

**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:** Curti Family Inc.

Physical address of dairy:

3235 Avenue 199

Number and Street

Tulare

Tulare

93274

City

County

Zip Code

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

Date facility was originally placed in operation: 06/15/1913Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0225-0030-0004-0000

**B. OPERATORS**

Curti, Justin

Operator name: Curti, JustinTelephone no.: (559) 688-8323

Landline

Cellular

3235 Avenue 199

Tulare

CA

93274

Mailing Address Number and Street

City

State

Zip Code

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

Curti, Phillip

Operator name: Curti, PhillipTelephone no.: (559) 688-8323

Landline

Cellular

3235 Avenue 199

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**C. OWNERS**

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Curti, Justin

Legal owner name: <u>Curti, Justin</u>	Telephone no.: <u>(559) 688-8323</u>
	Landline      Cellular
3235 Avenue 199	Tulare
Mailing Address Number and Street	CA      93274
	City      State      Zip Code

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

Curti, Phillip

Legal owner name: <u>Curti, Phillip</u>	Telephone no.: <u>(559) 688-8323</u>
	Landline      Cellular
3235 Avenue 199	Tulare
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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	1,300	300	1,100	500	600	500
Number under roof	1,300	0	0	0	0	0
Maximum number	2,600	300	1,100	500	600	500
Average number	2,600	300	1,100	500	600	500
Avg live weight (lbs)	1,000	1,100	800	600		

Predominant milk cow breed: Jersey

Average milk production: 60 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 86,745.71 tons per reporting period

Total nitrogen from manure: 1,094,892.30 lbs per reporting period

After ammonia losses (30% loss applied): 766,424.61 lbs per reporting period

Total phosphorus from manure: 177,184.45 lbs per reporting period

Total potassium from manure: 480,841.99 lbs per reporting period

Total salt from manure: 1,293,195.00 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 49,793,291 gallons

Total nitrogen generated: 144,851.12 lbs

$$\begin{aligned}
 & 49,793,291 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 49,793,291 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 21,777.91 lbs

Total potassium generated: 182,788.45 lbs

Total salt generated: 1,350,908.24 lbs

**D. FRESH WATER SOURCES**

Source Description	Type
1	Ground water
14	Ground water
16A	Ground water
16C	Ground water
18A	Ground water

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Source Description	Type
29	Ground water
30	Ground water
4A	Ground water
4B	Ground water
5A	Ground water
5B	Ground water
60	Ground water
61B	Ground water
7	Ground water
8	Ground water
Canal	Surface water

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

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

*No solid nutrient exports entered.*

*No liquid nutrient exports entered.*

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	18	18	2	both	X225-X040-X001-XXXX
10	22	22	2	both	X225-X020-X033-XXXX X225-X020-X038-XXXX
11	51	51	2	both	X225-X020-X008-XXXX
12	73	73	1	both	X225-X020-X007-XXXX
13	86	86	0	none	X225-X020-X032-XXXX
14	84	84	2	both	X225-X010-X032-XXXX
16	77	77	0	none	X225-X020-X004-XXXX
17	80	80	1	both	X225-X020-X004-XXXX
18	40	40	2	both	X225-X020-X032-XXXX
19	39	39	2	both	X225-X020-X032-XXXX
2	31	31	1	both	X225-X040-X010-XXXX
20	38	38	0	none	X225-X020-X032-XXXX
26	29	29	0	none	X226-X010-X044-XXXX
27	45	45	0	none	X226-X010-X044-XXXX
28	33	33	0	none	X226-X010-X042-XXXX
29	36	36	0	none	X226-X010-X042-XXXX
3	57	57	0	none	X225-X010-X015-XXXX X225-X040-X004-XXXX X225-X040-X011-XXXX
30	75	75	1	both	X226-X010-X043-XXXX
4	75	75	2	both	X225-X040-X005-XXXX X225-X040-X006-XXXX
40	41	41	2	both	X225-X010-X019-XXXX X225-X090-X006-XXXX
41	42	42	0	none	X225-X090-X006-XXXX
5	54	54	1	both	X225-X010-X015-XXXX X225-X010-X032-XXXX X225-X010-X033-XXXX X225-X030-X002-XXXX
6	60	60	2	both	X225-X030-X004-XXXX X225-X030-X011-XXXX
60	58	58	2	both	X226-X050-X005-XXXX
61	95	95	0	none	X226-X050-X004-XXXX

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
62	95	95	1	both	X226-X050-X004-XXXX X226-X050-X005-XXXX
7	47	47	0	none	X225-X030-X007-XXXX X225-X030-X008-XXXX X225-X030-X010-XXXX
8	22	22	0	none	X225-X030-X004-XXXX
9	66	66	1	both	X225-X030-X005-XXXX
Totals for areas that were used for application	962	962	27		
Totals for areas that were not used for application	607	607	0		
Land application area totals	1,569	1,569	27		

**B. CROPS AND HARVESTS**

1

Field name: 1

11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 18      Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	360.00 ton	As-is		68.5	5,800.00	900.00	6,000.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	232.00	36.00	240.00	995.40

06/15/2023: Corn, silage

Crop: Corn, silage      Acres planted: 18      Plant date: 06/15/2023

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	540.00 ton	As-is		65.2	4,500.00	800.00	5,200.00		5.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	270.00	48.00	312.00	1,148.40

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Field name: 10

11/10/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 22      Plant date: 11/10/2022

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	506.00 ton	As-is		69.7	4,400.00	800.00	4,800.00		4.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	23.00	202.40	36.80	220.80	571.46

06/19/2023: Corn, silage

Crop: Corn, silage      Acres planted: 22      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 (%)
10/10/2023	660.00 ton	As-is		70.4	4,100.00	900.00	4,000.00		2.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	246.00	54.00	240.00	479.52

11

Field name: 11

11/10/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 51      Plant date: 11/10/2022

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	1,122.00 ton	As-is		73.8	4,200.00	800.00	5,500.00		11.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	22.00	184.80	35.20	242.00	1,291.14

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06/24/2023: Corn, silage

Crop: Corn, silage      Acres planted: 51      Plant date: 06/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,530.00 <i>ton</i>	As-is		68.2	3,900.00	600.00	4,600.00		6.50
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00    240.00    45.00    198.00				0.00			
Total actual harvest content		30.00    234.00    36.00    276.00				1,240.20			

12

Field name: 12

04/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 73      Plant date: 04/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/11/2023	2,336.00 <i>ton</i>	As-is		65.5	4,300.00	1,000.00	4,900.00		6.70
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		35.00    280.00    52.50    231.00				0.00			
Total actual harvest content		32.00    275.20    64.00    313.60				1,479.36			

13

Field name: 13

11/01/2018: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 86      Plant date: 11/01/2018

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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**14**Field name: 14

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 84 Plant date: 11/21/2022

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	1,680.00 <i>ton</i>	As-is		68.1	4,200.00	700.00	5,300.00		9.50
<hr/>									
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)				
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00				
Total actual harvest content	20.00	168.00	28.00	212.00	1,212.20				

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 84 Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	2,604.00 <i>ton</i>	As-is		69.1	4,000.00	700.00	3,200.00		4.80
<hr/>									
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)				
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00				
Total actual harvest content	31.00	248.00	43.40	198.40	919.58				

**16**Field name: 16

11/29/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 77 Plant date: 11/29/2022

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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**17**

Field name: 17

04/17/2023: Corn, silage

Crop: Corn, silage      Acres planted: 80      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 (%)
08/11/2023	2,720.00 ton	As-is		64.2	3,800.00	1,100.00	4,000.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	34.00	258.40	74.80	272.00	1,484.98

**18**

Field name: 18

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 40      Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	840.00 ton	As-is		68.7	4,000.00	800.00	4,900.00		11.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	21.00	168.00	33.60	205.80	1,498.64

06/21/2023: Corn, silage

Crop: Corn, silage      Acres planted: 40      Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,200.00 ton	As-is		68.0	4,400.00	800.00	3,900.00		5.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	264.00	48.00	234.00	1,056.00

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19

Field name: 19

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 39      Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	819.00 ton	As-is		69.3	5,300.00	1,100.00	5,400.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	21.00	222.60	46.20	226.80	1,508.60

06/08/2023: Corn, silage

Crop: Corn, silage      Acres planted: 39      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 (%)
09/14/2023	1,170.00 ton	As-is		60.5	4,500.00	800.00	3,700.00		4.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	270.00	48.00	222.00	1,042.80

2

Field name: 2

04/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 31      Plant date: 04/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/03/2023	1,085.00 ton	As-is		67.5	3,500.00	700.00	3,400.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	35.00	245.00	49.00	238.00	1,638.00

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20

Field name: 20

11/20/2020: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 38      Plant date: 11/20/2020

*No harvests entered for this crop.*

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

26

Field name: 26

11/28/2022: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 29      Plant date: 11/28/2022

*No harvests entered for this crop.*

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

27

Field name: 27

11/28/2022: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 45      Plant date: 11/28/2022

*No harvests entered for this crop.*

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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**28**

Field name: 28

01/15/2018: Pistachios

Crop: Pistachios

Acres planted: 33 Plant date: 01/15/2018

*No harvests entered for this crop.*

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.00	150.00	40.00	200.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

**29**

Field name: 29

01/15/2018: Pistachios

Crop: Pistachios

Acres planted: 36 Plant date: 01/15/2018

*No harvests entered for this crop.*

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.00	150.00	40.00	200.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

**3**

Field name: 3

04/10/2018: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 57 Plant date: 04/10/2018

*No harvests entered for this crop.*

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

**30**

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30

Field name: 30

04/17/2023: Corn, silage

Crop: Corn, silage      Acres planted: 75      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 (%)
08/03/2023	2,625.00 ton	As-is		66.8	3,600.00	800.00	3,800.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	35.00	252.00	56.00	266.00	1,417.64

4

Field name: 4

11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 75      Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,800.00 ton	As-is		69.1	4,000.00	800.00	4,900.00		14.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	24.00	192.00	38.40	235.20	2,150.64

06/15/2023: Corn, silage

Crop: Corn, silage      Acres planted: 75      Plant date: 06/15/2023

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	2,400.00 ton	As-is		71.8	3,400.00	700.00	4,000.00		5.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.00	217.60	44.80	256.00	956.54

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40

Field name: 40

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 41      Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	779.00 ton	As-is		70.6	5,400.00	1,100.00	6,500.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	19.00	205.20	41.80	247.00	1,184.23

06/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 41      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 (%)
10/03/2023	1,148.00 ton	As-is		66.8	4,800.00	800.00	4,400.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.00	268.80	44.80	246.40	1,096.93

41

Field name: 41

10/16/2019: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 42      Plant date: 10/16/2019

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

5

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**5**

Field name: 5

06/13/2023: Corn, silage

Crop: Corn, silage      Acres planted: 54      Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	1,836.00 ton	As-is		69.7	4,000.00	800.00	5,000.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	34.00	272.00	54.40	340.00	1,256.84

**6**

Field name: 6

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 60      Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	1,380.00 ton	As-is		71.2	4,200.00	900.00	6,400.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	23.00	193.20	41.40	294.40	1,324.80

06/16/2023: Corn, silage

Crop: Corn, silage      Acres planted: 60      Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	1,920.00 ton	As-is		67.9	3,300.00	1,000.00	4,600.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.00	211.20	64.00	294.40	1,355.90

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60

Field name: 60

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 58      Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	1,160.00 ton	As-is		71.9	5,000.00	900.00	4,600.00		11.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	200.00	36.00	184.00	1,326.32

06/29/2023: Corn, silage

Crop: Corn, silage      Acres planted: 58      Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	1,740.00 ton	As-is		70.4	4,100.00	600.00	5,500.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	246.00	36.00	330.00	1,225.44

61

Field name: 61

10/30/2019: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 95      Plant date: 10/30/2019

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

62

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62

Field name: 62

04/22/2023: Corn, silage

Crop: Corn, silage

Acres planted: 95 Plant date: 04/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/11/2023	2,945.00 ton	As-is		62.8	4,500.00	800.00	5,000.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	31.00	279.00	49.60	310.00	1,429.97

7

Field name: 7

10/17/2019: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 47 Plant date: 10/17/2019

*No harvests entered for this crop.*

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

9

Field name: 9

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9

04/19/2023: Corn, silage

Crop: Corn, silage      Acres planted: \_\_\_\_\_ 66      Plant date: 04/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/11/2023	2,244.00 ton	As-is		65.0	3,900.00	1,100.00	4,700.00		7.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	34.00	265.20	74.80	319.60	1,856.40

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

1 - 11/03/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough Plant date: 11/03/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	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
Manure	Corral solids	122.40	45.60	151.80	1,539.72	54.00 ton
Application event totals		122.40	45.60	151.80	1,539.72	
11/04/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	42.69	6.61	32.80	231.32	215,061.66 gal
1	Ground water	20.81	0.00	0.00	521.32	4,444,607.64 gal
Application event totals		63.51	6.61	32.80	752.64	
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	96.01	4.28	44.27	753.77	286,748.88 gal
Canal	Surface water	0.55	0.00	0.00	145.32	5,914,195.65 gal
Application event totals		96.56	4.28	44.27	899.09	

1 - 06/15/2023: Corn, silage

Field name: 1

Crop: Corn, silage Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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1 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/10/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	138.00	47.00	193.00	0.00	90.00 ton
Application event totals		138.00	47.00	193.00	0.00	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	42.49	9.64	62.69	393.80	433,381.83 gal
Canal	Surface water	1.31	0.00	0.00	345.89	14,076,763.20 gal
Application event totals		43.80	9.64	62.69	739.69	
07/13/2023	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
Process Wastewater	Process wastewater	104.36	20.03	140.56	694.43	720,130.71 gal
Application event totals		104.36	20.03	140.56	694.43	
08/10/2023	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)	Amount
1	Ground water	29.27	0.00	0.00	774.71	5,304,854.28 gal
Application event totals		29.27	0.00	0.00	774.71	

10 - 11/10/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/28/2022	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
Manure	Corral solids	105.60	37.80	111.00	3,447.26	66.00 ton
Application event totals		105.60	37.80	111.00	3,447.26	

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10 - 11/10/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/11/2022	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
Process Wastewater	Process wastewater	36.16	9.15	128.97	731.72	241,129.74 gal
8	Ground water	70.56	0.00	0.00	1,325.38	5,519,915.94 gal
Application event totals		106.72	9.15	128.97	2,057.10	
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	39.28	1.75	18.11	308.36	143,374.44 gal
Canal	Surface water	0.53	0.00	0.00	139.47	6,937,367.79 gal
Application event totals		39.80	1.75	18.11	447.83	

10 - 06/19/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/18/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	121.20	33.00	236.40	0.00	66.00 ton
Application event totals		121.20	33.00	236.40	0.00	
06/01/2023	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
Process Wastewater	Process wastewater	69.28	15.72	102.19	641.98	863,505.15 gal
Canal	Surface water	1.99	0.00	0.00	526.95	26,211,454.44 gal
Application event totals		71.26	15.72	102.19	1,168.94	

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10 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	102.78	19.73	138.42	683.86
Application event totals		102.78	19.73	138.42	683.86

11 - 11/10/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/20/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	105.60	37.80	111.00	3,447.26
Application event totals		105.60	37.80	111.00	3,447.26
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	15.60	3.95	55.63	315.64
8	Ground water	26.47	0.00	0.00	497.14
16C	Ground water	16.20	0.00	0.00	343.67
Application event totals		58.27	3.95	55.63	1,156.45
03/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	68.16	3.04	31.43	535.10
Canal	Surface water	0.57	0.00	0.00	152.14
Application event totals		68.73	3.04	31.43	687.24

11 - 06/24/2023: Corn, silage

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**11 - 06/24/2023: Corn, silage**

Field name: 11

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/18/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	121.20	33.00	236.40	0.00	153.00 ton
Application event totals		121.20	33.00	236.40	0.00	
06/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	69.80	15.84	102.97	646.88	2,017,017.69 gal
Canal	Surface water	2.03	0.00	0.00	537.79	62,012,703.81 gal
Application event totals		71.83	15.84	102.97	587.78	1,184.67
07/21/2023	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
Process Wastewater	Process wastewater	88.34	16.96	118.97	587.78	1,727,010.30 gal
Application event totals		88.34	16.96	118.97	587.78	

**12 - 04/20/2023: Corn, silage**

Field name: 12

Crop: Corn, silage

Plant date: 04/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2022	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
Manure	Corral solids	211.20	75.60	222.00	6,894.53	438.00 ton
Application event totals		211.20	75.60	222.00	6,894.53	

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12 - 04/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/29/2023	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
Process Wastewater	Process wastewater	33.33	2.66	56.83	562.40	576,756.27 gal
Canal	Surface water	2.08	0.00	0.00	552.49	91,189,402.35 gal
Application event totals		35.41	2.66	56.83	1,114.89	
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
Process Wastewater	Process wastewater	14.83	2.57	15.90	100.07	433,381.83 gal
Application event totals		14.83	2.57	15.90	100.07	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	31.36	7.12	46.26	290.58	1,296,886.98 gal
Application event totals		31.36	7.12	46.26	290.58	

13 - 11/01/2018: Alfalfa, hay

Field name: 13

Crop: Alfalfa, hay

Plant date: 11/01/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/18/2023	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
Canal	Surface water	1.62	0.00	0.00	428.07	83,235,379.44 gal
Application event totals		1.62	0.00	0.00	428.07	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.55	0.00	0.00	144.79	28,153,526.40 gal
Application event totals		0.55	0.00	0.00	144.79	

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14 - 11/21/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/12/2022	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
Manure	Corral solids	105.60	37.80	111.00	3,447.26	252.00 ton
Application event totals		105.60	37.80	111.00	3,447.26	
11/22/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	20.73	5.24	73.94	419.54	527,878.62 gal
14	Ground water	4.12	0.00	0.00	445.02	19,733,536.56 gal
Application event totals		24.85	5.24	73.94	864.56	
03/07/2023	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
Process Wastewater	Process wastewater	72.24	3.22	33.31	567.16	1,006,879.59 gal
Canal	Surface water	0.57	0.00	0.00	150.38	28,560,840.15 gal
Application event totals		72.81	3.22	33.31	717.54	

14 - 06/29/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/17/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	202.00	55.00	394.00	0.00	420.00 ton
Application event totals		202.00	55.00	394.00	0.00	

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14 - 06/29/2023: 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
Process Wastewater	Process wastewater	45.39	10.30	66.96	420.66	2,160,392.13 gal
Canal	Surface water	1.83	0.00	0.00	485.53	92,212,574.49 gal
Application event totals		47.23	10.30	66.96	906.19	
07/27/2023	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
Process Wastewater	Process wastewater	53.63	10.29	72.23	356.87	1,727,010.30 gal
Application event totals		53.63	10.29	72.23	356.87	

16 - 11/29/2022: Alfalfa, hay

Field name: 16

Crop: Alfalfa, hay

Plant date: 11/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/18/2023	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
Canal	Surface water	2.15	0.00	0.00	570.64	99,345,452.88 gal
Application event totals		2.15	0.00	0.00	570.64	

17 - 04/17/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 04/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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17 - 04/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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
Manure	Corral solids	211.20	75.60	222.00	6,894.53	480.00 ton
Application event totals		211.20	75.60	222.00	6,894.53	
03/25/2023	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
Process Wastewater	Process wastewater	61.12	2.73	28.18	479.89	811,368.99 gal
Canal	Surface water	2.07	0.00	0.00	548.10	99,140,166.75 gal
Application event totals		63.19	2.73	28.18	1,027.99	
05/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	28.61	6.49	42.21	265.15	1,296,886.98 gal
Application event totals		28.61	6.49	42.21	265.15	

18 - 11/15/2022: Wheat, silage, soft dough

Field name: 18

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/28/2022	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
Manure	Corral solids	105.60	37.80	111.00	3,447.26	120.00 ton
Application event totals		105.60	37.80	111.00	3,447.26	

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18 - 11/15/2022: Wheat, silage, soft dough

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
Process Wastewater	Process wastewater	27.68	7.00	98.73	560.16	335,626.53 gal
18A	Ground water	2.02	0.00	0.00	384.52	9,700,584.27 gal
Application event totals		29.70	7.00	98.73	944.68	
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	81.50	3.63	37.58	639.85	540,912.66 gal
Canal	Surface water	0.55	0.00	0.00	145.49	13,157,863.38 gal
Application event totals		82.05	3.63	37.58	785.34	

18 - 06/21/2023: Corn, silage

Field name: 18

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/18/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	161.60	44.00	315.20	0.00	160.00 ton
Application event totals		161.60	44.00	315.20	0.00	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	55.64	12.63	82.08	515.65	1,261,043.37 gal
Canal	Surface water	2.03	0.00	0.00	537.96	48,652,812.81 gal
Application event totals		57.67	12.63	82.08	1,053.61	

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18 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
Process Wastewater	Process wastewater	70.55	13.54	95.02	469.45
Application event totals		70.55	13.54	95.02	469.45
					1,081,825.32 gal

19 - 11/15/2022: Wheat, silage, soft dough

Field name: 19

Crop: Wheat, silage, soft dough Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/02/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	176.00	63.00	185.00	5,745.44
Application event totals		176.00	63.00	185.00	5,745.44
11/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	73.04	18.48	260.52	1,478.14
18A	Ground water	1.94	0.00	0.00	368.81
Application event totals		74.98	18.48	260.52	1,846.95
02/27/2023	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)
Process Wastewater	Process wastewater	31.02	2.47	52.89	523.37
Canal	Surface water	0.55	0.00	0.00	145.74
Application event totals		31.57	2.47	52.89	669.12
					12,851,563.44 gal

19 - 06/08/2023: Corn, silage

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19 - 06/08/2023: Corn, silage

Field name: 19

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/06/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	202.00	55.00	394.00	0.00	195.00 ton
Application event totals		202.00	55.00	394.00	0.00	
05/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	40.70	9.24	60.04	377.18	899,348.76 gal
Canal	Surface water	2.01	0.00	0.00	532.06	46,916,026.98 gal
Application event totals		42.71	9.24	60.04	909.24	
07/06/2023	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
Process Wastewater	Process wastewater	50.57	9.71	68.10	336.46	755,974.32 gal
Application event totals		50.57	9.71	68.10	336.46	

2 - 04/12/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 04/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/22/2022	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
Manure	Corral solids	204.00	76.00	253.00	2,566.20	155.00 ton
Application event totals		204.00	76.00	253.00	2,566.20	

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2 - 04/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	55.75	2.49	25.70	437.67	286,748.88 gal
Canal	Surface water	2.13	0.00	0.00	563.13	39,470,331.63 gal
Application event totals		57.87	2.49	25.70	1,000.81	
05/17/2023	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
Process Wastewater	Process wastewater	36.73	8.34	54.19	340.41	645,184.98 gal
Application event totals		36.73	8.34	54.19	340.41	

20 - 11/20/2020: Alfalfa, hay

Field name: 20

Crop: Alfalfa, hay

Plant date: 11/20/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	2.16	0.00	0.00	573.37	49,262,154.18 gal
Application event totals		2.16	0.00	0.00	573.37	

26 - 11/28/2022: Alfalfa, hay

Field name: 26

Crop: Alfalfa, hay

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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26 - 11/28/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	2.17	0.00	0.00	575.68	37,746,579.84 gal
Application event totals		2.17	0.00	0.00	575.68	

27 - 11/28/2022: Alfalfa, hay

Field name: 27

Crop: Alfalfa, hay

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	2.18	0.00	0.00	576.48	58,653,180.00 gal
Application event totals		2.18	0.00	0.00	576.48	

28 - 01/15/2018: Pistachios

Field name: 28

Crop: Pistachios

Plant date: 01/15/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/01/2023	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
Canal	Surface water	1.07	0.00	0.00	283.70	21,167,280.96 gal
Application event totals		1.07	0.00	0.00	283.70	

