386	umhos/cm	10.0	1		12/14/23 16:25	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/14/23 12:48	EPA 300.0		BEL0446
Temperature	25.0	units	0.0	1		12/14/23 16:25	SM 4500-H+	H	BEL0615
pH	8.8	units	1.0	1		12/14/23 16:25	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Sample: D22
23L0774-11 (Water)

Sampled: 12/12/2023 13:40

Sampled By: Stephen

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.40	mmhos/cm	0.01	1		12/14/23 16:26	SM 2510 B		BEL0615
Electrical Conductivity umhos	397	umhos/cm	10.0	1		12/14/23 16:26	SM 2510 B		BEL0615
Ammonia (as N)	*	mg/L	0.00	1		12/13/23 14:32	Field		BEL0478
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	12/18/23 19:18	EPA 300.0		BEL0510
Temperature	25.0	units	0.0	1		12/14/23 16:26	SM 4500-H+	H	BEL0615
pH	8.8	units	1.0	1		12/14/23 16:26	SM 4500-H+	H	BEL0615

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0446									
Blank (BEL0446-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/13/2023				
Blank (BEL0446-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/13/2023				
Blank (BEL0446-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/14/2023				
Blank (BEL0446-BLK4)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/14/2023				
Blank (BEL0446-BLK5)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/14/2023				
LCS (BEL0446-BS1)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	95.9	90-110			
LCS (BEL0446-BS2)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	97.9	90-110			
LCS (BEL0446-BS3)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	99.7	90-110			
LCS (BEL0446-BS4)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	97.9	90-110			
Duplicate (BEL0446-DUP1)									
Nitrate Nitrogen as NO3N	7.7	0.1	mg/L	7.6			1.53	10	
Duplicate (BEL0446-DUP2)									
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L	0.5			1.99	10	
Duplicate (BEL0446-DUP3)									
Nitrate Nitrogen as NO3N	0.02	0.1	mg/L	0.02				10	
Duplicate (BEL0446-DUP4)									
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L	0.03			5.71	10	
Matrix Spike (BEL0446-MS1)									
Nitrate Nitrogen as NO3N	12.7	0.1	mg/L	5.000	7.6	102	90-110		
Matrix Spike (BEL0446-MS2)									
Nitrate Nitrogen as NO3N	5.3	0.1	mg/L	5.000	0.5	95.6	90-110		

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0446 (Continued)									
Matrix Spike (BEL0446-MS3) Nitrate Nitrogen as NO3N	Source: 23L0691-01 4.8	0.1	mg/L	5.000	0.02	96.5	90-110		
Matrix Spike (BEL0446-MS4) Nitrate Nitrogen as NO3N	Source: 23L0774-09 4.8	0.1	mg/L	5.000	0.03	95.8	90-110		
Reference (BEL0446-SRM1) Nitrate Nitrogen as NO3N	9.7		mg/L	10.00		96.9	90-110		
Reference (BEL0446-SRM2) Nitrate Nitrogen as NO3N	9.6		mg/L	10.00		96.5	90-110		
Reference (BEL0446-SRM3) Nitrate Nitrogen as NO3N	9.7		mg/L	10.00		96.5	90-110		
Reference (BEL0446-SRM4) Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.1	90-110		
Reference (BEL0446-SRM5) Nitrate Nitrogen as NO3N	9.6		mg/L	10.00		95.6	90-110		

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0510									
Blank (BEL0510-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/18/2023				
Blank (BEL0510-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/18/2023				
Blank (BEL0510-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/19/2023				
LCS (BEL0510-BS1)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	98.4	90-110			
LCS (BEL0510-BS2)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	98.7	90-110			
Duplicate (BEL0510-DUP1)									
Nitrate Nitrogen as NO3N	0.03	0.1	mg/L	0.03			6.45	10	
Duplicate (BEL0510-DUP2)									
Nitrate Nitrogen as NO3N	7.0	0.1	mg/L	6.9			0.649	10	
Matrix Spike (BEL0510-MS1)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	0.03	102	90-110		
Matrix Spike (BEL0510-MS2)									
Nitrate Nitrogen as NO3N	12.0	0.1	mg/L	5.000	6.9	101	90-110		
Reference (BEL0510-SRM1)									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Reference (BEL0510-SRM2)									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Reference (BEL0510-SRM3)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		