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28 - 01/15/2018: Pistachios

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Commercial Fertilizer	Liquid commercial fertilizer	55.00	0.00	0.00	0.00
Application event totals		55.00	0.00	0.00	0.00

29 - 01/15/2018: Pistachios

Field name: 29

Crop: Pistachios

Plant date: 01/15/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	1.08	0.00	0.00	285.96 23,275,536.93 gal
Application event totals		1.08	0.00	0.00	285.96
05/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Amount
Commercial Fertilizer	Liquid commercial fertilizer	55.00	0.00	0.00	0.00
Application event totals		55.00	0.00	0.00	0.00

3 - 04/10/2018: Alfalfa, hay

Field name: 3

Crop: Alfalfa, hay

Plant date: 04/10/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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3 - 04/10/2018: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	2.17	0.00	0.00	576.20	74,258,184.39 gal
Application event totals		2.17	0.00	0.00	576.20	

30 - 04/17/2023: Corn, silage

Field name: 30

Crop: Corn, silage

Plant date: 04/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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
Manure	Corral solids	163.20	60.80	202.40	2,052.96	300.00 ton
Application event totals		163.20	60.80	202.40	2,052.96	
03/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	104.21	4.65	48.05	818.18	1,296,886.98 gal
Canal	Surface water	2.06	0.00	0.00	544.96	92,411,343.60 gal
Application event totals		106.27	4.65	48.05	1,363.14	
05/16/2023	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
Process Wastewater	Process wastewater	25.46	5.78	37.56	235.93	1,081,825.32 gal
Application event totals		25.46	5.78	37.56	235.93	

4 - 11/03/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

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4 - 11/03/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2022	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
Manure	Corral solids	122.40	45.60	151.80	1,539.72	225.00 ton
Application event totals		122.40	45.60	151.80	1,539.72	
11/04/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	34.31	5.31	26.36	185.89	720,130.71 gal
4B	Ground water	24.57	0.00	0.00	556.63	17,250,551.94 gal
Application event totals		58.88	5.31	26.36	742.52	
03/07/2023	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
Process Wastewater	Process wastewater	52.11	2.32	24.03	409.09	648,443.49 gal
Canal	Surface water	0.56	0.00	0.00	147.96	25,090,527.00 gal
Application event totals		52.67	2.32	24.03	557.05	

4 - 06/15/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/10/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	165.60	56.40	231.60	0.00	450.00 ton
Application event totals		165.60	56.40	231.60	0.00	

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4 - 06/15/2023: Corn, silage

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
Process Wastewater	Process wastewater	40.64	9.22	59.95	376.63	1,727,010.30 gal
Canal	Surface water	1.87	0.00	0.00	494.42	83,841,462.30 gal
Application event totals		42.51	9.22	59.95	871.06	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	60.07	11.53	80.90	399.69	1,727,010.30 gal
Application event totals		60.07	11.53	80.90	399.69	

40 - 11/16/2022: Wheat, silage, soft dough

Field name: 40

Crop: Wheat, silage, soft dough Plant date: 11/16/2022

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
Manure	Corral solids	140.80	50.40	148.00	4,596.35	164.00 ton
Application event totals		140.80	50.40	148.00	4,596.35	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	28.84	7.30	102.87	583.64	358,436.10 gal
1	Ground water	19.25	0.00	0.00	482.08	9,361,699.23 gal
Application event totals		48.08	7.30	102.87	1,065.72	

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40 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	49.28	3.93	84.04	831.63
Canal	Surface water	0.68	0.00	0.00	180.43
Application event totals		49.96	3.93	84.04	1,012.06

40 - 06/12/2023: Corn, silage

Field name: 40

Crop: Corn, silage Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/06/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	202.00	55.00	394.00	0.00
Application event totals		202.00	55.00	394.00	0.00
05/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	46.43	10.54	68.49	430.27
Canal	Surface water	2.04	0.00	0.00	541.36
Application event totals		48.47	10.54	68.49	971.63
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)
Process Wastewater	Process wastewater	55.15	10.59	74.27	366.95
Application event totals		55.15	10.59	74.27	366.95

41 - 10/16/2019: Alfalfa, hay

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41 - 10/16/2019: Alfalfa, hay

Field name: 41

Crop: Alfalfa, hay

Plant date: 10/16/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	2.18	0.00	0.00	576.82	54,775,553.10 gal
Application event totals		2.18	0.00	0.00	576.82	

5 - 06/13/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	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
Manure	Corral solids	204.00	76.00	253.00	2,566.20	270.00 ton
Application event totals		204.00	76.00	253.00	2,566.20	
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
Process Wastewater	Process wastewater	28.22	6.41	41.63	261.55	863,505.15 gal
Canal	Surface water	1.55	0.00	0.00	411.06	50,187,571.02 gal
Application event totals		29.77	6.41	41.63	672.61	
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
Process Wastewater	Process wastewater	55.72	10.70	75.05	370.78	1,153,512.54 gal
Application event totals		55.72	10.70	75.05	370.78	

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5 - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
5B	Ground water	9.67	0.00	0.00	357.74
Application event totals		9.67	0.00	0.00	357.74

6 - 11/07/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	122.40	45.60	151.80	1,539.72
Application event totals		122.40	45.60	151.80	1,539.72
11/08/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	42.89	6.64	32.95	232.37
7	Ground water	10.39	0.00	0.00	359.18
Application event totals		53.28	6.64	32.95	591.55
03/10/2023	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)
Process Wastewater	Process wastewater	57.93	2.58	26.71	454.83
Canal	Surface water	0.57	0.00	0.00	151.13
Application event totals		58.50	2.58	26.71	605.96

6 - 06/16/2023: Corn, silage

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6 - 06/16/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/12/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	165.60	56.40	231.60	0.00	360.00 ton
Application event totals		165.60	56.40	231.60	0.00	
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
Process Wastewater	Process wastewater	44.48	10.09	65.61	412.16	1,511,948.64 gal
Canal	Surface water	1.86	0.00	0.00	493.25	66,913,502.85 gal
Application event totals		46.34	10.09	65.61	905.41	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	48.59	9.33	65.44	323.33	1,117,668.93 gal
Application event totals		48.59	9.33	65.44	323.33	

60 - 10/31/2022: Wheat, silage, soft dough

Field name: 60

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

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
Manure	Corral solids	176.00	63.00	185.00	5,745.44	290.00 ton
Application event totals		176.00	63.00	185.00	5,745.44	

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60 - 10/31/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	38.18	9.66	136.18	772.64	671,253.06 gal
60	Ground water	0.81	0.00	0.00	463.57	14,008,334.49 gal
Application event totals		38.98	9.66	136.18	1,236.20	
02/28/2023	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
Process Wastewater	Process wastewater	34.84	2.78	59.41	587.87	479,000.97 gal
Canal	Surface water	0.65	0.00	0.00	171.13	22,441,358.37 gal
Application event totals		35.48	2.78	59.41	759.00	

60 - 06/29/2023: Corn, silage

Field name: 60

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/06/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	202.00	55.00	394.00	0.00	290.00 ton
Application event totals		202.00	55.00	394.00	0.00	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	46.01	10.44	67.87	426.37	1,511,948.64 gal
Canal	Surface water	1.84	0.00	0.00	486.92	63,853,761.96 gal
Application event totals		47.85	10.44	67.87	913.30	

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60 - 06/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	51.88	9.96	69.87	345.21
Application event totals		51.88	9.96	69.87	345.21
					1,153,512.54 gal

61 - 10/30/2019: Alfalfa, hay

Field name: 61

Crop: Alfalfa, hay

Plant date: 10/30/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	1.66	0.00	0.00	438.80
Application event totals		1.66	0.00	0.00	438.80
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.56	0.00	0.00	149.60
Application event totals		0.56	0.00	0.00	149.60
					32,132,167.11 gal

62 - 04/22/2023: Corn, silage

Field name: 62

Crop: Corn, silage

Plant date: 04/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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62 - 04/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/23/2022	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
Manure	Corral solids	176.00	63.00	185.00	5,745.44	475.00 ton
Application event totals		176.00	63.00	185.00	5,745.44	
03/29/2023	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
Process Wastewater	Process wastewater	87.86	3.92	40.51	689.75	1,384,866.75 gal
Canal	Surface water	1.49	0.00	0.00	396.07	85,073,179.08 gal
Application event totals		89.35	3.92	40.51	1,085.82	
05/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	37.41	8.49	55.19	346.71	2,013,759.18 gal
Application event totals		37.41	8.49	55.19	346.71	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.51	0.00	0.00	136.29	29,274,453.84 gal
Application event totals		0.51	0.00	0.00	136.29	

7 - 10/17/2019: Alfalfa, hay

Field name: 7

Crop: Alfalfa, hay

Plant date: 10/17/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	1.08	0.00	0.00	286.03	30,395,381.28 gal
Application event totals		1.08	0.00	0.00	286.03	

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7 - 10/17/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
7	Ground water	88.41	0.00	0.00	1,713.00
Application event totals		88.41	0.00	0.00	1,713.00
					31,122,029.01 gal

9 - 04/19/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 04/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/23/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	246.40	88.20	259.00	8,043.62
Application event totals		246.40	88.20	259.00	8,043.62
03/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	24.58	1.96	41.91	414.70
Canal	Surface water	2.02	0.00	0.00	535.21
Application event totals		26.60	1.96	41.91	949.90
05/18/2023	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)
Process Wastewater	Process wastewater	9.13	1.58	9.79	61.59
Application event totals		9.13	1.58	9.79	61.59
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	24.05	5.46	35.48	222.88
Application event totals		24.05	5.46	35.48	222.88
					899,348.76 gal

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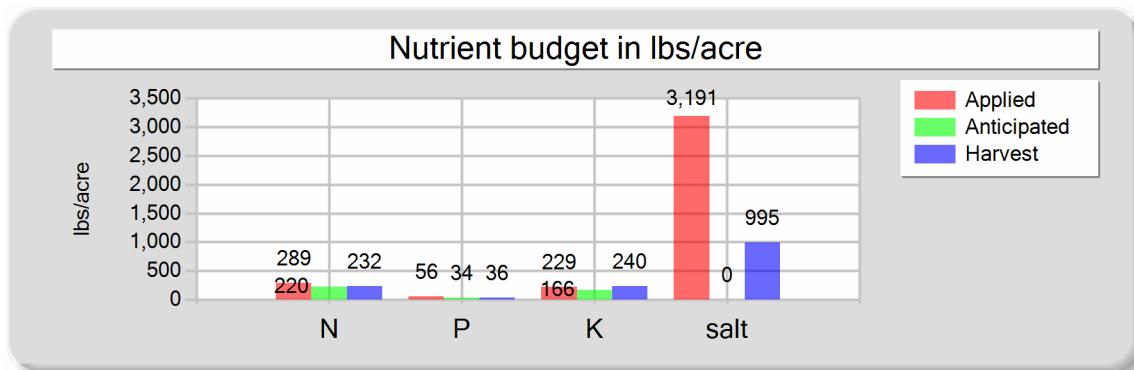
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**B. NUTRIENT BUDGET**

1 - 11/03/2022: Wheat, silage, soft dough

Field name: 1      Crop: Wheat, silage, soft dough      Plant date: 11/03/2022



	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	122.40	45.60	151.80	1,539.72
Process wastewater	138.70	10.89	77.07	985.09
Fresh water	21.36	0.00	0.00	666.64
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>289.46</b>	<b>56.49</b>	<b>228.87</b>	<b>3,191.45</b>
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	232.00	36.00	240.00	995.40
Nutrient balance	57.46	20.49	-11.13	2,196.05
Applied to removed ratio	1.25	1.57	0.95	3.21

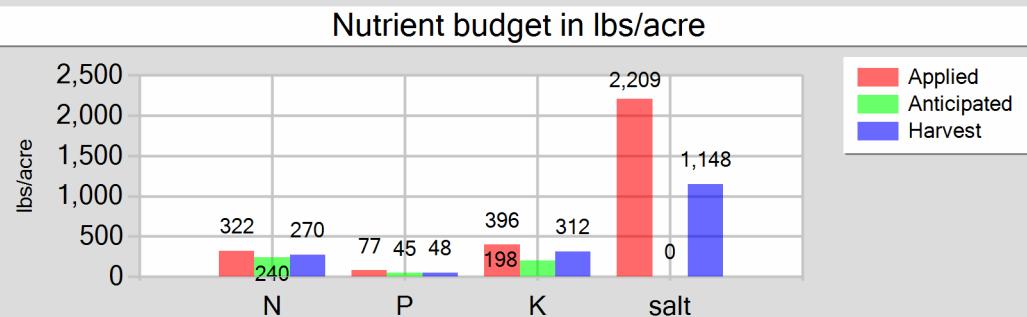
Fresh water applied
10,358,803.29 gallons
381.48 acre-inches
21.19 inches/acre
Process wastewater applied
501,810.54 gallons
18.48 acre-inches
1.03 inches/acre
Total harvests for the crop
1 harvests

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1 - 06/15/2023: Corn, silage

Field name: 1      Crop: Corn, silage      Plant date: 06/15/2023



	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	138.00	47.00	193.00	0.00
Process wastewater	146.86	29.68	203.24	1,088.23
Fresh water	30.57	0.00	0.00	1,120.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	322.43	76.68	396.24	2,208.83
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	270.00	48.00	312.00	1,148.40
Nutrient balance	52.43	28.68	84.24	1,060.43
Applied to removed ratio	1.19	1.60	1.27	1.92

**Fresh water applied**

19,381,617.48 gallons
713.76 acre-inches
39.65 inches/acre

**Process wastewater applied**

1,153,512.54 gallons
42.48 acre-inches
2.36 inches/acre

**Total harvests for the crop**

1 harvests
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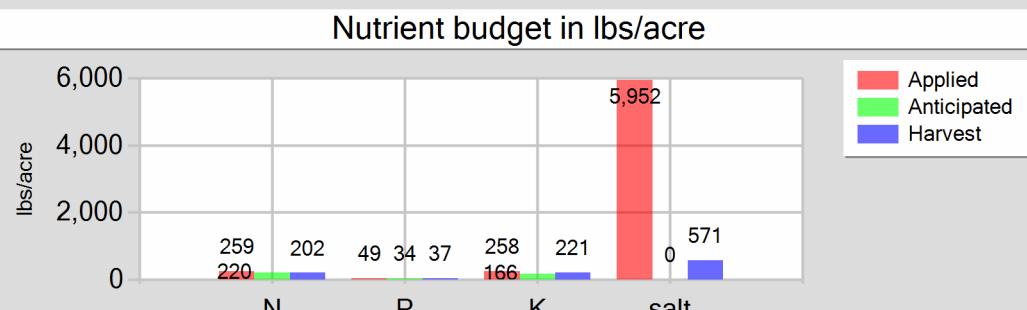
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10 - 11/10/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022



	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	105.60	37.80	111.00	3,447.26
Process wastewater	75.43	10.90	147.08	1,040.08
Fresh water	71.09	0.00	0.00	1,464.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.12	48.70	258.08	5,952.19
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	202.40	36.80	220.80	571.46
Nutrient balance	56.72	11.90	37.28	5,380.73
Applied to removed ratio	1.28	1.32	1.17	10.42

**Fresh water applied**

12,457,283.73 gallons  
458.76 acre-inches  
20.85 inches/acre

**Process wastewater applied**

384,504.18 gallons  
14.16 acre-inches  
0.64 inches/acre

**Total harvests for the crop**

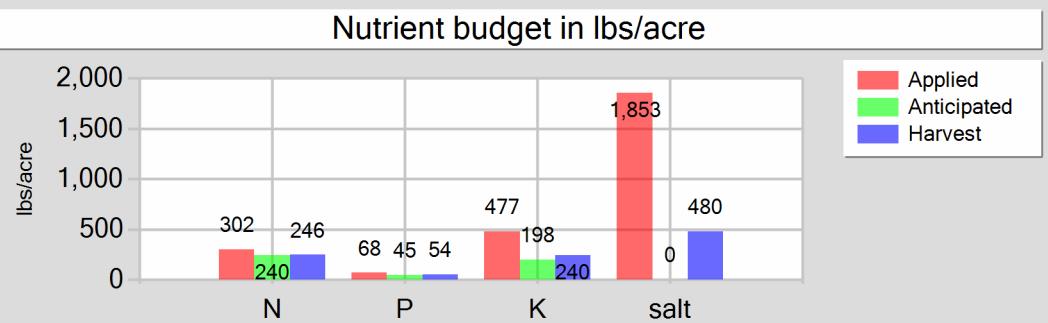
1 harvests

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10 - 06/19/2023: Corn, silage

Field name: 10      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	121.20	33.00	236.40	0.00
Process wastewater	172.05	35.45	240.61	1,325.85
Fresh water	1.99	0.00	0.00	526.95
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	302.24	68.45	477.01	1,852.80
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.00	54.00	240.00	479.52
Nutrient balance	56.24	14.45	237.01	1,373.28
Applied to removed ratio	1.23	1.27	1.99	3.86

**Fresh water applied**  
26,211,454.44 gallons  
965.28 acre-inches  
43.88 inches/acre

**Process wastewater applied**  
1,730,268.81 gallons  
63.72 acre-inches  
2.90 inches/acre

**Total harvests for the crop**  
1 harvests

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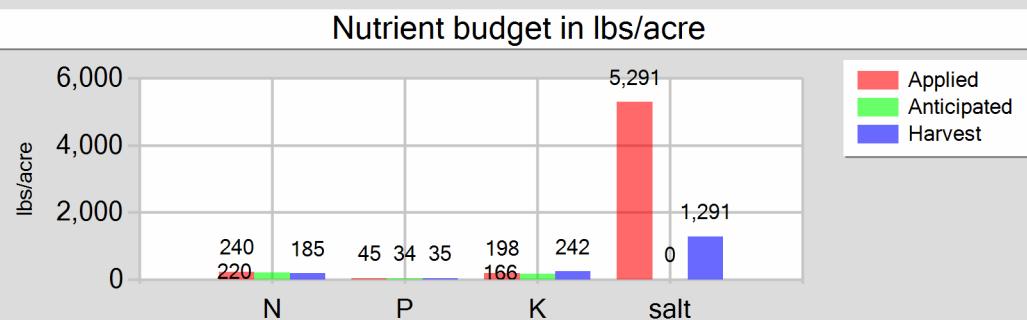
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11 - 11/10/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022



	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	105.60	37.80	111.00	3,447.26
Process wastewater	83.75	6.98	87.06	850.74
Fresh water	43.24	0.00	0.00	992.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.60	44.78	198.06	5,290.96
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	184.80	35.20	242.00	1,291.14
Nutrient balance	54.80	9.58	-43.94	3,999.82
Applied to removed ratio	1.30	1.27	0.82	4.10

**Fresh water applied**  
29,844,693.09 gallons  
1,099.08 acre-inches  
21.55 inches/acre

**Process wastewater applied**  
817,886.01 gallons  
30.12 acre-inches  
0.59 inches/acre

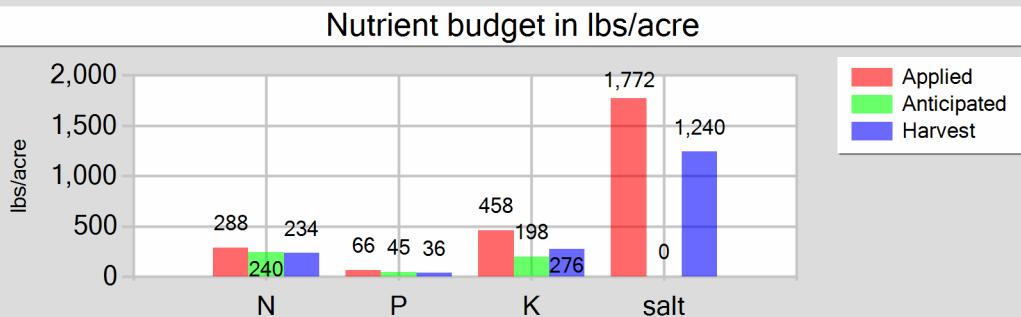
**Total harvests for the crop**  
1 harvests

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

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

11 - 06/24/2023: Corn, silage

Field name: 11      Crop: Corn, silage      Plant date: 06/24/2023



	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	121.20	33.00	236.40	0.00
Process wastewater	158.14	32.80	221.94	1,234.66
Fresh water	2.03	0.00	0.00	537.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.37	65.80	458.34	1,772.45
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	234.00	36.00	276.00	1,240.20
Nutrient balance	54.37	29.80	182.34	532.25
Applied to removed ratio	1.23	1.83	1.66	1.43

**Fresh water applied**  
62,012,703.81 gallons  
2,283.72 acre-inches  
44.78 inches/acre

**Process wastewater applied**  
3,744,027.99 gallons  
137.88 acre-inches  
2.70 inches/acre

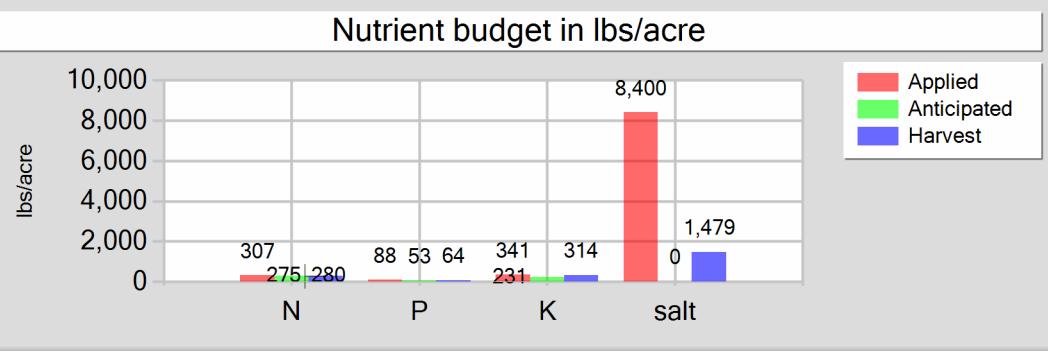
**Total harvests for the crop**  
1 harvests

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

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

12 - 04/20/2023: Corn, silage

Field name: 12      Crop: Corn, silage      Plant date: 04/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	211.20	75.60	222.00	6,894.53
Process wastewater	79.52	12.34	118.99	953.05
Fresh water	2.08	0.00	0.00	552.49
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	306.80	87.94	340.99	8,400.07
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	275.20	64.00	313.60	1,479.36
Nutrient balance	31.60	23.94	27.39	6,920.71
Applied to removed ratio	1.11	1.37	1.09	5.68

**Fresh water applied**  
91,189,402.35 gallons  
3,358.20 acre-inches  
46.00 inches/acre

**Process wastewater applied**  
2,307,025.08 gallons  
84.96 acre-inches  
1.16 inches/acre

**Total harvests for the crop**  
1 harvests

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

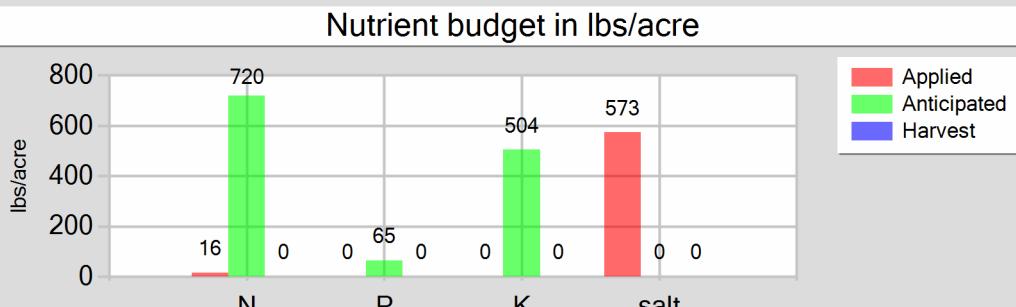
Reporting period 01/01/2023 to 12/31/2023.

13 - 11/01/2018: Alfalfa, hay

Field name: 13

Crop: Alfalfa, hay

Plant date: 11/01/2018



	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	2.16	0.00	0.00	572.86
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.16	0.00	0.00	572.86
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	16.16	0.00	0.00	572.86
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

111,388,905.84 gallons  
4,102.07 acre-inches  
47.70 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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

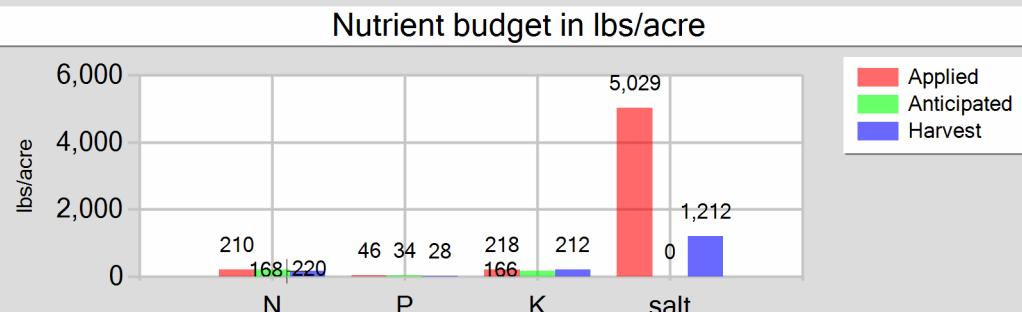
Reporting period 01/01/2023 to 12/31/2023.

14 - 11/21/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022



	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	48,294,376.71 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,778.52 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.17 inches/acre
Dry manure	105.60	37.80	111.00	3,447.26	
Process wastewater	92.97	8.47	107.25	986.70	1,534,758.21 gallons
Fresh water	4.68	0.00	0.00	595.40	56.52 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.67 inches/acre
Total nutrients applied	210.26	46.27	218.25	5,029.36	
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00	
Actual crop nutrient removal	168.00	28.00	212.00	1,212.20	
Nutrient balance	42.26	18.27	6.25	3,817.16	
Applied to removed ratio	1.25	1.65	1.03	4.15	
Total harvests for the crop					1 harvests

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

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

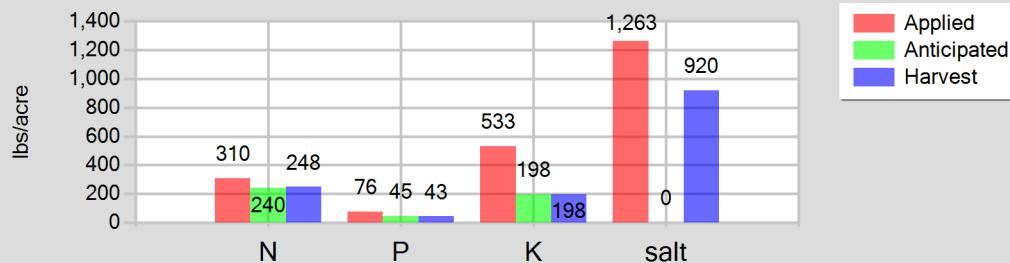
14 - 06/29/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/29/2023

**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	202.00	55.00	394.00	0.00
Process wastewater	99.03	20.60	139.19	777.53
Fresh water	1.83	0.00	0.00	485.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	309.86	75.60	533.19	1,263.06
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	248.00	43.40	198.40	919.58
Nutrient balance	61.86	32.20	334.79	343.47
Applied to removed ratio	1.25	1.74	2.69	1.37

**Fresh water applied**

92,212,574.49 gallons  
3,395.88 acre-inches  
40.43 inches/acre

**Process wastewater applied**

3,887,402.43 gallons  
143.16 acre-inches  
1.70 inches/acre

**Total harvests for the crop**

1 harvests

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

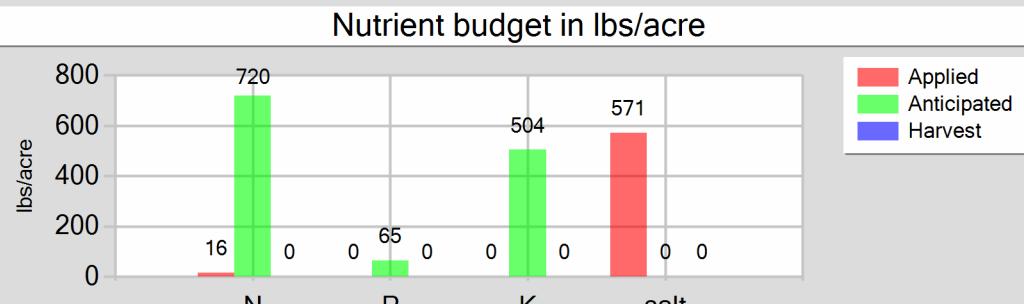
Reporting period 01/01/2023 to 12/31/2023.

16 - 11/29/2022: Alfalfa, hay

Field name: 16

Crop: Alfalfa, hay

Plant date: 11/29/2022



	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	99,345,452.88 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,658.56 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	47.51 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	2.15	0.00	0.00	570.64	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	16.15	0.00	0.00	570.64	0.00 acre-inches
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00	0.00 inches/acre
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	16.15	0.00	0.00	570.64	Total harvests for the crop
Applied to removed ratio	0.00	0.00	0.00	0.00	1 harvests

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

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

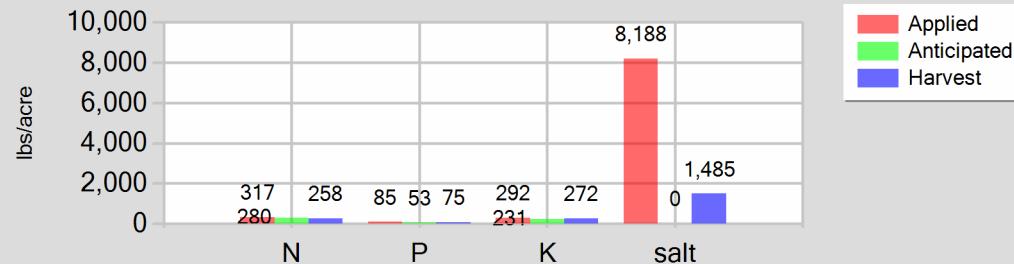
17 - 04/17/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 04/17/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	99,140,166.75 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,651.00 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	45.64 inches/acre
Dry manure	211.20	75.60	222.00	6,894.53	
Process wastewater	89.74	9.22	70.39	745.04	2,108,255.97 gallons
Fresh water	2.07	0.00	0.00	548.10	77.64 acre-inches
Atmospheric deposition	14.00	0.00	0.00	0.00	0.97 inches/acre
Total nutrients applied	317.00	84.82	292.39	8,187.67	
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00	
Actual crop nutrient removal	258.40	74.80	272.00	1,484.98	
Nutrient balance	58.60	10.02	20.39	6,702.68	
Applied to removed ratio	1.23	1.13	1.07	5.51	
Total harvests for the crop					1 harvests

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

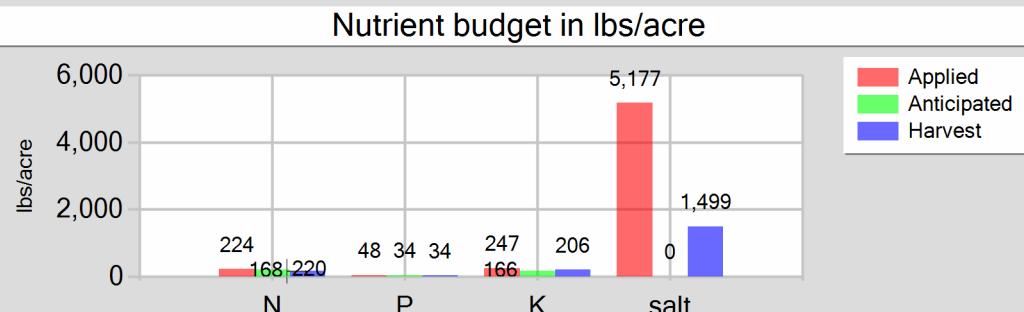
Reporting period 01/01/2023 to 12/31/2023.

18 - 11/15/2022: Wheat, silage, soft dough

Field name: 18

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	22,858,447.65 gallons
Plowdown credit	0.00	0.00	0.00	0.00	841.80 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.04 inches/acre
Dry manure	105.60	37.80	111.00	3,447.26	
Process wastewater	109.18	10.64	136.31	1,200.01	876,539.19 gallons
Fresh water	2.57	0.00	0.00	530.01	32.28 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.81 inches/acre
Total nutrients applied	224.35	48.44	247.31	5,177.28	
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00	
Actual crop nutrient removal	168.00	33.60	205.80	1,498.64	
Nutrient balance	56.35	14.84	41.51	3,678.64	
Applied to removed ratio	1.34	1.44	1.20	3.45	
Total harvests for the crop					1 harvests

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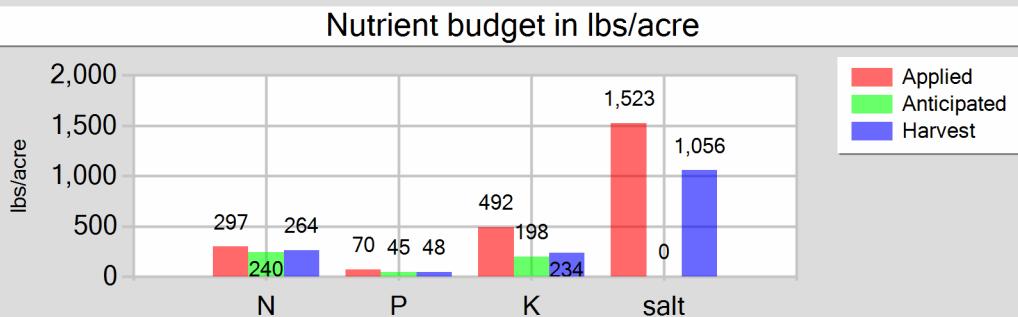
Reporting period 01/01/2023 to 12/31/2023.

18 - 06/21/2023: Corn, silage

Field name: 18

Crop: Corn, silage

Plant date: 06/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	161.60	44.00	315.20	0.00
Process wastewater	126.20	26.17	177.10	985.09
Fresh water	2.03	0.00	0.00	537.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	296.83	70.17	492.30	1,523.05
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	264.00	48.00	234.00	1,056.00
Nutrient balance	32.83	22.17	258.30	467.05
Applied to removed ratio	1.12	1.46	2.10	1.44

**Fresh water applied**

48,652,812.81 gallons  
1,791.72 acre-inches  
44.79 inches/acre

**Process wastewater applied**

2,342,868.69 gallons  
86.28 acre-inches  
2.16 inches/acre

**Total harvests for the crop**

1 harvests

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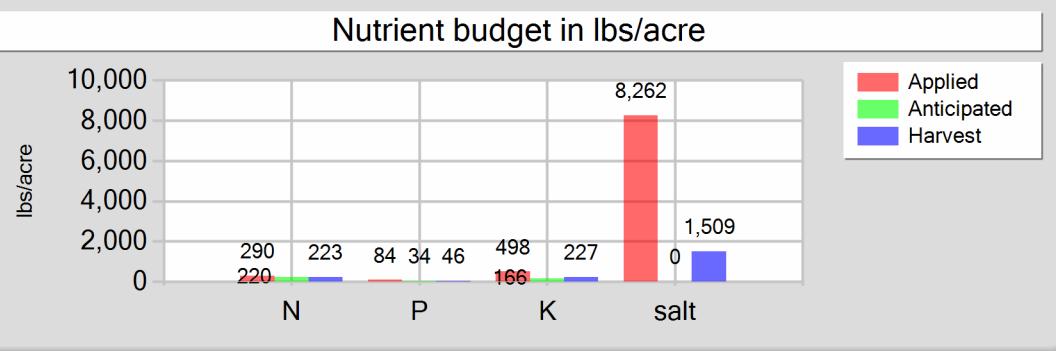
Reporting period 01/01/2023 to 12/31/2023.

19 - 11/15/2022: Wheat, silage, soft dough

Field name: 19

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,923,255.28 gallons
Plowdown credit	0.00	0.00	0.00	0.00	807.36 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	20.70 inches/acre
Dry manure	176.00	63.00	185.00	5,745.44	
Process wastewater	104.05	20.95	313.41	2,001.52	Process wastewater applied
Fresh water	2.49	0.00	0.00	514.56	1,150,254.03 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	42.36 acre-inches
Total nutrients applied	289.55	83.95	498.41	8,261.51	1.09 inches/acre
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00	
Actual crop nutrient removal	222.60	46.20	226.80	1,508.60	Total harvests for the crop
Nutrient balance	66.95	37.75	271.61	6,752.92	1 harvests
Applied to removed ratio	1.30	1.82	2.20	5.48	

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

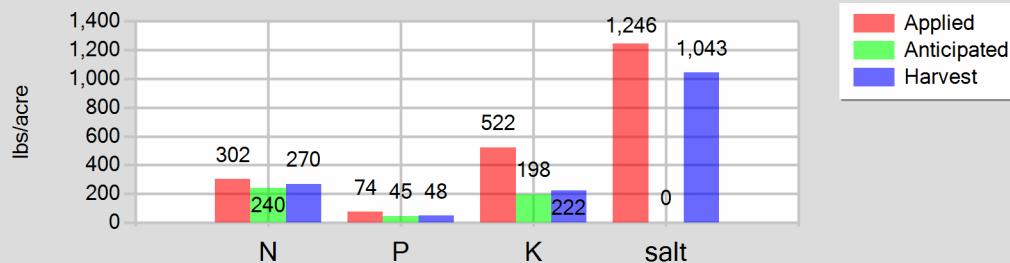
19 - 06/08/2023: Corn, silage

Field name: 19

Crop: Corn, silage

Plant date: 06/08/2023

**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	202.00	55.00	394.00	0.00
Process wastewater	91.27	18.94	128.14	713.64
Fresh water	2.01	0.00	0.00	532.06
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	302.27	73.94	522.14	1,245.69
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	270.00	48.00	222.00	1,042.80
Nutrient balance	32.27	25.94	300.14	202.89
Applied to removed ratio	1.12	1.54	2.35	1.19

**Fresh water applied**

46,916,026.98 gallons  
1,727.76 acre-inches  
44.30 inches/acre

**Process wastewater applied**

1,655,323.08 gallons  
60.96 acre-inches  
1.56 inches/acre

**Total harvests for the crop**

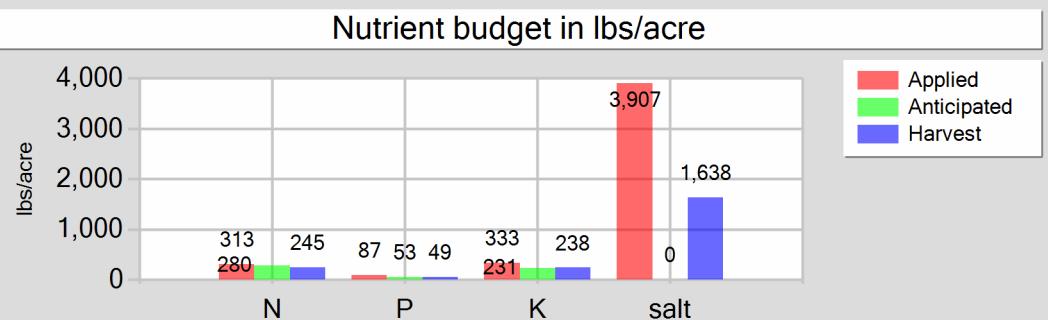
1 harvests

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

2 - 04/12/2023: Corn, silage

Field name: 2      Crop: Corn, silage      Plant date: 04/12/2023



	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	204.00	76.00	253.00	2,566.20
Process wastewater	92.48	10.82	79.89	778.08
Fresh water	2.13	0.00	0.00	563.13
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>312.61</b>	<b>86.82</b>	<b>332.89</b>	<b>3,907.42</b>
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	245.00	49.00	238.00	1,638.00
<b>Nutrient balance</b>	<b>67.61</b>	<b>37.82</b>	<b>94.89</b>	<b>2,269.42</b>
Applied to removed ratio	1.28	1.77	1.40	2.39

**Fresh water applied**  
39,470,331.63 gallons  
1,453.56 acre-inches  
46.89 inches/acre

**Process wastewater applied**  
931,933.86 gallons  
34.32 acre-inches  
1.11 inches/acre

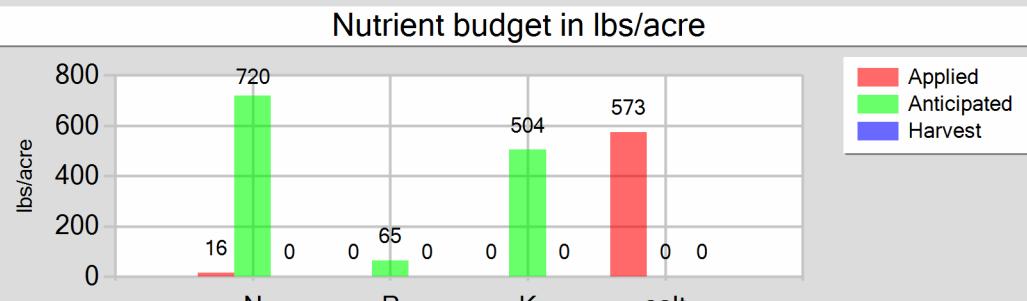
**Total harvests for the crop**  
1 harvests

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

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

20 - 11/20/2020: Alfalfa, hay

Field name: 20      Crop: Alfalfa, hay      Plant date: 11/20/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.16	0.00	0.00	573.37
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.16	0.00	0.00	573.37
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	16.16	0.00	0.00	573.37
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**  
49,262,154.18 gallons  
1,814.16 acre-inches  
47.74 inches/acre

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

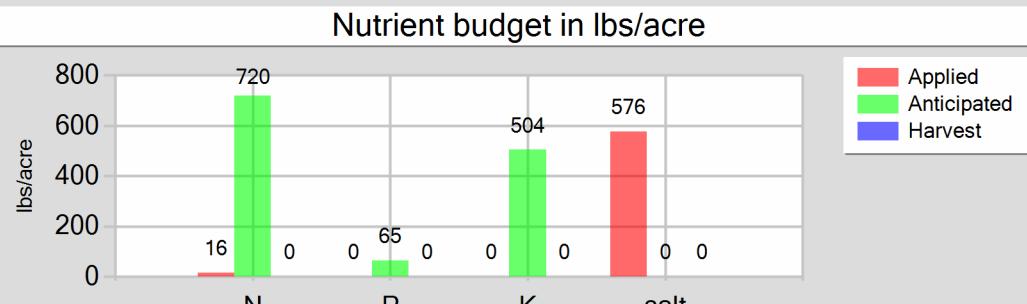
**Total harvests for the crop**  
1 harvests

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

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

26 - 11/28/2022: Alfalfa, hay

Field name: 26      Crop: Alfalfa, hay      Plant date: 11/28/2022



	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	37,746,579.84 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,390.08 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	47.93 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	2.17	0.00	0.00	575.68	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	16.17	0.00	0.00	575.68	0.00 acre-inches
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00	0.00 inches/acre
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	16.17	0.00	0.00	575.68	Total harvests for the crop
Applied to removed ratio	0.00	0.00	0.00	0.00	1 harvests

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

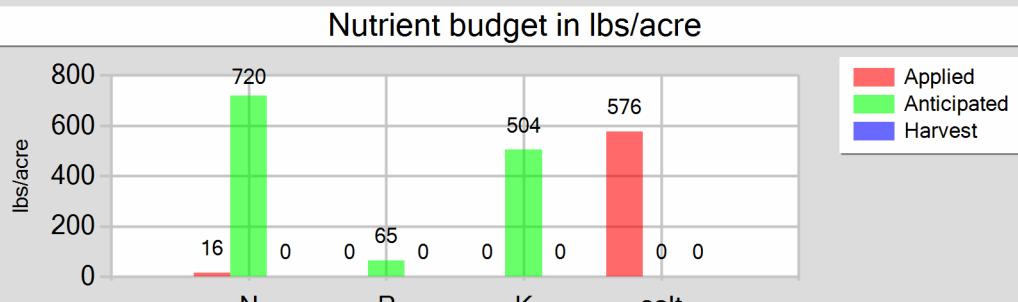
Reporting period 01/01/2023 to 12/31/2023.

27 - 11/28/2022: Alfalfa, hay

Field name: 27

Crop: Alfalfa, hay

Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.18	0.00	0.00	576.48
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.18	0.00	0.00	576.48
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	16.18	0.00	0.00	576.48
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

58,653,180.00 gallons  
2,160.00 acre-inches  
48.00 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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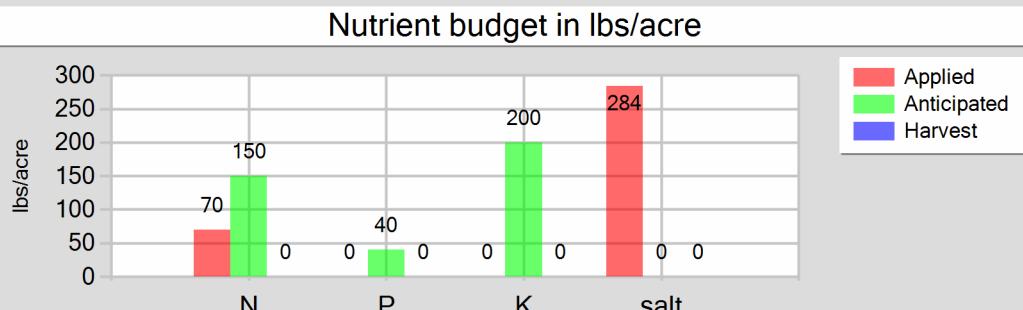
Reporting period 01/01/2023 to 12/31/2023.

28 - 01/15/2018: Pistachios

Field name: 28

Crop: Pistachios

Plant date: 01/15/2018



	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	21,167,280.96 gallons
Plowdown credit	0.00	0.00	0.00	0.00	779.52 acre-inches
Commercial fertilizer / Other	55.00	0.00	0.00	0.00	23.62 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	1.07	0.00	0.00	283.70	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	70.07	0.00	0.00	283.70	
Anticipated crop nutrient removal	150.00	40.00	200.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	70.07	0.00	0.00	283.70	
Applied to removed ratio	0.00	0.00	0.00	0.00	
Total harvests for the crop					1 harvests

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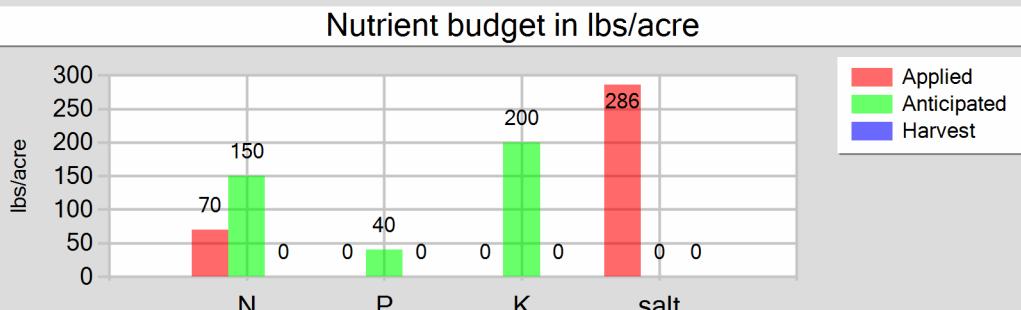
Reporting period 01/01/2023 to 12/31/2023.