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22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0615									
Blank (BEL0615-BLK1)									
Temperature 25.0 0.0 units Prepared & Analyzed: 12/14/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
Electrical Conductivity umhos ND 10.0 umhos/cm									
pH 4.7 1.0 units									
Blank (BEL0615-BLK2)									
Electrical Conductivity ND 0.01 mmhos/cm Prepared & Analyzed: 12/14/2023									
Temperature 25.0 0.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
pH 7.6 1.0 units									
Blank (BEL0615-BLK3)									
Electrical Conductivity ND 0.01 mmhos/cm Prepared & Analyzed: 12/14/2023									
Temperature 25.0 0.0 units									
pH 7.5 1.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Duplicate (BEL0615-DUP1)									
Source: 23L0774-08 Prepared & Analyzed: 12/14/2023									
Electrical Conductivity 0.53 0.01 mmhos/cm									
pH 8.3 1.0 units									
Electrical Conductivity umhos 528 10.0 umhos/cm									
Duplicate (BEL0615-DUP2)									
Source: 23L0776-01 Prepared & Analyzed: 12/14/2023									
Electrical Conductivity 5.91 0.01 mmhos/cm									
pH 7.0 1.0 units									
Electrical Conductivity umhos 5910 10.0 umhos/cm									
Reference (BEL0615-SRM1)									
Prepared & Analyzed: 12/14/2023									
Electrical Conductivity 435 umhos/cm									
426.0 102 90-110									
Reference (BEL0615-SRM2)									
Prepared & Analyzed: 12/14/2023									
pH 7.5 units									
7.520 100 67021-101.3%									
Reference (BEL0615-SRM3)									
Prepared & Analyzed: 12/14/2023									
Electrical Conductivity 1030 umhos/cm									
1000 103 90-110									
Electrical Conductivity umhos 1030 umhos/cm									
1000 103 90-110									
Reference (BEL0615-SRM4)									
Prepared & Analyzed: 12/14/2023									
Electrical Conductivity 1030 umhos/cm									
1000 103 90-110									
Electrical Conductivity umhos 1030 umhos/cm									
1000 103 90-110									
Reference (BEL0615-SRM5)									
Prepared & Analyzed: 12/14/2023									
Electrical Conductivity 1050 umhos/cm									
1000 105 90-110									

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Frank S Brown LLC
22045 S Valentine
Riverdale, CA 93656-9314

Account# 00-0012870
Account Manager: Ben Nydam
Submitted By: Stephen Brown
Ranch: Frank S. Brown Co.

Received: 12/13/2023 7:00
Reported: 12/20/2023 14:01

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0615 (Continued)									
Reference (BEL0615-SRM5)									
Electrical Conductivity umhos	1050		umhos/cm	1000	105	90-110			
Reference (BEL0615-SRM6)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEL0615-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEL0615-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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12/13/23 07:00

23L0774

TER

JG

WATER WORK REQUEST

Acct No.	12870	Cons.	50
----------	-------	-------	----

Purchase Order No. _____ Results Needed By _____

Client Frank S. Brown, LLC
 Address 22045 S. Valentine
 City, State, Zip Riverdale, CA 93656
 Phone Fax 867-0923
 Cell/Email work4milk@sbglobal.net WORK4MILK@GMAIL.COM
 Copy to krcordeiro@yahoo.com
 Requested by Stephen Brown 867-0614
 Ranch Frank S. Brown Co.
 Date sampled 12/12/23
 Sampled by Stephen

[X] QA/QC Document [X] Copy of Chain [] RWQCB

DESCRIPTION OF SAMPLES

1. CH (D41) Sampled From:
2. CO2+HO (NEW) Sampled From:
3. 21947 (D22 DOM) Sampled From:
4. DAIRY OLD SUB Sampled From:
5. FURTADO Sampled From:
6. BORGES Sampled From:
7. D40 Sampled From:
8. BORGES D44 Sampled From:
9. DAIRY NEW SUB Sampled From:
10. SANTOS Sampled From:

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110, Fresno, CA 93728

www.dellavallelab.com 559 233-6129 800 228-9156 Fax 559 268-8174

No. of Samples	<u>1</u>	No. Bottles	<u>1</u>
Water Type:	[] Drinking	[] Wastewater	
[] Ag Water	[] Ground Water	[] Mon. Well	
[] Supply Water	[] Other		

Analysis and Bottles Required: (Please Indicate Analysis)

- DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (1) 1 L plastic, unpreserved (white)
- DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (1) 1 L plastic, unpreserved (white)
- DCW1: (EC, NO₃-N, TDS)
 (1) 1 L plastic, unpreserved (white)
- DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (1) 1 L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (1) 1 L plastic, unpreserved (white)

() Other

Date Sampled	Time Sampled	Field	Received Temp °C
12/12	1:15		15.7 / -1.6
	2:05		14.3 / -1.1
	2:20		16.7 / -1.5
	1:55		14.6 / -1.1
	1:50		14.9 / -1.1
	2:10		17.9 / -1.6
	12:10		16.8 / -.1
	1:45		14.5 / -1.8
	1:20		15.3 / -2.1
	1:30		16.8 / -1.5

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>YPR</u>	<u>FSB, LLC</u>		<u>12/12/23 2:58 pm</u>
Second	<u>YPR</u>	<u>DLI</u>		
Third				
Fourth	<u>MM</u>	<u>100</u>	<u>12/13 04:00</u>	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee greater than 1% per month.

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 A.I. 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 arbitration costs, and in the event of arbitration, reasonable attorneys' fees of DellaValle Laboratory.

Invoicing Information:

Shipping		
Sampling Hrs	Miles	Consulting
\$	\$	\$
In	Out	
Amt Paid	Rec By	Check No.
		Date

Signature _____
 IR Thermometer SN: 221511276
 Correction Factor: 0°C
 Calibration Due: 03/06/2024
 Location: Laboratory

Sample received in co
 [] Yes [] No

MAGNAVO 1411



1 of 2

12/13/23 07:00

23L0774

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

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

Container: Ice Chest Box None

Refrigerant: Wet Ice Blue Ice None

Samples Preserved with HNO₃ or H₂SO₄ 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 ₂ S ₂ O ₃ (Green)												
	250 mL unpreserved (White) Plastic												
	250 mL HNO ₃ (Red) Plastic												
	* pH Value												
	250 mL H ₂ SO ₄ (Yellow) Plastic												
	* pH Value												
	500 mL unpreserved (White) Plastic												
Special	1 L unpreserved (White) Plastic												
	1 L unpreserved (BOD) (Purple) Plastic												

Sample Containers for Subcontracted ("Send Out") Analyses

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

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

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

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

Special	1 L AG H ₂ SO ₄ (Yellow)												
	1 L AG Na ₂ S ₂ O ₃ (Green)												
	1 L AG HCl (Blue)												
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃												
	Cyanide - 500 mL NaOH												
	Asbestos - 1L P wrapped in foil (Set of 2)												
	Sulfide - 1 L AG or P NaOH + ZnAc												

Chlorite/Bromate - 250 mL AG with EDA
HAA5 - 250mL AG Ammonium Chlorite
DO KIT
Other:
Other:



202

12/13/23 07:00

23L0774

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input checked="" type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in ice chest					
Container: Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO ₃ or H ₂ SO ₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> 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 ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
1 L unpreserved (White) Plastic										
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
Special	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
	1 L AG HCl (Blue)									
	Cr ³⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
Asbestos - 1L P wrapped in foil (Set of 2)										
Sulfide - 1 L AG or P NaOH + ZnAc										
Chlorite/Bromate - 250 mL AG with EDA										
HAA5 - 250mL AG Ammonium Chlorite										
DO KIT										
Other:										
Other:										

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

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

Operator Information:

Name of Operator: FRANK S. BROWN, LLC

Name of Dairy Facility: FRANK S. BROWN CO

Facility Address: 22045 S. VALENTINE, RIVERDALE 93656
Number and Street City Zip Code

Contact Person Name and Phone Number: STEPHEN BROWN 559-867-0614

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: THOMAS BROS SPREADING

Address of Hauling Company /Person: 5810 23rd, RIVERDALE 93656
Number and Street City Zip Code

Contact Person: MANUEL THOMAS 559-906-1406
Name Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

THOMAS BREOS 5810 23rd, RIVERDALE 93656 906-1406

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number
Dates Hauled: <u>1/27/23</u>			

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 600 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 17.7%

Manure Density (if amount reported in cubic yards): _____

Attachment D

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E-3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: STB

Date: 2/1/23

Hauler's Signature: MEP

Date: 2/1/23

ATTACHMENT D

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

Instructions:

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

Operator Information:

Name of Operator: FRANK S. BROWN, LLC

Name of Dairy Facility: FRANK S. BROWN CO

Facility Address: 22045 S. Valentine, Riverdale 93656
Number and Street City Zip Code

Contact Person Name and Phone Number: STEPHEN Brown 559-867-0614
Name _____ Phone Number _____

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: THOMAS BROS SPREADING

Contact Person: MARIE THOMAS SSN - 906 - 1406
Name Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

THOMAS Bros 5810 23rd RIVERDALE 93656 906-1406

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street **City** **Zip Code** **Assessor's Parcel Number**

Dates Hauled: 2/12/23

Amount Hauled:

Amount Hauled:
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 410 Tons or Cubic Yards (indicate which units used)

Manure: 770 Tons or Cubic Yards (indicate which units used)
Manure Solids Content (if amount reported in tons): 17.7%

Manure Solids Content (if amount reported in tons): 17.7%
Manure Density (if amount reported in cubic yards):

Attachment D

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E-3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Steph G

Date: 2/10/23

Hauler's Signature: de Pa

Date: 2/10/23

ATTACHMENT D

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

Instructions:

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

Operator Information:

Name of Operator: FRANK S. BROWN, LLC

Name of Dairy Facility: FRANK S. BROWN CO.

Facility Address: 22045 S. VALENTINE, RIVERDALE 93656
Number and Street City Zip Code

Contact Person Name and Phone Number: STEPHEN BROWN 559-867-0614
Name _____ Phone Number _____

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: THOMAS BROS SPREADING

Contact Person: MANUEL THOMAS - SSN: 906-1406
Name Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

THOMAS BROS, 581023rd, RIVERDALE 93656 906-1406

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number
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Dates Hauled: 3/8/23

Amount Hauled:

Amount Hauled: Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 590 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 17.7%

Manure Solids Content (if amount reported in tons): 17.7%
Manure Density (if amount reported in cubic yards):

Attachment D

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Steph B

Date: 3/9/23

Hauler's Signature: Neil Res

Date: 3/9/23

ATTACHMENT D**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies****Instructions:**

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

Operator Information:Name of Operator: FRANK S. BROWN, LLCName of Dairy Facility: FRANK S. BROWN COFacility Address: 22045 S. VALENTINE, RIVERDALE 93656
Number and Street City Zip CodeContact Person Name and Phone Number: STEPHEN BROWN 559-867-0614
Name Phone Number**Manure/Process Wastewater Hauler Information:**Name of Hauling Company/Person: THOMAS BROS SPREADINGAddress of Hauling Company /Person: 5810 23rd, RIVERDALE 93656
Number and Street City Zip CodeContact Person: MANUEL THOMAS 559-906-1406
Name Phone Number**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

THOMAS BROS, 5810 23rd, RIVERDALE 93656 906-1406
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number
<u>3/24/23</u>			

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 550 Tons or Cubic Yards (indicate which units used)Manure Solids Content (if amount reported in tons): 17.7%

Manure Density (if amount reported in cubic yards): _____

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Styl LG

Date: 3/26/23

Hauler's Signature: Mel Tho

Date: 3/26/23

ATTACHMENT D**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies****Instructions:**