29 - 01/15/2018: Pistachios

Field name: 29

Crop: Pistachios

Plant date: 01/15/2018



	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	55.00	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	1.08	0.00	0.00	285.96
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	70.08	0.00	0.00	285.96
Anticipated crop nutrient removal	150.00	40.00	200.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	70.08	0.00	0.00	285.96
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

23,275,536.93 gallons  
857.16 acre-inches  
23.81 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

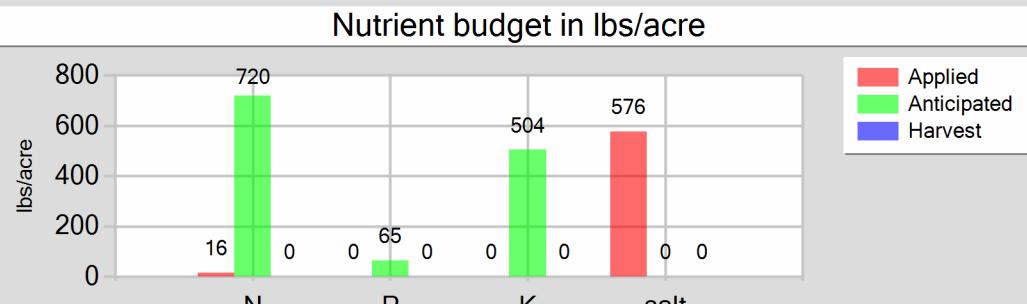
1 harvests

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

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

3 - 04/10/2018: Alfalfa, hay

Field name: 3      Crop: Alfalfa, hay      Plant date: 04/10/2018



	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	2.17	0.00	0.00	576.20
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.17	0.00	0.00	576.20
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	16.17	0.00	0.00	576.20
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**  
74,258,184.39 gallons  
2,734.68 acre-inches  
47.98 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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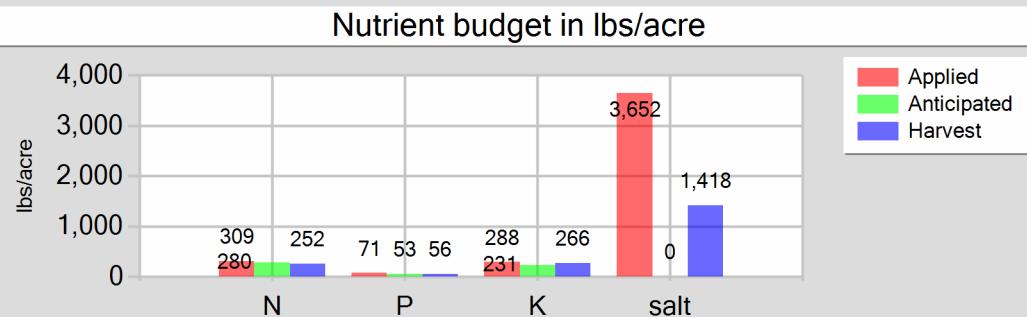
Reporting period 01/01/2023 to 12/31/2023.

30 - 04/17/2023: Corn, silage

Field name: 30

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	163.20	60.80	202.40	2,052.96
Process wastewater	129.67	10.42	85.61	1,054.11
Fresh water	2.06	0.00	0.00	544.96
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>308.93</b>	<b>71.22</b>	<b>288.01</b>	<b>3,652.03</b>
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	252.00	56.00	266.00	1,417.64
<b>Nutrient balance</b>	<b>56.93</b>	<b>15.22</b>	<b>22.01</b>	<b>2,234.39</b>
Applied to removed ratio	1.23	1.27	1.08	2.58

**Fresh water applied**

92,411,343.60 gallons  
3,403.20 acre-inches  
45.38 inches/acre

**Process wastewater applied**

2,378,712.30 gallons  
87.60 acre-inches  
1.17 inches/acre

**Total harvests for the crop**

1 harvests

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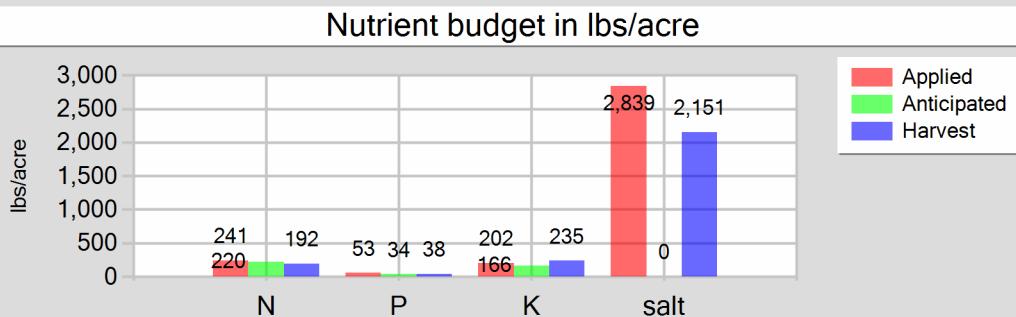
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/03/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022



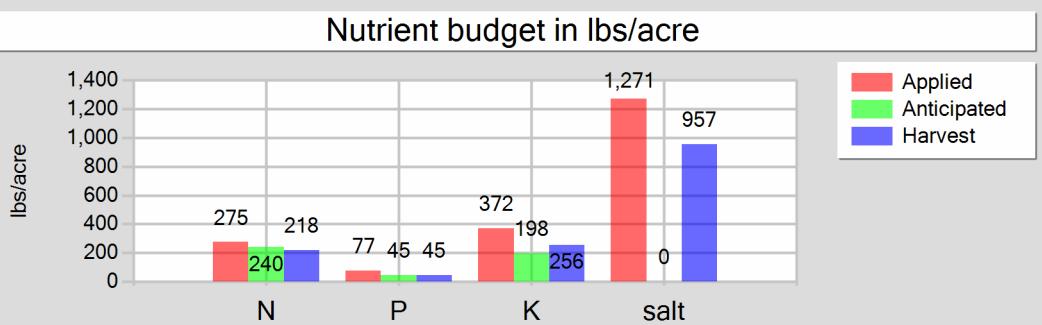
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	42,341,078.94 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,559.28 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	20.79 inches/acre
Dry manure	122.40	45.60	151.80	1,539.72	
Process wastewater	86.42	7.64	50.39	594.98	Process wastewater applied
Fresh water	25.13	0.00	0.00	704.59	1,368,574.20 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	50.40 acre-inches
Total nutrients applied	240.94	53.24	202.19	2,839.30	0.67 inches/acre
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00	
Actual crop nutrient removal	192.00	38.40	235.20	2,150.64	Total harvests for the crop
Nutrient balance	48.94	14.84	-33.01	688.66	1 harvests
Applied to removed ratio	1.25	1.39	0.86	1.32	

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

4 - 06/15/2023: Corn, silage

Field name: 4      Crop: Corn, silage      Plant date: 06/15/2023



	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	165.60	56.40	231.60	0.00
Process wastewater	100.71	20.75	140.85	776.32
Fresh water	1.87	0.00	0.00	494.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	275.18	77.15	372.45	1,270.75
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	217.60	44.80	256.00	956.54
Nutrient balance	57.58	32.35	116.45	314.20
Applied to removed ratio	1.26	1.72	1.45	1.33

**Fresh water applied**  
83,841,462.30 gallons  
3,087.60 acre-inches  
41.17 inches/acre

**Process wastewater applied**  
3,454,020.60 gallons  
127.20 acre-inches  
1.70 inches/acre

**Total harvests for the crop**  
1 harvests

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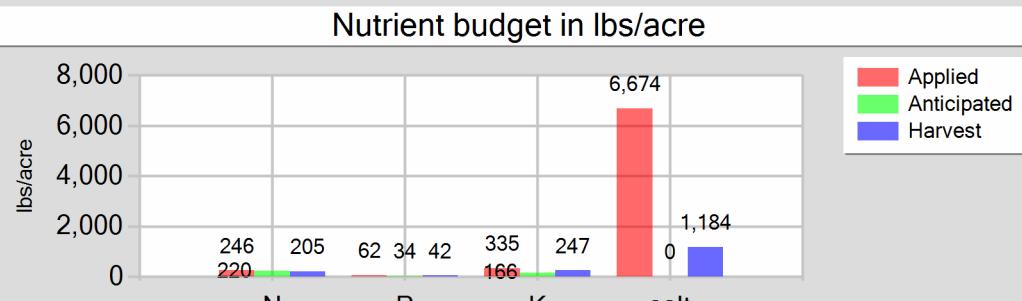
Reporting period 01/01/2023 to 12/31/2023.

40 - 11/16/2022: Wheat, silage, soft dough

Field name: 40

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	140.80	50.40	148.00	4,596.35
Process wastewater	78.12	11.22	186.91	1,415.26
Fresh water	19.93	0.00	0.00	662.51
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>245.85</b>	<b>61.62</b>	<b>334.91</b>	<b>6,674.12</b>
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	205.20	41.80	247.00	1,184.23
<b>Nutrient balance</b>	<b>40.65</b>	<b>19.82</b>	<b>87.91</b>	<b>5,489.89</b>
Applied to removed ratio	1.20	1.47	1.36	5.64

**Fresh water applied**

26,087,631.06 gallons  
960.72 acre-inches  
23.43 inches/acre

**Process wastewater applied**

837,437.07 gallons  
30.84 acre-inches  
0.75 inches/acre

**Total harvests for the crop**

1 harvests

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

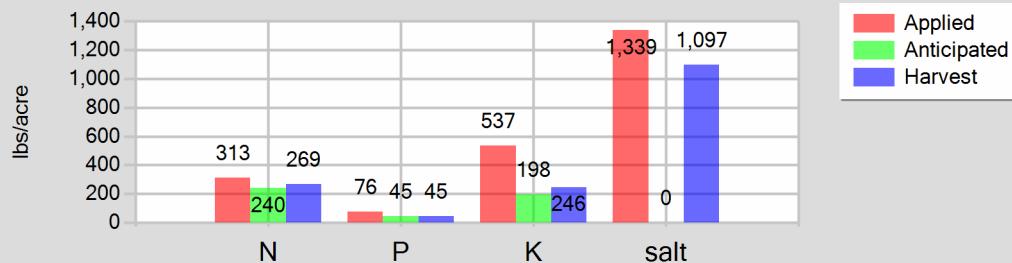
40 - 06/12/2023: Corn, silage

Field name: 40

Crop: Corn, silage

Plant date: 06/12/2023

**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	202.00	55.00	394.00	0.00
Process wastewater	101.58	21.12	142.76	797.22
Fresh water	2.04	0.00	0.00	541.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	312.62	76.12	536.76	1,338.58
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	268.80	44.80	246.40	1,096.93
Nutrient balance	43.82	31.32	290.36	241.66
Applied to removed ratio	1.16	1.70	2.18	1.22

**Fresh water applied**

50,184,312.51 gallons  
1,848.12 acre-inches  
45.08 inches/acre

**Process wastewater applied**

1,945,330.47 gallons  
71.64 acre-inches  
1.75 inches/acre

**Total harvests for the crop**

1 harvests

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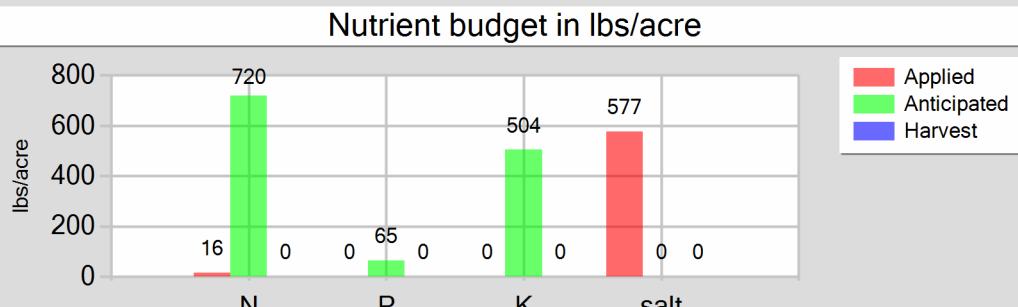
Reporting period 01/01/2023 to 12/31/2023.

41 - 10/16/2019: Alfalfa, hay

Field name: 41

Crop: Alfalfa, hay

Plant date: 10/16/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.18	0.00	0.00	576.82
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.18	0.00	0.00	576.82
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	16.18	0.00	0.00	576.82
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

54,775,553.10 gallons  
2,017.20 acre-inches  
48.03 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

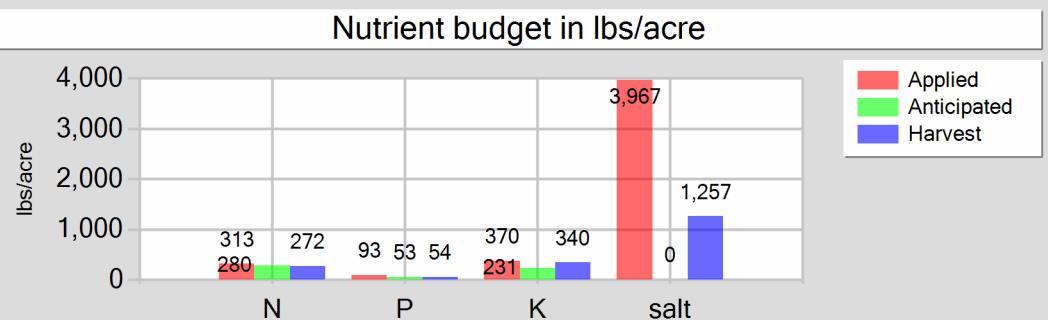
1 harvests

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

5 - 06/13/2023: Corn, silage

Field name: 5      Crop: Corn, silage      Plant date: 06/13/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	204.00	76.00	253.00	2,566.20
Process wastewater	83.95	17.10	116.68	632.33
Fresh water	11.22	0.00	0.00	768.80
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	313.17	93.10	369.68	3,967.33
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	272.00	54.40	340.00	1,256.84
Nutrient balance	41.17	38.70	29.68	2,710.48
Applied to removed ratio	1.15	1.71	1.09	3.16

**Fresh water applied**  
60,122,768.01 gallons  
2,214.12 acre-inches  
41.00 inches/acre

**Process wastewater applied**  
2,017,017.69 gallons  
74.28 acre-inches  
1.38 inches/acre

**Total harvests for the crop**  
1 harvests

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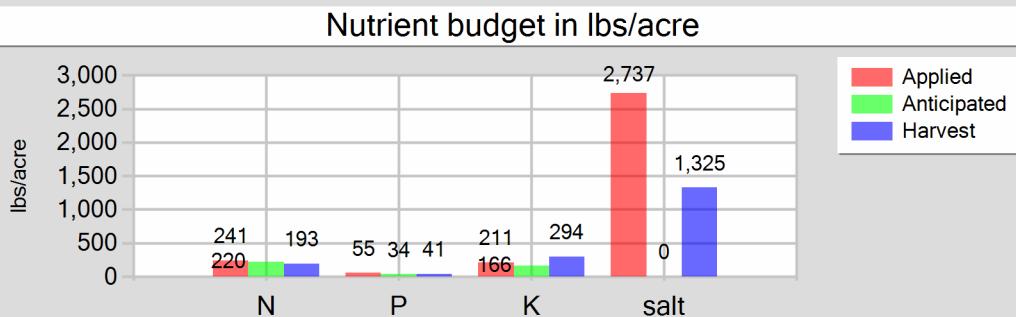
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/07/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022



	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	122.40	45.60	151.80	1,539.72
Process wastewater	100.82	9.22	59.66	687.20
Fresh water	10.96	0.00	0.00	510.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	241.18	54.82	211.46	2,737.23
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	193.20	41.40	294.40	1,324.80
Nutrient balance	47.98	13.42	-82.94	1,412.43
Applied to removed ratio	1.25	1.32	0.72	2.07

**Fresh water applied**

33,611,530.65 gallons  
1,237.80 acre-inches  
20.63 inches/acre

**Process wastewater applied**

1,296,886.98 gallons  
47.76 acre-inches  
0.80 inches/acre

**Total harvests for the crop**

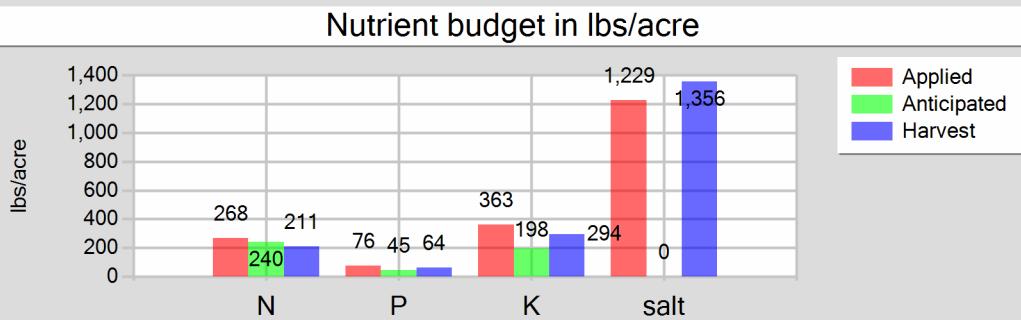
1 harvests

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

6 - 06/16/2023: Corn, silage

Field name: 6      Crop: Corn, silage      Plant date: 06/16/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	165.60	56.40	231.60	0.00
Process wastewater	93.07	19.42	131.05	735.50
Fresh water	1.86	0.00	0.00	493.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	267.53	75.82	362.65	1,228.74
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	211.20	64.00	294.40	1,355.90
Nutrient balance	56.33	11.82	68.25	-127.16
Applied to removed ratio	1.27	1.18	1.23	0.91

**Fresh water applied**  
66,913,502.85 gallons  
2,464.20 acre-inches  
41.07 inches/acre

**Process wastewater applied**  
2,629,617.57 gallons  
96.84 acre-inches  
1.61 inches/acre

**Total harvests for the crop**  
1 harvests

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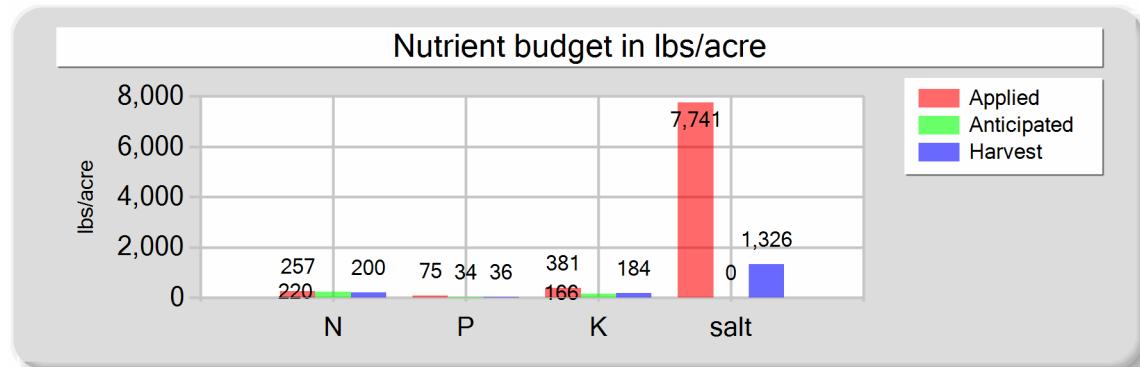
Reporting period 01/01/2023 to 12/31/2023.

60 - 10/31/2022: Wheat, silage, soft dough

Field name: 60

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	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	176.00	63.00	185.00	5,745.44
Process wastewater	73.02	12.44	195.58	1,360.51
Fresh water	1.45	0.00	0.00	634.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	257.47	75.44	380.58	7,740.64
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	200.00	36.00	184.00	1,326.32
Nutrient balance	57.47	39.44	196.58	6,414.32
Applied to removed ratio	1.29	2.10	2.07	5.84

**Fresh water applied**  
36,449,692.86 gallons  
1,342.32 acre-inches  
23.14 inches/acre

**Process wastewater applied**  
1,150,254.03 gallons  
42.36 acre-inches  
0.73 inches/acre

**Total harvests for the crop**  
1 harvests

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

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

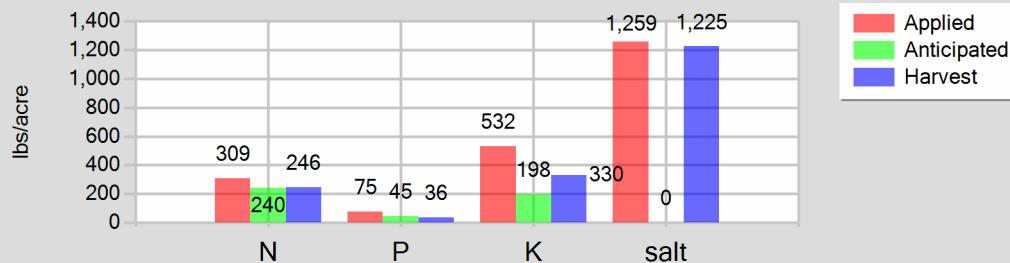
60 - 06/29/2023: Corn, silage

Field name: 60

Crop: Corn, silage

Plant date: 06/29/2023

**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	202.00	55.00	394.00	0.00
Process wastewater	97.89	20.40	137.74	771.59
Fresh water	1.84	0.00	0.00	486.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	308.73	75.40	531.74	1,258.51
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.00	36.00	330.00	1,225.44
Nutrient balance	62.73	39.40	201.74	33.07
Applied to removed ratio	1.25	2.09	1.61	1.03

**Fresh water applied**

63,853,761.96 gallons  
2,351.52 acre-inches  
40.54 inches/acre

**Process wastewater applied**

2,665,461.18 gallons  
98.16 acre-inches  
1.69 inches/acre

**Total harvests for the crop**

1 harvests

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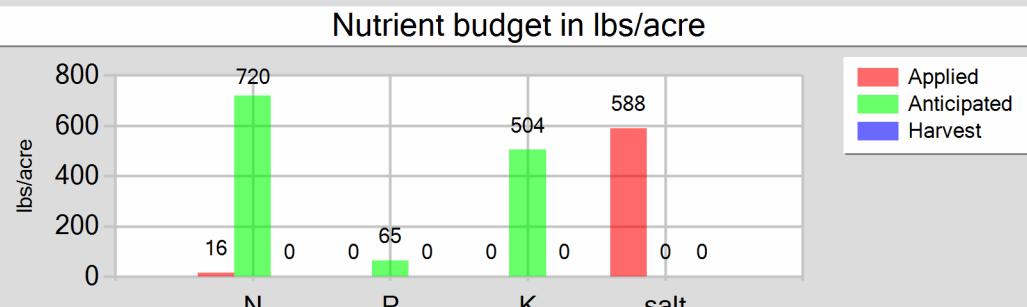
Reporting period 01/01/2023 to 12/31/2023.