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

Operator Information:Name of Operator: FRANK S. BROWN, LLCName of Dairy Facility: FRANK S. BROWN COFacility Address: 22045 S. VALENTINE, RIVERDALE 93656
Number and Street City Zip CodeContact Person Name and Phone Number: STEPHEN BROWN 559-867-0614
Name Phone Number**Manure/Process Wastewater Hauler Information:**Name of Hauling Company/Person: THOMAS BROS SPREADINGAddress of Hauling Company /Person: 5810 23rd, RIVERDALE 93656
Number and Street City Zip CodeContact Person: MANUEL THOMAS 559 - 906 - 1406
Name Phone Number**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

THOMAS BROS, 5810 23rd, RIVERDALE 93656 906 - 1406
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number

Dates Hauled: 4/24 - 4/28/23**Amount Hauled:**

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 1000 Tons or Cubic Yards (indicate which units used)Manure Solids Content (if amount reported in tons): 17.7%

Manure Density (if amount reported in cubic yards): _____

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: SLB

Date: 5/1/23

Hauler's Signature: MJD

Date: 5/1/23

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

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

Operator Information:

Name of Operator: FRANK S. BROWN, LLC

Name of Dairy Facility: FRANK S. BROWN CO

Facility Address: 22045 S. Valentine, Riverdale 93656
Number and Street City Zip Code

Contact Person Name and Phone Number: STEPHEN BROWN 559-867-0614
Name _____ Phone Number _____

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: THOMAS BROS SPREADING

Contact Person: MANUEL THOMAS SSN: 559-906-1406
Name: _____ Phone Number: _____

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

MIKE SMITH, 1755 W. Mt Whitney, Riverdale 93656

Manure/Process Wastewater Destination Address or Assessor's Parcel Number: 2745

Number and Street	City	Zip Code	Assessor's Parcel Number
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Dates Hauled: 5/9/23

Amount Hauled:

Amount Hauled:
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 670 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 17.7%

Manure Density (if amount reported in cubic yards): _____

Attachment D

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: SKB

Date: 5/20/23

Hauler's Signature: MILLER

Date: 5/20/23

ATTACHMENT D**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies****Instructions:**

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

Operator Information:Name of Operator: FRANK S. BROWN, LLCName of Dairy Facility: FRANK S. BROWN COFacility Address: 22045 S. VALENTINE, RIVERDALE 93656
Number and Street City Zip CodeContact Person Name and Phone Number: STEPHEN BROWN 559-867-0614
Name Phone Number**Manure/Process Wastewater Hauler Information:**Name of Hauling Company/Person: THOMAS BROS SPREADINGAddress of Hauling Company /Person: 5810 23rd, RIVERDALE 93656
Number and Street City Zip CodeContact Person: MANUEL THOMAS 559-906-1406
Name Phone Number**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Thomas Bros, 5810 23rd, RIVERDALE 93656 906-1406
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number
<u>5/22/23</u>			

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 580 Tons or Cubic Yards (indicate which units used)Manure Solids Content (if amount reported in tons): 17.7%

Manure Density (if amount reported in cubic yards): _____

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E-3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: STB

Date: 5/22/23

Hauler's Signature: MTR

Date: 5/22/23

ATTACHMENT D**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies****Instructions:**

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

Operator Information:Name of Operator: FRANK S. BROWN, LLCName of Dairy Facility: FRANK S. BROWN COFacility Address: 22045 S. VALENTINE, RIVERDALE 93656
Number and Street City Zip CodeContact Person Name and Phone Number: STEPHEN BROWN 559-867-0614
Name Phone Number**Manure/Process Wastewater Hauler Information:**Name of Hauling Company/Person: THOMAS BROS SPREADERSAddress of Hauling Company /Person: 5810 23rd, RIVERDALE 93656
Number and Street City Zip CodeContact Person: MANUEL THOMAS, 559-906-1406
Name Phone Number**Destination Information:**

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

THOMAS BROS, 5810 23rd, RIVERDALE 93656 906-1406
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number
<u>12/20/23</u>			

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 480 Tons or Cubic Yards (indicate which units used)Manure Solids Content (if amount reported in tons): 17.7%

Manure Density (if amount reported in cubic yards): _____

Attachment D

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

Method used to determine amount of manure: Weighted Average

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Steph KB

Date: 12/21/23

Hauler's Signature: WCB

Date: 12/21/23