61 - 10/30/2019: Alfalfa, hay

Field name: 61

Crop: Alfalfa, hay

Plant date: 10/30/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.22	0.00	0.00	588.40
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.22	0.00	0.00	588.40
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	16.22	0.00	0.00	588.40
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

126,384,568.86 gallons  
4,654.31 acre-inches  
48.99 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

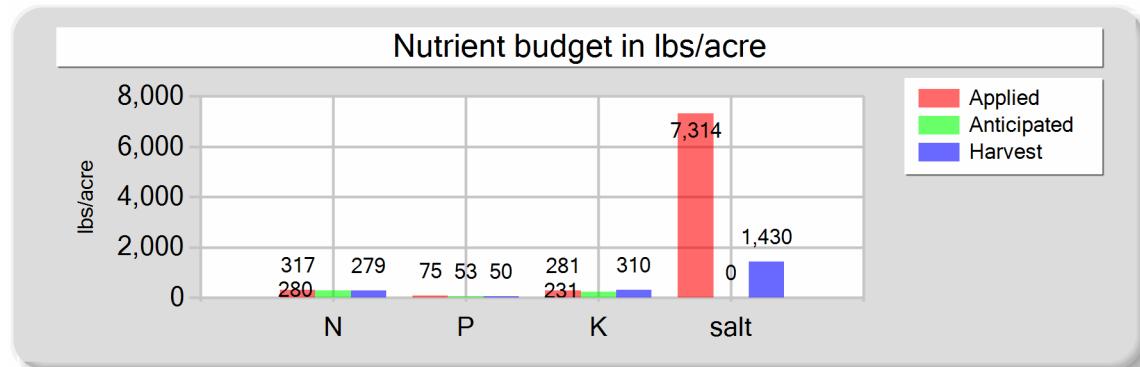
1 harvests

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62 - 04/22/2023: Corn, silage

Field name: 62      Crop: Corn, silage      Plant date: 04/22/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	176.00	63.00	185.00	5,745.44
Process wastewater	125.27	12.41	95.70	1,036.46
Fresh water	2.01	0.00	0.00	532.36
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	317.28	75.41	280.70	7,314.26
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	279.00	49.60	310.00	1,429.97
Nutrient balance	38.28	25.81	-29.30	5,884.30
Applied to removed ratio	1.14	1.52	0.91	5.11

**Fresh water applied**  
114,347,632.92 gallons  
4,211.03 acre-inches  
44.33 inches/acre

**Process wastewater applied**  
3,398,625.93 gallons  
125.16 acre-inches  
1.32 inches/acre

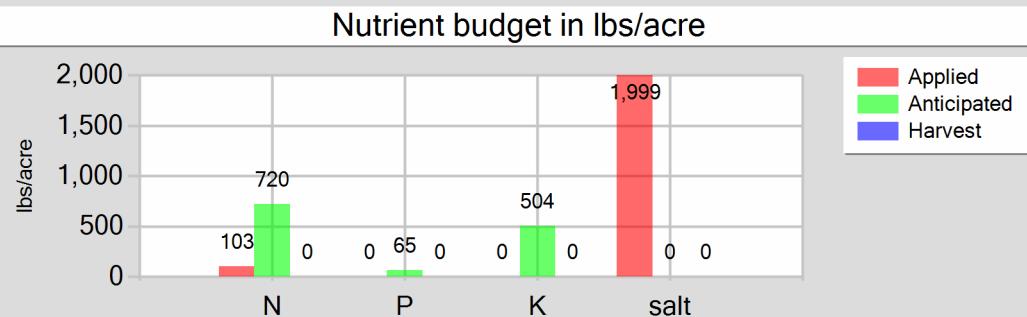
**Total harvests for the crop**  
1 harvests

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7 - 10/17/2019: Alfalfa, hay

Field name: 7      Crop: Alfalfa, hay      Plant date: 10/17/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	89.49	0.00	0.00	1,999.03
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	103.49	0.00	0.00	1,999.03
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	103.49	0.00	0.00	1,999.03
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**  
61,517,410.29 gallons  
2,265.48 acre-inches  
48.20 inches/acre

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

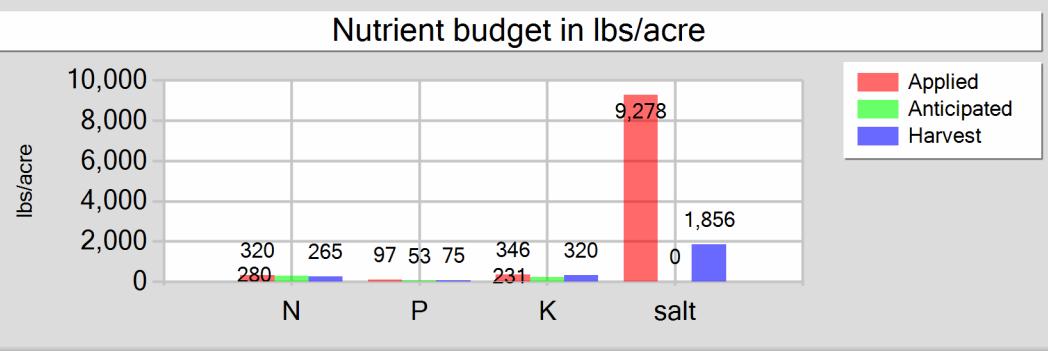
**Total harvests for the crop**  
1 harvests

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9 - 04/19/2023: Corn, silage

Field name: 9      Crop: Corn, silage      Plant date: 04/19/2023



	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	246.40	88.20	259.00	8,043.62
Process wastewater	57.75	9.00	87.17	699.16
Fresh water	2.02	0.00	0.00	535.21
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	320.17	97.20	346.17	9,277.98
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	265.20	74.80	319.60	1,856.40
Nutrient balance	54.97	22.40	26.57	7,421.58
Applied to removed ratio	1.21	1.30	1.08	5.00

**Fresh water applied**  
79,866,080.10 gallons  
2,941.20 acre-inches  
44.56 inches/acre

**Process wastewater applied**  
1,524,982.68 gallons  
56.16 acre-inches  
0.85 inches/acre

**Total harvests for the crop**  
1 harvests

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**NUTRIENT ANALYSES****A. MANURE ANALYSES****22I1496 CFF**Sample and source description: 22I1496 CFFSample date: 09/22/2022 Material type: Corral solidsSource of analysis: Lab analysisMethod of reporting: As-isMoisture: 3.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,600.00	6,300.00	18,500.00	23,400.00	8,500.00	6,400.00	5,700.00	4,000.00		59.60
<b>DL</b>	100.00	100.00	30.00	10.00	5.00	10.00	10.00	0.10		0.01

**22I1513 CFI**Sample and source description: 22I1513 CFISample date: 09/22/2022 Material type: Corral solidsSource of analysis: Lab analysisMethod of reporting: As-isMoisture: 9.0 %

	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 (%)
<b>Value</b>	20,400.00	7,600.00	25,300.00	21,300.00	9,000.00	10,900.00	6,400.00	8,000.00		28.20
<b>DL</b>	100.00	100.00	30.00	10.00	5.00	10.00	10.00	0.10		0.01

**23E1659 CFF**Sample and source description: 23E1659 CFFSample date: 05/18/2023 Material type: Corral solidsSource of analysis: Lab analysisMethod of reporting: As-isMoisture: 12.3 %

	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 (%)
<b>Value</b>	20,200.00	5,500.00	39,400.00							0.00
<b>DL</b>	100.00	100.00	30.00							0.01

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**23E1660 CFI**

Sample and source description: 23E1660 CFI

Sample date: 05/18/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is  
Moisture: 32.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,800.00	4,700.00	19,300.00							0.00
<b>DL</b>	100.00	100.00	30.00							0.01

**23J0236 CFI**

Sample and source description: 23J0236 CFI

Sample date: 10/03/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is  
Moisture: 20.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,400.00	6,900.00	23,200.00							0.00
<b>DL</b>	100.00	100.00	30.00							0.01

**23J0238 CFF**

Sample and source description: 23J0238 CFF

Sample date: 10/03/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is  
Moisture: 21.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,200.00	6,400.00	23,100.00							0.00
<b>DL</b>	100.00	100.00	30.00							0.01

**B. PROCESS WASTEWATER ANALYSES**

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### 22K0761 CFF

Sample and source description: 22K0761 CFF

Sample date: 11/09/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	393.00	173.00	0.00	2.30	100.00	1,410.00								10,100.00	8,000
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

### 22K0762 CFI

Sample and source description: 22K0762 CFI

Sample date: 11/09/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	427.00	212.00	0.00	1.20	66.30	329.00								5,060.00	2,320
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

### 23A0639 CFF

Sample and source description: 23A0639 CFF

Sample date: 01/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	504.00	181.00	0.00	1.50	40.30	862.00								10,800.00	8,530
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

### 23A0640 CFI

Sample and source description: 23A0640 CFI

Sample date: 01/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	720.00	486.00	0.00	2.20	32.20	333.00								9,940.00	5,670
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

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**23E0886 CFI**

Sample and source description: 23E0886 CFI

Sample date: 05/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	211.00	185.00	0.00	0.50	48.00	312.00								3,980.00	1,960
<b>DL</b>	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

**23E0887 CFF**

Sample and source description: 23E0887 CFF

Sample date: 05/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	299.00	187.00	0.00	0.40	51.80	321.00								4,040.00	2,020
<b>DL</b>	0.70	0.20	0.01	0.01	0.02	0.20								0.10	10

**23G2010 CFI**

Sample and source description: 23G2010 CFI

Sample date: 07/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	312.00	209.00	0.00	0.60	60.00	421.00								4,460.00	2,080
<b>DL</b>	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

**23G2016 CFF**

Sample and source description: 23G2016 CFF

Sample date: 07/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	242.00	203.00	0.00	0.60	46.60	393.00								4,310.00	2,120
<b>DL</b>	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

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**23K0779 CFI**

Sample and source description: 23K0779 CFI

Sample date: 11/14/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	284.00	145.00	0.00	0.00	44.60	455.00								3,480.00	2,180
<b>DL</b>	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

**23K0780 CFF**

Sample and source description: 23K0780 CFF

Sample date: 11/14/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	160.00	107.00	0.00	0.00	31.70	358.00								2,690.00	1,780
<b>DL</b>	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

**C. FRESH WATER ANALYSES**

1

**22H1044**

Sample description: 22H1044

Sample date: 08/09/2022 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)
<b>Value</b>		0.00	10.10	36.80	1.50	54.00	113.00	0.00	27.80	18.60	411.00	253
<b>DL</b>		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

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1

23K0771

Sample description: 23K0771Sample date: 11/14/2023 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	11.90	50.40	1.30	63.00	131.00	0.00	42.10	22.20	525.00	315
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

14

22H1470

Sample description: 22H1470Sample date: 08/16/2022 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	2.10	7.80	0.40	63.00	56.80	8.00	51.00	19.20	326.00	227
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

16C

22H1470

Sample description: 22H1470Sample date: 08/16/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	13.20	29.80	0.40	62.00	59.30	5.00	59.00	20.60	434.00	280
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

18A

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18A

22H1470

Sample description: 22H1470

Sample date: 08/16/2022 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	1.00	7.10	0.20	61.00	74.20	13.00	24.50	19.90	296.00	190
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

29

22H1044

Sample description: 22H1044

Sample date: 08/09/2022 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	2.80	11.80	0.40	57.00	76.70	8.00	24.80	19.10	298.00	160
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

30

22H1044

Sample description: 22H1044

Sample date: 08/09/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	5.10	17.30	0.40	48.00	78.60	0.00	26.60	13.30	290.00	180
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

4A

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**4A**

22H1469

Sample description: 22H1469Sample date: 08/16/2022 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	39.70	130.00	3.80	67.00	231.00	0.00	40.00	31.60	921.00	617
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

**4B**

22H1044

Sample description: 22H1044Sample date: 08/09/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	12.80	38.40	2.30	60.00	119.00	0.00	31.90	18.70	453.00	290
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

**5B**

22H1469

Sample description: 22H1469Sample date: 08/16/2022 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	4.70	17.90	0.90	50.00	75.60	0.00	28.60	17.60	311.00	203
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

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5B

23G2013

Sample description: 23G2013

Sample date: 07/27/2023 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	6.30	23.80	1.00	50.00	81.30	0.00	37.60	20.30	350.00	233
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

60

22H1470

Sample description: 22H1470

Sample date: 08/16/2022 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	0.40	3.50	0.00	79.00	65.10	20.00	27.10	41.10	375.00	230
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

61B

22H1470

Sample description: 22H1470

Sample date: 08/16/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	18.10	33.50	0.80	100.00	59.60	0.00	83.00	51.40	623.00	390
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

7

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7

22H1044

Sample description: 22H1044Sample date: 08/09/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	5.70	22.10	0.70	55.00	96.80	0.00	16.90	22.00	335.00	197
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

23G2013

Sample description: 23G2013Sample date: 07/27/2023 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	16.00	42.60	1.40	54.00	108.00	0.00	28.70	20.00	452.00	310
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

8

22H1044

Sample description: 22H1044Sample date: 08/09/2022 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	33.70	154.00	6.10	57.00	261.00	0.00	57.70	31.40	957.00	633
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

Canal

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**Canal****22G1354**Sample description: 22G1354Sample date: 07/18/2022 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								80.00	46
DL		0.20	0.01								1.00	10

**23E1020**Sample description: 23E1020Sample date: 05/10/2023 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	0.20								70.00	53
DL		0.20	0.01								1.00	10

**D. SOIL ANALYSES****1****23I1434**Sample and source description: 23I1434Sample date: 09/21/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value				27.00			
DL				1.10			

**12**

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12

23H2347

Sample and source description: 23H2347

Sample date: 08/29/2023 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			33.00				
DL			1.10				

14

23J1111

Sample and source description: 23J1111

Sample date: 10/16/2023 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			48.00				
DL			1.10				

16

23H2347

Sample and source description: 23H2347

Sample date: 08/29/2023 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			43.00				
DL			1.10				

2

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2

23H2348

Sample and source description: 23H2348

Sample date: 08/29/2023 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			13.00				
DL			1.10				

26

23K0591

Sample and source description: 23K0591

Sample date: 11/10/2023 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			65.00				
DL			1.10				

27

23I1434

Sample and source description: 23I1434

Sample date: 09/21/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			48.00				
DL			1.10				

40

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40

23J0376

Sample and source description: 23J0376

Sample date: 10/04/2023 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			87.00				
DL			1.10				

60

23J0376

Sample and source description: 23J0376

Sample date: 10/04/2023 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			46.00				
DL			1.10				

62

23H2347

Sample and source description: 23H2347

Sample date: 08/29/2023 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			21.00				
DL			1.10				

8

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8

23H2348

Sample and source description: 23H2348

Sample date: 08/29/2023 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			29.00				
DL			1.10				

9

23H2347

Sample and source description: 23H2347

Sample date: 08/29/2023 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			60.00				
DL			1.10				

**E. PLANT TISSUE ANALYSES**

1 - 11/03/2022: Wheat, silage, soft dough

23E0888

Sample and source description: 23E0888

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	900.00	6,000.00		7.90
DL	0.10	0.10	0.10		0.01

1 - 06/15/2023: Corn, silage

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1 - 06/15/2023: Corn, silage

23I1374

Sample and source description: 23I1374

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,500.00	800.00	5,200.00		5.50
<b>DL</b>	0.10	0.10	0.10		0.01

10 - 11/10/2022: Wheat, silage, soft dough

23E1658

Sample and source description: 23E1658

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,400.00	800.00	4,800.00		4.10
<b>DL</b>	0.10	0.10	0.10		0.01

10 - 06/19/2023: Corn, silage

23J0994

Sample and source description: 23J0994

Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,100.00	900.00	4,000.00		2.70
<b>DL</b>	0.10	0.10	0.10		0.01

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11 - 11/10/2022: Wheat, silage, soft dough

23E1658

Sample and source description: 23E1658

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 73.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,200.00	800.00	5,500.00		11.20
<b>DL</b>	0.10	0.10	0.10		0.01

11 - 06/24/2023: Corn, silage

23J0994

Sample and source description: 23J0994

Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,900.00	600.00	4,600.00		6.50
<b>DL</b>	0.10	0.10	0.10		0.01

12 - 04/20/2023: Corn, silage

23H1475

Sample and source description: 23H1475

Sample date: 08/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,300.00	1,000.00	4,900.00		6.70
<b>DL</b>	0.10	0.10	0.10		0.01

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14 - 11/21/2022: Wheat, silage, soft dough

23E1658

Sample and source description: 23E1658

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,200.00	700.00	5,300.00		9.50
<b>DL</b>	0.10	0.10	0.10		0.01

14 - 06/29/2023: Corn, silage

23J0235

Sample and source description: 23J0235

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,000.00	700.00	3,200.00		4.80
<b>DL</b>	0.10	0.10	0.10		0.01

17 - 04/17/2023: Corn, silage

23H1475

Sample and source description: 23H1475

Sample date: 08/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,800.00	1,100.00	4,000.00		6.10
<b>DL</b>	0.10	0.10	0.10		0.01

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18 - 11/15/2022: Wheat, silage, soft dough

23E1658

Sample and source description: 23E1658

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,000.00	800.00	4,900.00		11.40
<b>DL</b>	0.10	0.10	0.10		0.01

18 - 06/21/2023: Corn, silage

23J0994

Sample and source description: 23J0994

Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,400.00	800.00	3,900.00		5.50
<b>DL</b>	0.10	0.10	0.10		0.01

19 - 11/15/2022: Wheat, silage, soft dough

23E0889

Sample and source description: 23E0889

Sample date: 05/05/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	5,300.00	1,100.00	5,400.00		11.70
<b>DL</b>	0.10	0.10	0.10		0.01

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19 - 06/08/2023: Corn, silage

23I1373

Sample and source description: 23I1373

Sample date: 09/14/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,500.00	800.00	3,700.00		4.40
<b>DL</b>	0.10	0.10	0.10		0.01

2 - 04/12/2023: Corn, silage

23H1476

Sample and source description: 23H1476

Sample date: 08/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,500.00	700.00	3,400.00		7.20
<b>DL</b>	0.10	0.10	0.10		0.01

30 - 04/17/2023: Corn, silage

23H1476

Sample and source description: 23H1476

Sample date: 08/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,600.00	800.00	3,800.00		6.10
<b>DL</b>	0.10	0.10	0.10		0.01

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4 - 11/03/2022: Wheat, silage, soft dough

23E0888

Sample and source description: 23E0888

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,000.00	800.00	4,900.00		14.50
<b>DL</b>	0.10	0.10	0.10		0.01

4 - 06/15/2023: Corn, silage

23I1374

Sample and source description: 23I1374

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,400.00	700.00	4,000.00		5.30
<b>DL</b>	0.10	0.10	0.10		0.01

40 - 11/16/2022: Wheat, silage, soft dough

23E0889

Sample and source description: 23E0889

Sample date: 05/05/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	5,400.00	1,100.00	6,500.00		10.60
<b>DL</b>	0.10	0.10	0.10		0.01

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40 - 06/12/2023: Corn, silage

23J0235

Sample and source description: 23J0235

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,800.00	800.00	4,400.00		5.90
<b>DL</b>	0.10	0.10	0.10		0.01

5 - 06/13/2023: Corn, silage

23I1374

Sample and source description: 23I1374

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,000.00	800.00	5,000.00		6.10
<b>DL</b>	0.10	0.10	0.10		0.01

6 - 11/07/2022: Wheat, silage, soft dough

23E1661

Sample and source description: 23E1661

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,200.00	900.00	6,400.00		10.00
<b>DL</b>	0.10	0.10	0.10		0.01

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

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

6 - 06/16/2023: Corn, silage

23I1374

Sample and source description: 23I1374

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,300.00	1,000.00	4,600.00		6.60
<b>DL</b>	0.10	0.10	0.10		0.01

60 - 10/31/2022: Wheat, silage, soft dough

23E0889

Sample and source description: 23E0889

Sample date: 05/05/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	5,000.00	900.00	4,600.00		11.80
<b>DL</b>	0.10	0.10	0.10		0.01

60 - 06/29/2023: Corn, silage

23J0235

Sample and source description: 23J0235

Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,100.00	600.00	5,500.00		6.90
<b>DL</b>	0.10	0.10	0.10		0.01

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

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

62 - 04/22/2023: Corn, silage

23H1475

Sample and source description: 23H1475

Sample date: 08/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	4,500.00	800.00	5,000.00		6.20
<b>DL</b>	0.10	0.10	0.10		0.01

9 - 04/19/2023: Corn, silage

23H1475

Sample and source description: 23H1475

Sample date: 08/11/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	3,900.00	1,100.00	4,700.00		7.80
<b>DL</b>	0.10	0.10	0.10		0.01

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

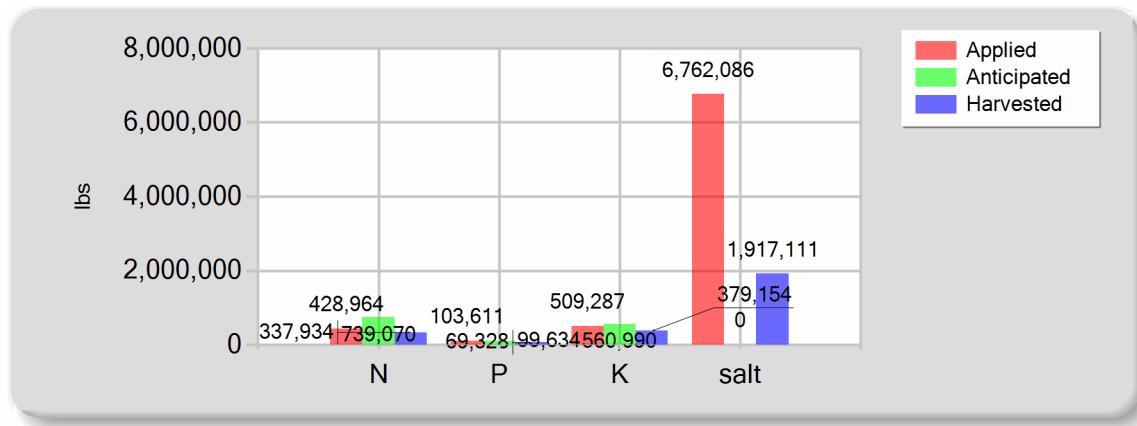
*No subsurface (tile) drainage analyses entered.*

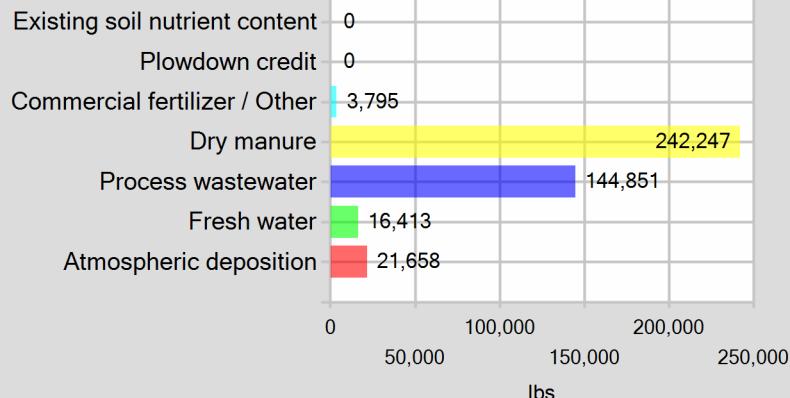
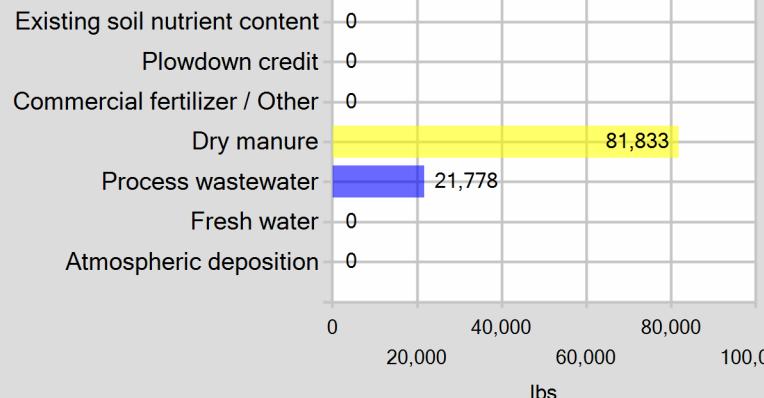
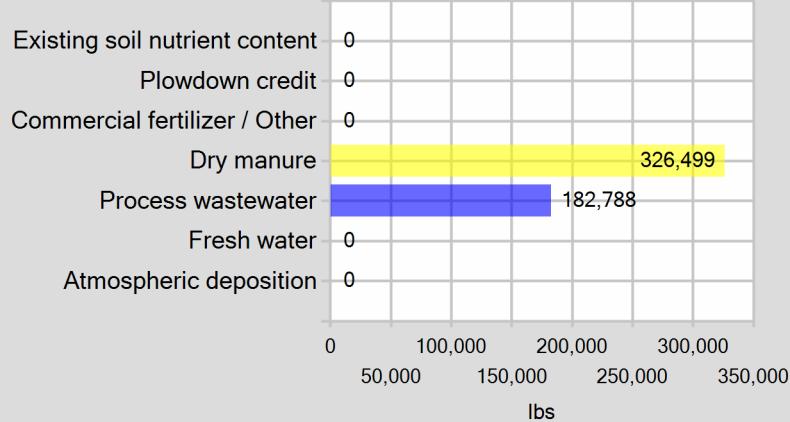
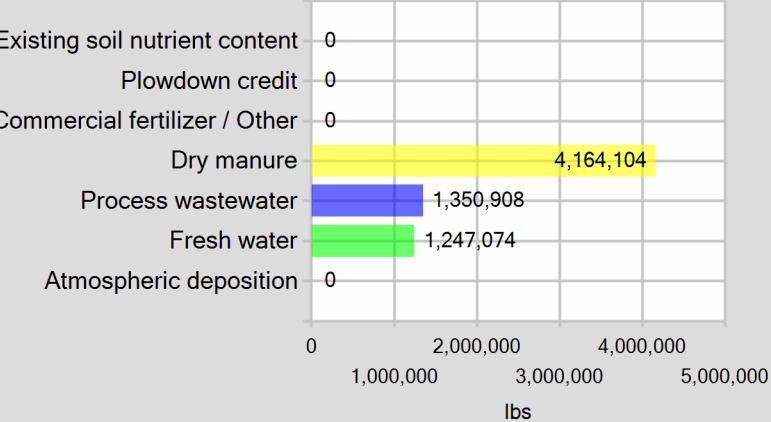
**Annual Report - General Order No. R5-2007-0035**

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	3,795.00	0.00	0.00	0.00
Dry manure	242,246.80	81,832.80	326,498.60	4,164,103.52
Process wastewater	144,851.12	21,777.91	182,788.45	1,350,908.24
Fresh water	16,413.13	0.00	0.00	1,247,073.94
Atmospheric deposition	21,658.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>428,964.04</b>	<b>103,610.71</b>	<b>509,287.05</b>	<b>6,762,085.70</b>
Anticipated crop nutrient removal	739,070.00	99,633.80	560,990.00	0.00
Actual crop nutrient removal	337,934.80	69,328.20	379,154.20	1,917,110.81
<b>Nutrient balance</b>	<b>91,030.24</b>	<b>34,282.51</b>	<b>130,132.85</b>	<b>4,844,974.90</b>
Applied to removed ratio	1.27	1.49	1.34	3.53

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

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

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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

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

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

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

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

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

**ADDITIONAL NOTES**

**A. NOTES**

1. As stated in the Annual Report, and required by the General Order, the dairies onsite Nutrient Management Plan has been updated and completed by a certified agronomist. The dairy conducts its nutrient budgeting based on this certified plan, and only uses the Annual Report as a complimentary guide. Submission of the nutrient budget in this annual report is done solely to satisfy the requirements of the General Orders monitoring and reporting section.
2. All graphs in the annual report display an amount of applied and removed salt. There are many ways inputs and exports of salt can accounted for. The Merced County website does not account for all of them. The graphs convey a partial / incomplete portrayal of salts (depending on how salts are defined, measured, and evaluated).
3. The General Order requires the submission of all land applications in the "calendar year" of the reporting period. This has been submitted. However, land applications that occur post harvest of the Fall forage of the previous calendar year are intended for the use of the Spring forage of the following calendar year (reporting period) as crop cycles do not work on calendar year dates. When such land applications occur in the previous calendar year, previous years analytical data representing the applications have been inputted to represent nutrients intended for the reporting periods Spring crop. As such, any land application that occurs post harvest of the Fall forage in the reporting period that is intended for the Spring forage of the following calendar year will not be inputted until the following years Annual Report so that the Merced County reporting program software does not mistakenly apply these applications to the incorrect crops as there is no way to accurately differentiate and display this situation in the Annual Report software .
4. All wastewater land applications were summarized by quarter using the corresponding wastewater quarterly sample to represent nutrient amounts applied. One application date per quarter per crop has been selected to represent all applications of wastewater for that crop during that quarter. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper quarterly sample has been selected to represent nutrients applied during that specific quarter. Day specific records are kept on site and available upon request.

All fresh water land applications during the report period have been summarized into one application per source per crop. One application date has been selected to represent the reporting period for that crop. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper source sample has been selected to represent nutrients applied during the reporting period. Day specific records are kept on site and available upon request.

5. The Annual Report program lists the possibility of the report being incomplete . The report is complete. There were no samples of alfalfa hay or pistachios taken during the reporting period as no waste was applied to the crop.

6. All crop land and land application events of Curti Family Farms are controlled by Curti Family Inc., whom are the same owners as Curti Family Farms. Please refer to Curti Family Inc.'s annual report for all crops, application events, and any other nutrient management planning for both facilities. All of Curti Family Farms nutrient analysis are also included in Curti Family, Inc.'s annual report. As Curti Family Farms' nutrients are used for applications to cropland the corresponding analysis is selected in Curti Family Inc.'s annual report in order to accurately reflect the activity.

7. Due to high volumes of available canal water, most, if not all wells remained idle during the growing season. Therefore little to no well samples exist. They will be sampled again when operable.

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

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

**ANNUAL REPORT VALIDATION INFORMATION**

**A. VALIDATION ERRORS**

The following sections contain validation errors and should be reviewed before submitting the Annual Report :

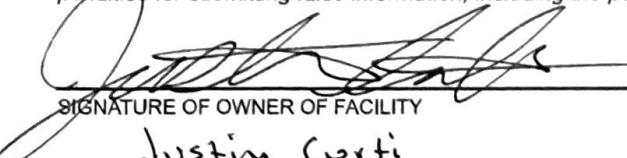
1. Harvest Events

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

CERTIFICATION

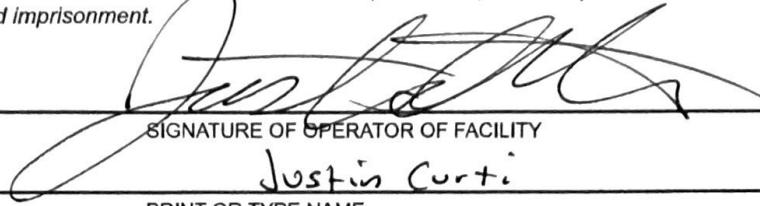
A. OWNER AND/OR OPERATOR CERTIFICATION

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

  
SIGNATURE OF OWNER OF FACILITY

Justin Curti  
PRINT OR TYPE NAME

12-1-23  
DATE

  
SIGNATURE OF OPERATOR OF FACILITY

Justin Curti  
PRINT OR TYPE NAME

12-1-23  
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.



Sola Consulting Inc  
PO Box 190  
Tipton, CA 93272

Account# 00-0020655  
Account Manager: Ben Nydam  
Submitted By: Vince Sola

Received: 05/11/2023 8:59  
Reported: 06/02/2023 13:29

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E1020-01	Tulare Canal	Ag Water	Moises Barajas		05/10/2023 12:16

Default Cooler      Temperature on Receipt °C: -0.6  
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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## Sample Results

**Sample: Tulare Canal  
23E1020-01 (Water)**

Sampled: 5/10/2023 12:16

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	<b>0.07</b>	mmhos/cm	0.01	1		05/11/23 14:09	SM 2510 B		BEE0443
Electrical Conductivity umhos	<b>70.0</b>	umhos/cm	10.0	1		05/11/23 14:09	SM 2510 B		BEE0443
Nitrate Nitrogen as NO3N	<b>0.2</b>	mg/L	0.1	1	10	05/11/23 17:09	EPA 300.0		BEE0425
pH	<b>8.1</b>	units	1.0	1		05/11/23 14:09	SM 4500-H+	H	BEE0443
Total Filterable Solids (TDS)	<b>52.9</b>	mg/L	10.0	1		06/02/23 12:10	SM 2540 C		BEE0466
Temperature	<b>25.0</b>	°C	0.0	1		05/11/23 14:09	SM 2510 B		BEE0443

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0425</b>									
<b>Blank (BEE0425-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/11/2023				
<b>Blank (BEE0425-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/11/2023				
<b>Blank (BEE0425-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 5/11/2023 Analyzed: 5/12/2023				
<b>LCS (BEE0425-BS1)</b>									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000	108	90-110			
<b>LCS (BEE0425-BS2)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	103	90-110			
<b>Duplicate (BEE0425-DUP1)</b>									
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L	0.6			1.74	10	
<b>Duplicate (BEE0425-DUP2)</b>									
Nitrate Nitrogen as NO3N	27.9	0.1	mg/L	27.9			0.222	10	
<b>Matrix Spike (BEE0425-MS1)</b>									
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.6	101	90-110		
<b>Matrix Spike (BEE0425-MS2)</b>									
Nitrate Nitrogen as NO3N	32.6	0.1	mg/L	5.000	27.9	92.5	90-110		
<b>Reference (BEE0425-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00	100	90-110			
<b>Reference (BEE0425-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0443</b>									
<b>Blank (BEE0443-BLK1)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 5.5 1.0 units									
Temperature 25.0 0.0 °C									
Electrical Conductivity umhos ND 10.0 umhos/cm									
<b>Blank (BEE0443-BLK2)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 5.6 1.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Temperature 25.0 0.0 °C									
<b>Blank (BEE0443-BLK3)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 5.7 1.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Temperature 25.0 0.0 °C									
<b>Duplicate (BEE0443-DUP1)</b>									
Source: 23E0842-01 Prepared & Analyzed: 5/11/2023									
pH 4.3 1.0 units 4.3 0.00 10									
Electrical Conductivity 1.70 0.01 mmhos/cm 1.70 0.0588 10									
Electrical Conductivity umhos 1700 10.0 umhos/cm 1700 0.0588 10									
<b>Duplicate (BEE0443-DUP2)</b>									
Source: 23E1024-01 Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 0.07 0.01 mmhos/cm 0.07 0.578 10									
pH 8.1 1.0 units 8.2 0.737 10									
Electrical Conductivity umhos 69.0 10.0 umhos/cm 69.4 0.578 10									
<b>Reference (BEE0443-SRM2)</b>									
Prepared & Analyzed: 5/11/2023									
pH 7.8 units 7.790 100 .7163-101.28									
<b>Reference (BEE0443-SRM3)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 1060 umhos/cm 1000 106 90-110									
Electrical Conductivity umhos 1060 umhos/cm 1000 106 90-110									
<b>Reference (BEE0443-SRM4)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 1060 umhos/cm 1000 106 90-110									
Electrical Conductivity umhos 1060 umhos/cm 1000 106 90-110									
<b>Reference (BEE0443-SRM5)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 1070 umhos/cm 1000 107 90-110									
Electrical Conductivity umhos 1070 umhos/cm 1000 107 90-110									
<b>Reference (BEE0443-SRM6)</b>									
Prepared & Analyzed: 5/11/2023									

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0443 (Continued)</b>									
<b>Reference (BEE0443-SRM6)</b>									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEE0443-SRM7)</b>									
pH	4.0		units	4.000	99.8	97.5-102.5			
<b>Reference (BEE0443-SRM8)</b>									
pH	4.0		units	4.000	99.8	97.5-102.5			

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0466</b>									
<b>Blank (BEE0466-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023				
<b>LCS (BEE0466-BS1)</b>									
Total Filterable Solids (TDS)	21.2	10.0	mg/L	2000	Prepared: 5/11/2023 Analyzed: 6/2/2023	1.06	0-200		
<b>Duplicate (BEE0466-DUP1)</b>									
Total Filterable Solids (TDS)	1260	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023	1240		1.60	5
<b>Duplicate (BEE0466-DUP2)</b>									
Total Filterable Solids (TDS)	4850	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023	4750		2.08	5
<b>Reference (BEE0466-SRM1)</b>									
Total Filterable Solids (TDS)	310		mg/L	325.0	Prepared: 5/11/2023 Analyzed: 6/2/2023	95.4	90-110		

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05/11/23 08:59

23E1020

JG

**WATER WORK REQUEST**

Acct No. (or Login Not Billing)	20655	Cons	8
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Purchase Order No. \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client **Sola Consulting**  
 Canal **Tulare Irrigation District**  
 Requested by **Vince Sola**

Copy to	Email	Acct #
Vince Sola	solaconsulting@gmail.com	N/A
Curti Family Farms	curtifamilyoffice@gmail.com	15771
Curti Family Inc	curtifamilyoffice@gmail.com	13258
Curtimade	bencurtifarms@yahoo.com	15775
Mancebo #1	onepasstillage@yahoo.com	19286

Date sampled **5-10-23**

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

## DESCRIPTION OF SAMPLES

1. **Tulare Canal** Sampled From: \_\_\_\_\_
2. \_\_\_\_\_ Sampled From: \_\_\_\_\_

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>Maria Brant</i>	DLI	5-10-23 12:16PM	2020 5-10-23
Second				
Third				
Fourth	<i>Jasmine L</i>	DLI	5/11/23 8:59	

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

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

## Invoicing Information:

Client	Acct #	Invoicing	Price List
Curti Family Farms	15771	\$18.00	Price List
Curti Family Inc	13258	\$18.00	Price List
Curtimade	15775	\$18.00	Ortly
Mancebo Holsteins #1	19286	\$18.00	Ortly
Mancebo Holsteins #2	19287	\$18.00	Ortly
Rio Blanco Dairy	13323	\$18.00	Ortly
S&S Dairy	15850	\$18.00	Ortly

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

IR Thermometer SN: 200560723  
 Correction Factor: 0°C  
 Calibration Due: 6/30/2023  
 Location: Laboratory

cit update 2020

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input checked="" type="checkbox"/> Hanford Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/> Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory										
<b>Type of Container(s) Received</b>	<b>Sample Number</b> 1    2    3    4    5    6    7    8    9    10									
	<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>									
<b>Plastics</b>  100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) 250 mL unpreserved (White) Plastic 250 mL HNO <sub>3</sub> (Red) Plastic * pH Value 250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic * pH Value 500 mL unpreserved (White) Plastic 1 L unpreserved (White) Plastic 1 L unpreserved (BOD) (Purple) Plastic										
<b>Special</b>  500mL unpreserved (White) Glass PO4-P Kit Other:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
<b>Plastics</b>  100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) 250 mL unpreserved (White) Plastic 250 mL HNO <sub>3</sub> (Red) Plastic 250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic 500 mL HNO <sub>3</sub> (Red) 1 L unpreserved (White) Plastic 1 L unpreserved (BOD) (Purple) Plastic 1 L HNO <sub>3</sub> (Red)										
<b>VOA Vials</b>  40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531) 40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547) 40mL AG VOA unpreserved (White) (Set of 3) 40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3) 40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3) 40 mL VOA, HCl (Blue) (Set of 3) 40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
<b>Glass</b>  250 mL AG unpreserved (White) 250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow) 250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) 250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA 500 mL glass unpreserved (White) 500 mL AG HCl (Blue) 1 L AG unpreserved (White) 1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow) 1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) 1 L AG HCl (Blue)										
<b>Special</b>  Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub> Cyanide - 500 mL NaOH Asbestos - 1L P wrapped in foil (Set of 2) Sulfide - 1 L AG or P NaOH + ZnAc Chlorite/Bromate - 250 mL AG with EDA HAA5 - 250mL AG Ammonium Chlorite DO KIT Other: Other:										



05/11/23 08:59

23E1020



Curti Family Inc  
3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G2013-01	Well #7 (Discharge)	Ag Water	M Mora		07/27/2023 9:10
23G2013-02	Well #5B (Discharge)	Ag Water	M Mora		07/27/2023 9:00

Default Cooler      Temperature on Receipt °C: 16.4  
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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Ranch: 3235 Ave 199 B Tulare

Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

### Sample Results

**Sample: Well #7 (Discharge)  
23G2013-01 (Water)**

Sampled: 7/27/2023 9:10

Sampled By: M Mora

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>108</b>	mg/L	10.0	1		07/31/23 11:33	SM 2320 B		BEG1124
Calcium	<b>42.6</b>	mg/L	0.1	1		08/02/23 11:00	EPA 200.7		BEH0008
Chloride	<b>20.0</b>	mg/L	0.2	1	250	07/28/23 16:33	EPA 300.0		BEG1101
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		07/31/23 11:33	SM 2320 B		BEG1124
Electrical Conductivity	<b>0.45</b>	mmhos/cm	0.01	1		07/31/23 11:33	SM 2510 B		BEG1124
Electrical Conductivity umhos	<b>452</b>	umhos/cm	10.0	1		07/31/23 11:33	SM 2510 B		BEG1124
Bicarbonate as CaCO <sub>3</sub>	<b>108</b>	mg/L	5.00	1		07/31/23 11:33	SM 2320 B		BEG1124
Potassium	<b>0.556</b>	mg/L	0.500	1		08/02/23 11:00	EPA 200.7		BEH0008
Magnesium	<b>1.4</b>	mg/L	0.1	1		08/02/23 11:00	EPA 200.7		BEH0008
Sodium	<b>54</b>	mg/L	1	1		08/02/23 11:00	EPA 200.7		BEH0008
Ammonia (as N)	ND	mg/L	0.00	1		07/27/23 09:10	Field		BEG1062
Nitrate Nitrogen as NO <sub>3</sub> N	<b>16.0</b>	mg/L	0.1	1	10	07/28/23 16:33	EPA 300.0		BEG1101
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		07/31/23 11:33	SM 2320 B		BEG1124
pH	<b>7.6</b>	units	1.0	1		07/31/23 11:33	SM 4500-H+	H	BEG1124
Sulfate (SO <sub>4</sub> )	<b>28.7</b>	mg/L	0.5	1	250	07/28/23 16:33	EPA 300.0		BEG1101
Total Filterable Solids (TDS)	<b>310</b>	mg/L	10.0	1		08/03/23 13:15	SM 2540 C		BEG1153

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3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

### Sample Results

(Continued)

**Sample: Well #5B (Discharge)  
23G2013-02 (Water)**

Sampled: 7/27/2023 9:00

Sampled By: M Mora

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>81.3</b>	mg/L	10.0	1		07/31/23 11:38	SM 2320 B		BEG1124
Calcium	<b>23.8</b>	mg/L	0.1	1		08/02/23 11:02	EPA 200.7		BEH0008
Chloride	<b>20.3</b>	mg/L	0.2	1	250	07/28/23 16:52	EPA 300.0		BEG1101
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		07/31/23 11:38	SM 2320 B		BEG1124
Electrical Conductivity	<b>0.35</b>	mmhos/cm	0.01	1		07/31/23 11:38	SM 2510 B		BEG1124
Electrical Conductivity umhos	<b>350</b>	umhos/cm	10.0	1		07/31/23 11:38	SM 2510 B		BEG1124
Bicarbonate as CaCO <sub>3</sub>	<b>81.3</b>	mg/L	5.00	1		07/31/23 11:38	SM 2320 B		BEG1124
Potassium	<b>0.776</b>	mg/L	0.500	1		08/02/23 11:02	EPA 200.7		BEH0008
Magnesium	<b>1.0</b>	mg/L	0.1	1		08/02/23 11:02	EPA 200.7		BEH0008
Sodium	<b>50</b>	mg/L	1	1		08/02/23 11:02	EPA 200.7		BEH0008
Ammonia (as N)	ND	mg/L	0.00	1		07/27/23 09:00	Field		BEG1062
Nitrate Nitrogen as NO <sub>3</sub> N	<b>6.3</b>	mg/L	0.1	1	10	07/28/23 16:52	EPA 300.0		BEG1101
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		07/31/23 11:38	SM 2320 B		BEG1124
pH	<b>7.8</b>	units	1.0	1		07/31/23 11:38	SM 4500-H+	H	BEG1124
Sulfate (SO <sub>4</sub> )	<b>37.6</b>	mg/L	0.5	1	250	07/28/23 16:52	EPA 300.0		BEG1101
Total Filterable Solids (TDS)	<b>233</b>	mg/L	10.0	1		08/03/23 13:15	SM 2540 C		BEG1153

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Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG1101</b>									
<b>Blank (BEG1101-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 7/28/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEG1101-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 7/28/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEG1101-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 7/29/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>LCS (BEG1101-BS1)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 7/28/2023									
Nitrate Nitrogen as NO3N 5.1 0.1 mg/L									
Sulfate (SO4) 4.8 0.5 mg/L									
<b>LCS (BEG1101-BS2)</b>									
Chloride 5.1 0.2 mg/L Prepared & Analyzed: 7/29/2023									
Nitrate Nitrogen as NO3N 5.2 0.1 mg/L									
Sulfate (SO4) 4.8 0.5 mg/L									
<b>Duplicate (BEG1101-DUP1)</b>									
Chloride 20.2 0.2 mg/L Prepared & Analyzed: 7/28/2023									
Nitrate Nitrogen as NO3N 6.3 0.1 mg/L									
Sulfate (SO4) 37.5 0.5 mg/L									
<b>Duplicate (BEG1101-DUP2)</b>									
Chloride 18.6 0.2 mg/L Prepared & Analyzed: 7/29/2023									
Nitrate Nitrogen as NO3N 0.03 0.1 mg/L									
Sulfate (SO4) 7.3 0.5 mg/L									
<b>Matrix Spike (BEG1101-MS1)</b>									
Chloride 24.8 0.2 mg/L Prepared & Analyzed: 7/28/2023									
Nitrate Nitrogen as NO3N 11.3 0.1 mg/L									
Sulfate (SO4) 42.0 0.5 mg/L									
<b>Matrix Spike (BEG1101-MS2)</b>									
Chloride 23.3 0.2 mg/L Prepared & Analyzed: 7/29/2023									
Nitrate Nitrogen as NO3N 5.3 0.1 mg/L									
Sulfate (SO4) 12.6 0.5 mg/L									

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Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG1101 (Continued)</b>									
<b>Reference (BEG1101-SRM1)</b>									
Prepared & Analyzed: 7/28/2023									
Chloride 12.7 mg/L 12.50 102 90-110									
Nitrate Nitrogen as NO3N 10.1 mg/L 10.00 101 90-110									
Sulfate (SO4) 10.0 mg/L 10.00 99.7 90-110									
<b>Reference (BEG1101-SRM2)</b>									
Prepared & Analyzed: 7/28/2023									
Chloride 12.8 mg/L 12.50 102 90-110									
Nitrate Nitrogen as NO3N 10.2 mg/L 10.00 102 90-110									
Sulfate (SO4) 10.0 mg/L 10.00 100 90-110									
<b>Reference (BEG1101-SRM3)</b>									
Prepared & Analyzed: 7/29/2023									
Chloride 12.9 mg/L 12.50 103 90-110									
Nitrate Nitrogen as NO3N 10.2 mg/L 10.00 102 90-110									
Sulfate (SO4) 10.1 mg/L 10.00 101 90-110									

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Received: 07/28/2023 8:00  
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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG1124</b>									
<b>Blank (BEG1124-BLK1)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
pH	5.2	1.0	units						
Alkalinity as CaCO3	ND	10.0	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG1124-BLK2)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Alkalinity as CaCO3	ND	10.0	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
pH	5.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO3	ND	1.00	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEG1124-BLK3)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Alkalinity as CaCO3	ND	10.0	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.5	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Duplicate (BEG1124-DUP1)</b>									
<b>Source: 23G1878-01</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Alkalinity as CaCO3	688	10.0	mg/L		667		3.10	10	
pH	8.3	1.0	units		8.2		0.485	10	
Carbonate as CaCO3	ND	1	mg/L		ND			10	
Electrical Conductivity	1.30	0.01	mmhos/cm		1.30		0.407	10	
Hydroxide as CaCO3	ND	1.00	mg/L		ND			10	
Electrical Conductivity umhos	1300	10.0	umhos/cm		1300		0.407	10	
<b>Duplicate (BEG1124-DUP2)</b>									
<b>Source: 23G2013-01</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Alkalinity as CaCO3	106	10.0	mg/L		108		1.38	10	
Electrical Conductivity	0.44	0.01	mmhos/cm		0.45		2.01	10	
Carbonate as CaCO3	ND	1	mg/L		ND			10	
Hydroxide as CaCO3	ND	1.00	mg/L		ND			10	
pH	7.9	1.0	units		7.6		4.00	10	
Electrical Conductivity umhos	442	10.0	umhos/cm		452		2.01	10	
<b>Reference (BEG1124-SRM1)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									

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Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG1124 (Continued)</b>									
<b>Reference (BEG1124-SRM1)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Electrical Conductivity 528 umhos/cm 538.0 98.2 90-110									
Alkalinity as CaCO <sub>3</sub> 39.7 mg/L 40.60 97.8 90-110									
<b>Reference (BEG1124-SRM2)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Alkalinity as CaCO <sub>3</sub> 40.2 mg/L 40.60 99.0 90-110									
Electrical Conductivity 526 umhos/cm 538.0 97.7 90-110									
<b>Reference (BEG1124-SRM3)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
Alkalinity as CaCO <sub>3</sub> 40.3 mg/L 40.60 99.2 90-110									
Electrical Conductivity 518 umhos/cm 538.0 96.3 90-110									
<b>Reference (BEG1124-SRM4)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
pH	4.0		units	4.000		99.5	97.5-102.5		
<b>Reference (BEG1124-SRM5)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEG1124-SRM6)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
pH	4.0		units	4.000		99.5	97.5-102.5		
<b>Reference (BEG1124-SRM7)</b>									
Prepared: 7/28/2023 Analyzed: 7/31/2023									
pH	5.8		units	5.820		100	28178-101.7:		

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Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEG1153</b>									
<b>Blank (BEG1153-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/31/2023 Analyzed: 8/3/2023				
<b>LCS (BEG1153-BS1)</b>									
Total Filterable Solids (TDS)	15.0	10.0	mg/L	2000	Prepared: 7/31/2023 Analyzed: 8/3/2023	0.750	0-200		
<b>Duplicate (BEG1153-DUP1)</b>									
Total Filterable Solids (TDS)	3800	10.0	mg/L		Prepared: 7/31/2023 Analyzed: 8/3/2023	3820		0.656	10
<b>Reference (BEG1153-SRM1)</b>									
Total Filterable Solids (TDS)	310		mg/L	325.0	Prepared: 7/31/2023 Analyzed: 8/3/2023	95.4	90-110		

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Curti Family Inc  
3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0008</b>									
<b>Blank (BEH0008-BLK1)</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEH0008-BLK2)</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEH0008-BS1)</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Potassium	35.8	0.500	mg/L	35.71	100	90-110			
Sodium	36	1	mg/L	35.71	101	90-110			
Calcium	36.9	0.1	mg/L	35.71	103	90-110			
Magnesium	37.1	0.1	mg/L	35.71	104	90-110			
<b>LCS (BEH0008-BS2)</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Potassium	37.3	0.500	mg/L	35.71	104	90-110			
Sodium	38	1	mg/L	35.71	107	90-110			
Calcium	38.2	0.1	mg/L	35.71	107	90-110			
Magnesium	38.5	0.1	mg/L	35.71	108	90-110			
<b>Duplicate (BEH0008-DUP1)</b>									
<b>Source: 23G2013-01</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Sodium	54	1	mg/L	54	0.631	15			
Potassium	0.527	0.500	mg/L	0.556	5.37	15			
Calcium	43.4	0.1	mg/L	42.6	1.82	15			
Magnesium	1.4	0.1	mg/L	1.4	0.796	15			
<b>Matrix Spike (BEH0008-MS1)</b>									
<b>Source: 23G2013-01</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Potassium	37.4	0.500	mg/L	35.71	0.556	103	90-110		
Calcium	81.1	0.1	mg/L	35.71	42.6	108	90-110		
Sodium	92	1	mg/L	35.71	54	108	90-110		
Magnesium	39.6	0.1	mg/L	35.71	1.4	107	90-110		
<b>Matrix Spike (BEH0008-MS2)</b>									
<b>Source: 23G2255-01</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Sodium	55	1	mg/L	35.71	17	108	90-110		
Potassium	39.3	0.500	mg/L	35.71	1.68	105	90-110		
Calcium	51.1	0.1	mg/L	35.71	11.2	112	90-110		
Magnesium	44.8	0.1	mg/L	35.71	4.8	112	90-110		
<b>Reference (BEH0008-SRM2)</b>									
Prepared: 8/1/2023 Analyzed: 8/2/2023									
Potassium	20.0		mg/L	21.90	91.4	90-110			

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Curti Family Inc  
3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 07/28/2023 8:00  
Reported: 08/04/2023 11:50

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0008 (Continued)</b>									
<b>Reference (BEH0008-SRM2)</b>									
Sodium	86		mg/L	91.50	93.6	93.6	90-110		
<b>Reference (BEH0008-SRM3)</b>									
Calcium	86.9		mg/L	79.00	110	110	90-110		
Magnesium	33.6		mg/L	30.60	110	110	90-110		

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07/28/23 08:00

23G2013

**WATER WORK REQUEST**

Acct No.

13258

Cons.

08

Bill To:

Purchase Order No.

Results Needed By

Client **Curti Family Inc.**  
 Address **3235 Avenue 199 B**  
 City, State, Zip **Tulare, CA 93274**  
 Email: **curtifamilyoffice@gmail.com**

Copy to: **solaconsultinginc@gmail.com**Requested by/Cell: **Martin Mora 690-8389**Facility: **3235 Ave 199 B Tulare**Date sampled **7-27-23**Sampled by **M Mora** QA/QC Document     Copy of Chain     RWQCBDESCRIPTION OF SAMPLES1. **well # 7**Sampled From: **discharge**2. **well # 5B**Sampled From: **11**

3.

Sampled From:

4.

Sampled From:

5.

Sampled From:

6.

Sampled From:

7.

Sampled From:

8.

Sampled From:

9.

Sampled From:

10.

Sampled From:

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<b>MMora</b>	<b>CFI</b>		<b>7/27/23 9:38 AM</b>
Second	<b>YPR</b>	<b>DU</b>	<b>7/27/23 9:38 AM</b>	
Third				
Fourth	<b>MMora</b>	<b>DU</b>	<b>7/28 08:00</b>	

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

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

**Invoicing Information:****Price List 2023**

			<b>Shipping</b>
Sampling Hrs	Miles	Consulting	\$ _____ In
			\$ _____ Out
Amt Paid	Rec By	Check No.	Date

Signature \_\_\_\_\_

Sample received in cooler with ice?

| | Yes | | No

ctt update 2020



07/28/23 08:00

23G2013

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" 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 checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>			Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>								
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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	
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	* pH Value										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
1 L unpreserved (BOD) (Purple) Plastic	1	1									
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	500 mL HNO <sub>3</sub> (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO <sub>3</sub> (Red)										
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	1 L AG HCl (Blue)										
Special	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										



Curti Family Inc  
3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:14

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K0771-01	Well Water (Discharge)	Ag Water	M Mora		11/14/2023 7:50

Default Cooler      Temperature on Receipt °C: 10.1  
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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Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:14

### Sample Results

**Sample: Well Water (Discharge)  
23K0771-01 (Water)**

Sampled: 11/14/2023 7:50

Sampled By: M Mora

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>131</b>	mg/L	10.0	1		11/21/23 13:45	SM 2320 B		BEK0621
Calcium	<b>50.4</b>	mg/L	0.1	1		11/17/23 10:06	EPA 200.7		BEK0370
Chloride	<b>22.2</b>	mg/L	0.2	1	250	11/15/23 16:04	EPA 300.0		BEK0488
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		11/21/23 13:45	SM 2320 B		BEK0621
Electrical Conductivity	<b>0.52</b>	mmhos/cm	0.01	1		11/21/23 13:45	SM 2510 B		BEK0621
Electrical Conductivity umhos	<b>525</b>	umhos/cm	10.0	1		11/21/23 13:45	SM 2510 B		BEK0621
Bicarbonate as CaCO <sub>3</sub>	<b>131</b>	mg/L	5.00	1		11/21/23 13:45	SM 2320 B		BEK0621
Potassium	ND	mg/L	0.500	1		11/17/23 10:06	EPA 200.7		BEK0370
Magnesium	<b>1.3</b>	mg/L	0.1	1		11/17/23 10:06	EPA 200.7		BEK0370
Sodium	<b>63</b>	mg/L	1	1		11/17/23 10:06	EPA 200.7		BEK0370
Ammonia (as N)	*	mg/L	0.00	1		11/15/23 10:30	Field		BEK0493
Nitrate Nitrogen as NO <sub>3</sub> N	<b>11.9</b>	mg/L	0.1	1	10	11/15/23 16:04	EPA 300.0		BEK0488
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		11/21/23 13:45	SM 2320 B		BEK0621
Temperature	<b>25.0</b>	units	0.0	1		11/21/23 13:45	SM 4500-H+	H	BEK0621
pH	<b>7.8</b>	units	1.0	1		11/21/23 13:45	SM 4500-H+	H	BEK0621
Sulfate (SO <sub>4</sub> )	<b>42.1</b>	mg/L	0.5	1	250	11/15/23 16:04	EPA 300.0		BEK0488
Total Filterable Solids (TDS)	<b>315</b>	mg/L	10.0	1		11/17/23 15:48	SM 2540 C		BEK0539

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3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:14

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0370</b>									
<b>Blank (BEK0370-BLK1)</b>									
Prepared: 11/16/2023 Analyzed: 11/17/2023									
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEK0370-BLK2)</b>									
Prepared: 11/16/2023 Analyzed: 11/17/2023									
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEK0370-BS1)</b>									
Prepared: 11/16/2023 Analyzed: 11/17/2023									
Sodium	39	1	mg/L	35.71	109	90-110			
Potassium	37.9	0.500	mg/L	35.71	106	90-110			
Calcium	38.8	0.1	mg/L	35.71	109	90-110			
Magnesium	39.2	0.1	mg/L	35.71	110	90-110			
<b>LCS (BEK0370-BS2)</b>									
Prepared: 11/16/2023 Analyzed: 11/17/2023									
Potassium	35.8	0.500	mg/L	35.71	100	90-110			
Sodium	37	1	mg/L	35.71	105	90-110			
Calcium	37.1	0.1	mg/L	35.71	104	90-110			
Magnesium	37.5	0.1	mg/L	35.71	105	90-110			
<b>Duplicate (BEK0370-DUP1)</b>									
<b>Source: 23K0770-01</b> Prepared: 11/16/2023 Analyzed: 11/17/2023									
Calcium	159	0.1	mg/L	157			1.26	15	
Potassium	ND	0.500	mg/L	ND					15
Sodium	60	1	mg/L	62			3.00	15	
Magnesium	6.0	0.1	mg/L	6.1			2.59	15	
<b>Matrix Spike (BEK0370-MS1)</b>									
<b>Source: 23K0770-01</b> Prepared: 11/16/2023 Analyzed: 11/17/2023									
Potassium	38.0	0.500	mg/L	35.71	ND	106	90-110		
Sodium	99	1	mg/L	35.71	62	103	90-110		
Calcium	199	0.1	mg/L	35.71	157	117	90-110		
Magnesium	43.6	0.1	mg/L	35.71	6.1	105	90-110		
<b>Matrix Spike (BEK0370-MS2)</b>									
<b>Source: 23K0811-01</b> Prepared: 11/16/2023 Analyzed: 11/17/2023									
Sodium	120	1	mg/L	35.71	81	108	90-110		
Calcium	71.9	0.1	mg/L	35.71	33.7	107	90-110		
Potassium	39.7	0.500	mg/L	35.71	2.58	104	90-110		
Magnesium	55.5	0.1	mg/L	35.71	17.4	107	90-110		
<b>Reference (BEK0370-SRM2)</b>									
Prepared: 11/16/2023 Analyzed: 11/17/2023									
Potassium	21.3		mg/L	21.90	97.3	90-110			

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Ranch: 3235 Ave 199 B Tulare

Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:14

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0370 (Continued)</b>									
<b>Reference (BEK0370-SRM2)</b>									
Sodium	93		mg/L	91.50		101	90-110		
<b>Reference (BEK0370-SRM3)</b>									
Calcium	49.2		mg/L	45.90		107	90-110		
Magnesium	38.2		mg/L	35.60		107	90-110		

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Ranch: 3235 Ave 199 B Tulare

Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:14

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0488</b>									
<b>Blank (BEK0488-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEK0488-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEK0488-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>LCS (BEK0488-BS1)</b>									
Chloride 5.6 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N 5.7 0.1 mg/L									
Sulfate (SO4) 5.3 0.5 mg/L									
<b>LCS (BEK0488-BS2)</b>									
Chloride 5.1 0.2 mg/L Prepared & Analyzed: 11/16/2023									
Nitrate Nitrogen as NO3N 5.3 0.1 mg/L									
Sulfate (SO4) 4.9 0.5 mg/L									
<b>Duplicate (BEK0488-DUP1)</b>									
Chloride 5.0 0.2 mg/L Source: 23K0751-01 Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N 1.5 0.1 mg/L									
Sulfate (SO4) 0.3 0.5 mg/L									
<b>Duplicate (BEK0488-DUP2)</b>									
Chloride 19.7 0.2 mg/L Source: 23K0774-01 Prepared & Analyzed: 11/16/2023									
Nitrate Nitrogen as NO3N 8.7 0.1 mg/L									
Sulfate (SO4) 17.9 0.5 mg/L									
<b>Matrix Spike (BEK0488-MS1)</b>									
Chloride 10.3 0.2 mg/L Source: 23K0751-01 Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N 6.8 0.1 mg/L									
Sulfate (SO4) 5.3 0.5 mg/L									
<b>Matrix Spike (BEK0488-MS2)</b>									
Chloride 24.7 0.2 mg/L Source: 23K0774-01 Prepared & Analyzed: 11/16/2023									
Nitrate Nitrogen as NO3N 13.9 0.1 mg/L									
Sulfate (SO4) 23.2 0.5 mg/L									

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Curti Family Inc  
3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0013258  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:14

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0488 (Continued)</b>									
<b>Reference (BEK0488-SRM1)</b>									
Chloride 12.9 mg/L 12.50 103 90-110									
Nitrate Nitrogen as NO3N 10.2 mg/L 10.00 102 90-110									
Sulfate (SO4) 10.2 mg/L 10.00 102 90-110									
<b>Reference (BEK0488-SRM2)</b>									
Chloride 13.0 mg/L 12.50 104 90-110									
Nitrate Nitrogen as NO3N 10.3 mg/L 10.00 103 90-110									
Sulfate (SO4) 10.2 mg/L 10.00 102 90-110									
<b>Reference (BEK0488-SRM3)</b>									
Chloride 13.0 mg/L 12.50 104 90-110									
Nitrate Nitrogen as NO3N 10.3 mg/L 10.00 103 90-110									
Sulfate (SO4) 10.2 mg/L 10.00 102 90-110									

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Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:14

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0539</b>									
<b>Blank (BEK0539-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 11/16/2023 Analyzed: 11/17/2023				
<b>LCS (BEK0539-BS1)</b>					Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	25.0	10.0	mg/L	2000	1.25	0-200			
<b>Duplicate (BEK0539-DUP1)</b>		<b>Source: 23K0708-01</b>			Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	2380	10.0	mg/L	2350			1.06	10	
<b>Duplicate (BEK0539-DUP2)</b>		<b>Source: 23K0736-01</b>			Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	3700	10.0	mg/L	3880			4.62	10	
<b>Reference (BEK0539-SRM1)</b>					Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	323		mg/L	325.0	99.5	90-110			

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Received: 11/14/2023 20:05  
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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0621</b>									
<b>Blank (BEK0621-BLK1)</b>									
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Temperature	25.0	0.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.5	1.0	units						
<b>Blank (BEK0621-BLK2)</b>									
Hydroxide as CaCO3	ND	1.00	mg/L						
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Alkalinity as CaCO3	ND	10.0	mg/L						
pH	5.4	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Duplicate (BEK0621-DUP1)</b>									
<b>Source: 23K0771-01</b>				Prepared: 11/17/2023 Analyzed: 11/21/2023					
Alkalinity as CaCO3	136	10.0	mg/L		131		3.59	10	
Carbonate as CaCO3	ND	1	mg/L		ND			10	
Electrical Conductivity	0.53	0.01	mmhos/cm		0.52		0.967	10	
Hydroxide as CaCO3	ND	1.00	mg/L		ND			10	
pH	7.8	1.0	units		7.8		0.640	10	
Electrical Conductivity umhos	530	10.0	umhos/cm		525		0.967	10	
<b>Reference (BEK0621-SRM1)</b>									
Electrical Conductivity	558		umhos/cm	538.0		104	90-110		
Alkalinity as CaCO3	39.0		mg/L	40.60		96.0	90-110		
<b>Reference (BEK0621-SRM2)</b>									
Electrical Conductivity	555		umhos/cm	538.0		103	90-110		
Alkalinity as CaCO3	40.6		mg/L	40.60		99.9	90-110		
<b>Reference (BEK0621-SRM4)</b>									
pH	4.0		units	4.000		101	97.5-102.5		
<b>Reference (BEK0621-SRM5)</b>									
pH	4.1		units	4.000		102	97.5-102.5		
<b>Reference (BEK0621-SRM7)</b>									
pH	7.5		units	7.520		100	67021-101.3		

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Reported: 11/22/2023 10:14

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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**Batch: BEK0621 (Continued)**

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11/14/23 20:05

23K0771

MM

**WATER WORK REQUEST**Bill To: 13258 Acct No. 08 Cons.

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

Client: Curti Family Inc.  
Address: 3235 Avenue 199 B  
City, State, Zip: Tulare, CA 93274  
Email: curtifamilyoffice@gmail.comCopy to: solaconsultinginc@gmail.comRequested by/Cell: Martin Mora 690-8389Facility: 3235 Ave 199 B TulareDate sampled: 11-14-23Sampled by: M Mora QA/QC Document     Copy of Chain     RWQCB**DESCRIPTION OF SAMPLES**

1. Well water      Sampled From: discharge
2. \_\_\_\_\_      Sampled From: \_\_\_\_\_
3. \_\_\_\_\_      Sampled From: \_\_\_\_\_
4. \_\_\_\_\_      Sampled From: \_\_\_\_\_
5. \_\_\_\_\_      Sampled From: \_\_\_\_\_
6. \_\_\_\_\_      Sampled From: \_\_\_\_\_
7. \_\_\_\_\_      Sampled From: \_\_\_\_\_
8. \_\_\_\_\_      Sampled From: \_\_\_\_\_
9. \_\_\_\_\_      Sampled From: \_\_\_\_\_
10. \_\_\_\_\_      Sampled From: \_\_\_\_\_

**DELLAVALLE LABORATORY, INC.**

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

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 1      No. Bottles 1  
**Water Type:**  
 Ag Water     Drinking  
 Supply Water     Ground Water  
 Other     Mon. Well  
 Wastewater**Analysis and Bottles Required: (Please Indicate Analysis)**

- DWI1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N Field Test)  
(I) 1 L plastic, unpreserved (white)
- DWI2: (DWI1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)  
(I) 1 L plastic, unpreserved (white)
- DCW1: (EC, NO<sub>3</sub>-N, TDS)  
(I) 1 L plastic, unpreserved (white)
- DPW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK )  
(I) 1 L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl)  
(I) 1 L plastic, unpreserved (white)

**Other**

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
<u>11-14-23</u>	<u>7:50A</u>	<u>10.1</u>	<u>10.6</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>M Mora</u>	<u>CFI</u>		
Second	<u>Pamela Proutor</u>	<u>OVI</u>	<u>11/14/23 0936</u>	
Third	<u>98</u>	<u>OVI</u>	<u>11/14 2050S</u>	
Fourth				

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

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

**Invoicing Information:****Price List 2023**

Sampling Hrs	Miles	Consulting	Shipping
<u> </u>	<u> </u>	<u> </u>	\$ <u> </u> In \$ <u> </u> Out

Amt Paid      Rec By      Check No

Date

Signature \_\_\_\_\_

Sample received in cooler with ice?

| Yes | No |

ctt.update 2020

IR Thermometer SN: 221511276  
Correction Factor: 0°C  
Calibration Due: 12/22/2023  
Location: Hanford

IR Thermometer SN: 200560723  
Correction Factor: 0°C  
Calibration Due: 12/22/2023  
Location: Laboratory



11/14/23 20:05

23K0771

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" 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					
<b>Container:</b> Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
1 L unpreserved (White) Plastic	I									
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
Special	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	1 L AG HCl (Blue)									
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
Chlorite/Bromate - 250 mL AG with EDA										
HAA5 - 250mL AG Ammonium Chlorite										
DO KIT										
Other:										



Curti Family Farms  
3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0015771  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 08/16/2023 7:00  
Reported: 08/18/2023 10:26

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1415-01	Domestic Well #10	Ag Water	M Mora		08/15/2023 9:30
Default Cooler	Temperature on Receipt °C: 13.2				
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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Received: 08/16/2023 7:00  
Reported: 08/18/2023 10:26

### Sample Results

**Sample: Domestic Well #10  
23H1415-01 (Water)**

Sampled: 8/15/2023 9:30

Sampled By: M Mora

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.76</b>	mmhos/cm	0.01	1		08/16/23 11:32	SM 2510 B		BEH0789
<b>Electrical Conductivity umhos</b>	<b>764</b>	umhos/cm	10.0	1		08/16/23 11:32	SM 2510 B		BEH0789
Ammonia (as N)	ND	mg/L	0.00	1		08/15/23 09:30	Field		BEH0801
<b>Nitrate Nitrogen as NO3N</b>	<b>26.0</b>	mg/L	0.1	1	10	08/16/23 18:34	EPA 300.0		BEH0803
<b>pH</b>	<b>7.4</b>	units	1.0	1		08/16/23 11:32	SM 4500-H+	H	BEH0789
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 11:32	SM 2510 B		BEH0789

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0789</b>									
<b>Blank (BEH0789-BLK1)</b>									
Prepared & Analyzed: 8/16/2023									
pH	5.6	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEH0789-BLK2)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.3	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0789-BLK3)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.2	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0789-DUP1)</b>									
Source: 23H0157-01 Prepared & Analyzed: 8/16/2023									
pH	6.7	1.0	units		6.6		1.20	10	
Electrical Conductivity	0.42	0.01	mmhos/cm		0.43		3.56	10	
Electrical Conductivity umhos	416	10.0	umhos/cm		432		3.56	10	
<b>Duplicate (BEH0789-DUP2)</b>									
Source: 23H1462-01 Prepared & Analyzed: 8/16/2023									
pH	7.9	1.0	units		7.9		0.127	10	
Electrical Conductivity	0.91	0.01	mmhos/cm		0.91		0.110	10	
Electrical Conductivity umhos	911	10.0	umhos/cm		912		0.110	10	
<b>Reference (BEH0789-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	505		umhos/cm		538.0	93.8	90-110		
<b>Reference (BEH0789-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
pH	5.8		units		5.820	101	28178-101.7		
<b>Reference (BEH0789-SRM3)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	945		umhos/cm		1000	94.5	90-110		
Electrical Conductivity umhos	945		umhos/cm		1000	94.5	90-110		
<b>Reference (BEH0789-SRM4)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	950		umhos/cm		1000	95.0	90-110		
Electrical Conductivity umhos	950		umhos/cm		1000	95.0	90-110		
<b>Reference (BEH0789-SRM5)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	958		umhos/cm		1000	95.8	90-110		

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0789 (Continued)</b>									
<b>Reference (BEH0789-SRM5)</b>									
Electrical Conductivity umhos	958		umhos/cm	1000	95.8	90-110			
<b>Reference (BEH0789-SRM6)</b>									
pH	4.0		units	4.000	101	97.5-102.5			
<b>Reference (BEH0789-SRM7)</b>									
pH	4.0		units	4.000	101	97.5-102.5			
<b>Reference (BEH0789-SRM8)</b>									
pH	4.0		units	4.000	101	97.5-102.5			

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Account# 00-0015771  
Account Manager: Ben Nydam  
Submitted By: Martin Mora  
Ranch: 3235 Ave 199 B Tulare

Received: 08/16/2023 7:00  
Reported: 08/18/2023 10:26

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0803</b>									
<b>Blank (BEH0803-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/16/2023				
<b>Blank (BEH0803-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/16/2023				
<b>Blank (BEH0803-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0803-BLK4)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>LCS (BEH0803-BS1)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	102	90-110			
<b>LCS (BEH0803-BS2)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	103	90-110			
<b>LCS (BEH0803-BS3)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	103	90-110			
<b>Duplicate (BEH0803-DUP1)</b>									
Nitrate Nitrogen as NO3N	8.8	0.1	mg/L	8.7			0.320	10	
<b>Duplicate (BEH0803-DUP2)</b>									
Nitrate Nitrogen as NO3N	14.1	0.1	mg/L	14.0			0.463	10	
<b>Duplicate (BEH0803-DUP3)</b>									
Nitrate Nitrogen as NO3N	1.2	0.1	mg/L	1.2			0.430	10	
<b>Matrix Spike (BEH0803-MS1)</b>									
Nitrate Nitrogen as NO3N	13.7	0.1	mg/L	5.000	8.7	99.8	90-110		
<b>Matrix Spike (BEH0803-MS2)</b>									
Nitrate Nitrogen as NO3N	19.0	0.1	mg/L	5.000	14.0	100	90-110		
<b>Matrix Spike (BEH0803-MS3)</b>									
Nitrate Nitrogen as NO3N	6.4	0.1	mg/L	5.000	1.2	105	90-110		
<b>Reference (BEH0803-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			
<b>Reference (BEH0803-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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***Batch: BEH0803 (Continued)***

Reference (BEH0803-SRM3)		Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110
Reference (BEH0803-SRM4)		Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00	102	90-110

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08/16/23 07:00

23H1415

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" 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 checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>				
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)								
	250 mL unpreserved (White) Plastic								
	250 mL HNO <sub>3</sub> (Red) Plastic								
	* pH Value								
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic								
	* pH Value								
	500 mL unpreserved (White) Plastic								
1 L unpreserved (White) Plastic									
1 L unpreserved (BOD) (Purple) Plastic									
Special	500mL unpreserved (White) Glass								
	PO4-P Kit								
	Other:								
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)								
	250 mL unpreserved (White) Plastic								
	250 mL HNO <sub>3</sub> (Red) Plastic								
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic								
	500 mL HNO <sub>3</sub> (Red)								
	1 L unpreserved (White) Plastic								
	1 L unpreserved (BOD) (Purple) Plastic								
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)								
	40mL AG VOA unpreserved (White) (Set of 3)								
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)								
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)								
	40 mL VOA, HCl (Blue) (Set of 3)								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)								
Glass	250 mL AG unpreserved (White)								
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)								
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)								
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA								
	500 mL glass unpreserved (White)								
	500 mL AG HCl (Blue)								
	1 L AG unpreserved (White)								
Special	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)								
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)								
	1 L AG HCl (Blue)								
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>								
	Cyanide - 500 mL NaOH								
	Asbestos - 1L P wrapped in foil (Set of 2)								
	Sulfide - 1 L AG or P NaOH + ZnAc								
Chlorite/Bromate - 250 mL AG with EDA									
HAA5 - 250mL AG Ammonium Chlorite									
DO KIT									
Other:									



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Ranch: 3235 Ave 199 B Tulare

Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:10

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K0770-01	Domestic Well (Discharge)	Ag Water	M Mora		11/14/2023 8:20

Default Cooler      Temperature on Receipt °C: 5.1  
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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### Sample Results

**Sample: Domestic Well (Discharge)**  
**23K0770-01 (Water)**

Sampled: 11/14/2023 8:20  
Sampled By: M Mora

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	<b>299</b>	mg/L	10.0	1		11/21/23 13:29	SM 2320 B		BEK0621
Calcium	<b>157</b>	mg/L	0.1	1		11/17/23 10:05	EPA 200.7		BEK0370
Chloride	<b>33.8</b>	mg/L	0.2	1	250	11/15/23 15:45	EPA 300.0		BEK0488
Carbonate as CaCO3	ND	mg/L	1	1		11/21/23 13:29	SM 2320 B		BEK0621
Electrical Conductivity	<b>1.11</b>	mmhos/cm	0.01	1		11/21/23 13:29	SM 2510 B		BEK0621
Electrical Conductivity umhos	<b>1110</b>	umhos/cm	10.0	1		11/21/23 13:29	SM 2510 B		BEK0621
Bicarbonate as CaCO3	<b>299</b>	mg/L	5.00	1		11/21/23 13:29	SM 2320 B		BEK0621
Potassium	ND	mg/L	0.500	1		11/17/23 10:05	EPA 200.7		BEK0370
Magnesium	<b>6.1</b>	mg/L	0.1	1		11/17/23 10:05	EPA 200.7		BEK0370
Sodium	<b>62</b>	mg/L	1	1		11/17/23 10:05	EPA 200.7		BEK0370
Ammonia (as N)	*	mg/L	0.00	1		11/15/23 10:30	Field		BEK0493
Nitrate Nitrogen as NO3N	<b>40.8</b>	mg/L	0.1	1	10	11/15/23 15:45	EPA 300.0		BEK0488
Hydroxide as CaCO3	ND	mg/L	1.00	1		11/21/23 13:29	SM 2320 B		BEK0621
Temperature	<b>25.0</b>	units	0.0	1		11/21/23 13:29	SM 4500-H+	H	BEK0621
pH	<b>7.6</b>	units	1.0	1		11/21/23 13:29	SM 4500-H+	H	BEK0621
Sulfate (SO4)	<b>47.8</b>	mg/L	0.5	1	250	11/15/23 15:45	EPA 300.0		BEK0488
Total Filterable Solids (TDS)	<b>780</b>	mg/L	10.0	1		11/17/23 15:48	SM 2540 C		BEK0539

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Received: 11/14/2023 20:05  
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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0370</b>									
<b>Blank (BEK0370-BLK1)</b>									
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEK0370-BLK2)</b>									
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEK0370-BS1)</b>									
Sodium	39	1	mg/L	35.71	109	90-110			
Calcium	38.8	0.1	mg/L	35.71	109	90-110			
Potassium	37.9	0.500	mg/L	35.71	106	90-110			
Magnesium	39.2	0.1	mg/L	35.71	110	90-110			
<b>LCS (BEK0370-BS2)</b>									
Sodium	37	1	mg/L	35.71	105	90-110			
Calcium	37.1	0.1	mg/L	35.71	104	90-110			
Potassium	35.8	0.500	mg/L	35.71	100	90-110			
Magnesium	37.5	0.1	mg/L	35.71	105	90-110			
<b>Duplicate (BEK0370-DUP1)</b>									
<b>Source: 23K0770-01</b>				Prepared: 11/16/2023 Analyzed: 11/17/2023					
Calcium	159	0.1	mg/L	157			1.26	15	
Potassium	ND	0.500	mg/L	ND					15
Sodium	60	1	mg/L	62			3.00	15	
Magnesium	6.0	0.1	mg/L	6.1			2.59	15	
<b>Matrix Spike (BEK0370-MS1)</b>									
<b>Source: 23K0770-01</b>				Prepared: 11/16/2023 Analyzed: 11/17/2023					
Sodium	99	1	mg/L	35.71	62	90-110			
Potassium	38.0	0.500	mg/L	35.71	ND	90-110			
Calcium	199	0.1	mg/L	35.71	157	90-110			
Magnesium	43.6	0.1	mg/L	35.71	6.1	90-110			
<b>Matrix Spike (BEK0370-MS2)</b>									
<b>Source: 23K0811-01</b>				Prepared: 11/16/2023 Analyzed: 11/17/2023					
Potassium	39.7	0.500	mg/L	35.71	2.58	90-110			
Calcium	71.9	0.1	mg/L	35.71	33.7	90-110			
Sodium	120	1	mg/L	35.71	81	90-110			
Magnesium	55.5	0.1	mg/L	35.71	17.4	90-110			
<b>Reference (BEK0370-SRM2)</b>									
Sodium	93		mg/L	91.50	101	90-110			

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0370 (Continued)</b>									
<b>Reference (BEK0370-SRM2)</b>									
Potassium	21.3		mg/L	21.90		97.3	90-110		
<b>Reference (BEK0370-SRM3)</b>									
Calcium	49.2		mg/L	45.90		107	90-110		
Magnesium	38.2		mg/L	35.60		107	90-110		

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0488</b>									
<b>Blank (BEK0488-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEK0488-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEK0488-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>LCS (BEK0488-BS1)</b>									
Chloride 5.6 0.2 mg/L Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N 5.7 0.1 mg/L									
Sulfate (SO4) 5.3 0.5 mg/L									
<b>LCS (BEK0488-BS2)</b>									
Chloride 5.1 0.2 mg/L Prepared & Analyzed: 11/16/2023									
Nitrate Nitrogen as NO3N 5.3 0.1 mg/L									
Sulfate (SO4) 4.9 0.5 mg/L									
<b>Duplicate (BEK0488-DUP1)</b>									
Chloride 5.0 0.2 mg/L Source: 23K0751-01 Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N 1.5 0.1 mg/L									
Sulfate (SO4) 0.3 0.5 mg/L									
<b>Duplicate (BEK0488-DUP2)</b>									
Chloride 19.7 0.2 mg/L Source: 23K0774-01 Prepared & Analyzed: 11/16/2023									
Nitrate Nitrogen as NO3N 8.7 0.1 mg/L									
Sulfate (SO4) 17.9 0.5 mg/L									
<b>Matrix Spike (BEK0488-MS1)</b>									
Chloride 10.3 0.2 mg/L Source: 23K0751-01 Prepared & Analyzed: 11/15/2023									
Nitrate Nitrogen as NO3N 6.8 0.1 mg/L									
Sulfate (SO4) 5.3 0.5 mg/L									
<b>Matrix Spike (BEK0488-MS2)</b>									
Chloride 24.7 0.2 mg/L Source: 23K0774-01 Prepared & Analyzed: 11/16/2023									
Nitrate Nitrogen as NO3N 13.9 0.1 mg/L									
Sulfate (SO4) 23.2 0.5 mg/L									

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0488 (Continued)</b>									
<b>Reference (BEK0488-SRM1)</b>									
Chloride 12.9 mg/L 12.50 103 90-110									
Nitrate Nitrogen as NO3N 10.2 mg/L 10.00 102 90-110									
Sulfate (SO4) 10.2 mg/L 10.00 102 90-110									
<b>Reference (BEK0488-SRM2)</b>									
Chloride 13.0 mg/L 12.50 104 90-110									
Nitrate Nitrogen as NO3N 10.3 mg/L 10.00 103 90-110									
Sulfate (SO4) 10.2 mg/L 10.00 102 90-110									
<b>Reference (BEK0488-SRM3)</b>									
Chloride 13.0 mg/L 12.50 104 90-110									
Nitrate Nitrogen as NO3N 10.3 mg/L 10.00 103 90-110									
Sulfate (SO4) 10.2 mg/L 10.00 102 90-110									

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0539</b>									
<b>Blank (BEK0539-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 11/16/2023 Analyzed: 11/17/2023				
<b>LCS (BEK0539-BS1)</b>					Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	25.0	10.0	mg/L	2000	1.25	0-200			
<b>Duplicate (BEK0539-DUP1)</b>		<b>Source: 23K0708-01</b>			Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	2380	10.0	mg/L	2350			1.06	10	
<b>Duplicate (BEK0539-DUP2)</b>		<b>Source: 23K0736-01</b>			Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	3700	10.0	mg/L	3880			4.62	10	
<b>Reference (BEK0539-SRM1)</b>					Prepared: 11/16/2023 Analyzed: 11/17/2023				
Total Filterable Solids (TDS)	323		mg/L	325.0	99.5	90-110			

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Received: 11/14/2023 20:05  
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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEK0621</b>									
<b>Blank (BEK0621-BLK1)</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Temperature	25.0	0.0	units						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
pH	5.5	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
<b>Blank (BEK0621-BLK2)</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Temperature	25.0	0.0	units						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.4	1.0	units						
<b>Duplicate (BEK0621-DUP1)</b>									
<b>Source: 23K0771-01</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
Electrical Conductivity	0.53	0.01	mmhos/cm		0.52			0.967	10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Alkalinity as CaCO <sub>3</sub>	136	10.0	mg/L		131			3.59	10
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Electrical Conductivity umhos	530	10.0	umhos/cm		525			0.967	10
pH	7.8	1.0	units		7.8			0.640	10
<b>Reference (BEK0621-SRM1)</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
Electrical Conductivity	558	umhos/cm	538.0		104	90-110			
Alkalinity as CaCO <sub>3</sub>	39.0	mg/L	40.60		96.0	90-110			
<b>Reference (BEK0621-SRM2)</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
Alkalinity as CaCO <sub>3</sub>	40.6	mg/L	40.60		99.9	90-110			
Electrical Conductivity	555	umhos/cm	538.0		103	90-110			
<b>Reference (BEK0621-SRM4)</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
pH	4.0	units	4.000		101	97.5-102.5			
<b>Reference (BEK0621-SRM5)</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
pH	4.1	units	4.000		102	97.5-102.5			
<b>Reference (BEK0621-SRM7)</b>									
Prepared: 11/17/2023 Analyzed: 11/21/2023									
pH	7.5	units	7.520		100	67021-101.3			

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Curti Family Farms  
3235 Ave 199-B  
Tulare, CA 93274

Account# 00-0015771  
Account Manager: Ben Nydam  
Submitted By: Martin Mora / P Curti  
Ranch: 3235 Ave 199 B Tulare

Received: 11/14/2023 20:05  
Reported: 11/22/2023 10:10

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
---------	-------------	-----------------	-------	-------------	---------------	------	--------	-----	-----------

**Batch: BEK0621 (Continued)**

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11/14/23 20:05

23K0770

WATER

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other _____										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
<b>Container:</b> Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
1 L unpreserved (White) Plastic										
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
Special	1 L AG HCl (Blue)									
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
DO KIT										
Other:										



Sola Consulting Inc  
PO Box 190  
Tipton, CA 93272

Account# 00-0020655  
Account Manager: Ben Nydam  
Submitted By: Vince Sola

Received: 05/11/2023 8:59  
Reported: 06/02/2023 13:29

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E1020-01	Tulare Canal	Ag Water	Moises Barajas		05/10/2023 12:16

Default Cooler      Temperature on Receipt °C: -0.6  
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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Submitted By: Vince Sola

Received: 05/11/2023 8:59  
Reported: 06/02/2023 13:29

## Sample Results

**Sample: Tulare Canal**  
**23E1020-01 (Water)**

Sampled: 5/10/2023 12:16  
Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	<b>0.07</b>	mmhos/cm	0.01	1		05/11/23 14:09	SM 2510 B		BEE0443
Electrical Conductivity umhos	<b>70.0</b>	umhos/cm	10.0	1		05/11/23 14:09	SM 2510 B		BEE0443
Nitrate Nitrogen as NO3N	<b>0.2</b>	mg/L	0.1	1	10	05/11/23 17:09	EPA 300.0		BEE0425
pH	<b>8.1</b>	units	1.0	1		05/11/23 14:09	SM 4500-H+	H	BEE0443
Total Filterable Solids (TDS)	<b>52.9</b>	mg/L	10.0	1		06/02/23 12:10	SM 2540 C		BEE0466
Temperature	<b>25.0</b>	°C	0.0	1		05/11/23 14:09	SM 2510 B		BEE0443

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Tipton, CA 93272

Account# 00-0020655  
Account Manager: Ben Nydam  
Submitted By: Vince Sola

Received: 05/11/2023 8:59  
Reported: 06/02/2023 13:29

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0425</b>									
<b>Blank (BEE0425-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/11/2023				
<b>Blank (BEE0425-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/11/2023				
<b>Blank (BEE0425-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 5/11/2023 Analyzed: 5/12/2023				
<b>LCS (BEE0425-BS1)</b>									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000	108	90-110			
<b>LCS (BEE0425-BS2)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	103	90-110			
<b>Duplicate (BEE0425-DUP1)</b>									
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L	0.6			1.74	10	
<b>Duplicate (BEE0425-DUP2)</b>									
Nitrate Nitrogen as NO3N	27.9	0.1	mg/L	27.9			0.222	10	
<b>Matrix Spike (BEE0425-MS1)</b>									
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.6	101	90-110		
<b>Matrix Spike (BEE0425-MS2)</b>									
Nitrate Nitrogen as NO3N	32.6	0.1	mg/L	5.000	27.9	92.5	90-110		
<b>Reference (BEE0425-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00	100	90-110			
<b>Reference (BEE0425-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			

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Received: 05/11/2023 8:59  
Reported: 06/02/2023 13:29

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0443</b>									
<b>Blank (BEE0443-BLK1)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 5.5 1.0 units									
Temperature 25.0 0.0 °C									
Electrical Conductivity umhos ND 10.0 umhos/cm									
<b>Blank (BEE0443-BLK2)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 5.6 1.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Temperature 25.0 0.0 °C									
<b>Blank (BEE0443-BLK3)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 5.7 1.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Temperature 25.0 0.0 °C									
<b>Duplicate (BEE0443-DUP1)</b>									
Source: 23E0842-01 Prepared & Analyzed: 5/11/2023									
pH 4.3 1.0 units 4.3 0.00 10									
Electrical Conductivity 1.70 0.01 mmhos/cm 1.70 0.0588 10									
Electrical Conductivity umhos 1700 10.0 umhos/cm 1700 0.0588 10									
<b>Duplicate (BEE0443-DUP2)</b>									
Source: 23E1024-01 Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 0.07 0.01 mmhos/cm 0.07 0.578 10									
pH 8.1 1.0 units 8.2 0.737 10									
Electrical Conductivity umhos 69.0 10.0 umhos/cm 69.4 0.578 10									
<b>Reference (BEE0443-SRM2)</b>									
Prepared & Analyzed: 5/11/2023									
pH 7.8 units 7.790 100 .7163-101.28									
<b>Reference (BEE0443-SRM3)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 1060 umhos/cm 1000 106 90-110									
Electrical Conductivity umhos 1060 umhos/cm 1000 106 90-110									
<b>Reference (BEE0443-SRM4)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 1060 umhos/cm 1000 106 90-110									
Electrical Conductivity umhos 1060 umhos/cm 1000 106 90-110									
<b>Reference (BEE0443-SRM5)</b>									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity 1070 umhos/cm 1000 107 90-110									
Electrical Conductivity umhos 1070 umhos/cm 1000 107 90-110									
<b>Reference (BEE0443-SRM6)</b>									
Prepared & Analyzed: 5/11/2023									

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Sola Consulting Inc  
PO Box 190  
Tipton, CA 93272

Account# 00-0020655  
Account Manager: Ben Nydam  
Submitted By: Vince Sola

Received: 05/11/2023 8:59  
Reported: 06/02/2023 13:29

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0443 (Continued)</b>									
<b>Reference (BEE0443-SRM6)</b>									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEE0443-SRM7)</b>									
pH	4.0		units	4.000	99.8	97.5-102.5			
<b>Reference (BEE0443-SRM8)</b>									
pH	4.0		units	4.000	99.8	97.5-102.5			

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Sola Consulting Inc  
PO Box 190  
Tipton, CA 93272

Account# 00-0020655  
Account Manager: Ben Nydam  
Submitted By: Vince Sola

Received: 05/11/2023 8:59  
Reported: 06/02/2023 13:29

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0466</b>									
<b>Blank (BEE0466-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023				
<b>LCS (BEE0466-BS1)</b>									
Total Filterable Solids (TDS)	21.2	10.0	mg/L	2000	Prepared: 5/11/2023 Analyzed: 6/2/2023	1.06	0-200		
<b>Duplicate (BEE0466-DUP1)</b>									
Total Filterable Solids (TDS)	1260	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023	1240		1.60	5
<b>Duplicate (BEE0466-DUP2)</b>									
Total Filterable Solids (TDS)	4850	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023	4750		2.08	5
<b>Reference (BEE0466-SRM1)</b>									
Total Filterable Solids (TDS)	310		mg/L	325.0	Prepared: 5/11/2023 Analyzed: 6/2/2023	95.4	90-110		

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05/11/23 08:59

23E1020

JG

**WATER WORK REQUEST**

Bill To:	Acct No. (For Login Not Billing)	Cons
	20655	8

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

Client **Sola Consulting**  
 Canal **Tulare Irrigation District**  
 Requested by **Vince Sola**

Copy to	Email	Acct #
Vince Sola	solaconsulting@gmail.com	N/A
Curti Family Farms	curtifamilyoffice@gmail.com	15771
Curti Family Inc	curtifamilyoffice@gmail.com	13258
Curtimade	bencurtifarms@yahoo.com	15775
Mancebo #1	onepasstillage@yahoo.com	19286

Date sampled **5-10-23**

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

## DESCRIPTION OF SAMPLES

1. **Tulare Canal** Sampled From: \_\_\_\_\_
2. \_\_\_\_\_ Sampled From: \_\_\_\_\_

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>Maria Brant</i>	DLI	5-10-23 12:16PM	2020 5-10-23
Second				
Third				
Fourth	<i>Jasmine L</i>	DLI	5/11/23 8:59	

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

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

## Invoicing Information:

Client	Acct #	Invoicing	Price List
Curti Family Farms	15771	\$18.00	Price List
Curti Family Inc	13258	\$18.00	Price List
Curtimade	15775	\$18.00	Ortly
Mancebo Holsteins #1	19286	\$18.00	Ortly
Mancebo Holsteins #2	19287	\$18.00	Ortly
Rio Blanco Dairy	13323	\$18.00	Ortly
S&S Dairy	15850	\$18.00	Ortly

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

IR Thermometer SN: 200560723  
 Correction Factor: 0°C  
 Calibration Due: 6/30/2023  
 Location: Laboratory

cit update 2020

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input checked="" type="checkbox"/> Hanford Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/> Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory										
<b>Type of Container(s) Received</b>	<b>Sample Number</b>									
	1	2	3	4	5	6	7	8	9	10
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
Special	1 L unpreserved (BOD) (Purple) Plastic									
	500mL unpreserved (White) Glass									
	PO4-P Kit									
Other:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	250 mL AG unpreserved (White)									
250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										
500 mL glass unpreserved (White)										
500 mL AG HCl (Blue)										
1 L AG unpreserved (White)										
1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
1 L AG HCl (Blue)										
Glass	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
	Other:									
Special	Other:									



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