

**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:** Iest Family Farms

Physical address of dairy:

14576 Avenue 14

Number and Street

Madera

City

Madera

County

93637

Zip Code

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

Date facility was originally placed in operation: 01/01/1970Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X043-X101-X006-XXXX**B. OPERATORS**

Iest, Danny

Operator name: Iest, DannyTelephone no.: (559) 706-0749 (559) 908-8079

Landline Cellular

16500 Avenue 14

Madera

CA

93637

Mailing Address Number and Street

City

State

Zip Code

Iest, Richard C

Operator name: Iest, Richard CTelephone no.: (559) 647-9417

Landline Cellular

14576 Avenue 14

Madera

CA

93637

Mailing Address Number and Street

City

State

Zip Code

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

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

Iest, Richard C

Legal owner name: Iest, Richard C

Telephone no.: (559) 647-9417

Landline

Cellular

14576 Avenue 14

Madera

CA

93637

Mailing Address Number and Street

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

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**AVAILABLE NUTRIENTS****A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	3,690	565	2,025	1,910	735	715
Number under roof	0	0	0	0	0	0
Maximum number	3,800	700	2,065	1,943	745	727
Average number	3,690	565	2,025	1,910	735	715
Avg live weight (lbs)	1,400	1,400	900	650		

Predominant milk cow breed: Holstein

Average milk production: 74 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 147,839.77 tons per reporting period

Total nitrogen from manure: 1,810,840.20 lbs per reporting period

After ammonia losses (30% loss applied): 1,267,588.14 lbs per reporting period

Total phosphorus from manure: 295,721.19 lbs per reporting period

Total potassium from manure: 716,366.37 lbs per reporting period

Total salt from manure: 1,867,358.25 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 135,777,000 gallons

Total nitrogen generated: 246,504.43 lbs

Total phosphorus generated: 55,261.44 lbs

Total potassium generated: 391,794.20 lbs

Total salt generated: 7,218,434.68 lbs

$$\begin{aligned}
 & 135,777,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 135,777,000 \text{ gallons generated}
 \end{aligned}$$

**D. FRESH WATER SOURCES**

Source Description	Type
Canal Leon (CWD)	Surface water
FID Canal	Surface water
IFF 1	Ground water
IFF 10	Ground water
IFF 100	Ground water

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Source Description	Type
IFF 11	Ground water
IFF 112	Ground water
IFF 115	Ground water
IFF 116 Reservoir	Ground water
IFF 13	Ground water
IFF 14	Ground water
IFF 16	Ground water
IFF 17	Ground water
IFF 18	Ground water
IFF 19	Ground water
IFF 2	Ground water
IFF 20	Ground water
IFF 21	Ground water
IFF 22	Ground water
IFF 23	Ground water
IFF 24	Ground water
IFF 25	Ground water
IFF 28	Ground water
IFF 3	Ground water
IFF 37	Ground water
IFF 38	Ground water
IFF 4	Ground water
IFF 44	Ground water
IFF 47	Ground water
IFF 48	Ground water
IFF 5	Ground water
IFF 52	Ground water
IFF 59	Ground water
IFF 61	Ground water
IFF 63	Ground water
IFF 65	Ground water
IFF 68	Ground water
IFF 73	Ground water
IFF 80	Ground water
IFF 82	Ground water
IFF 88	Ground water
IFF 92	Ground water
IFF 93	Ground water

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Source Description	Type
IFF 95 Reservoir	Ground water
IFF 96 Reservoir	Ground water
IFF 98 Reservoir	Ground water
IFF Dom #76	Ground water
IFF East Canal (MID)	Surface water
IFF Reservoir 30	Ground water
IFF Reservoir East	Ground water
MID	Surface water
Olge Tree Canal	Surface water
TID 18	Ground water
TID 97 Reservoir	Ground water

**E. SUBSURFACE (TILE) DRAINAGE SOURCES***No subsurface (tile) drainage sources entered.***F. NUTRIENT IMPORTS***No dry manure nutrient imports entered.**No process wastewater nutrient imports entered.*

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
04/03/2023	Solid commercial fertilizer 25-0-0-5S	89.66 ton	As-is	0.1	25.000000	0.000000	0.000000	0.000000
05/03/2023	Solid commercial fertilizer 25-0-0-5S	105.92 ton	As-is	0.1	25.000000	0.000000	0.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	97,790.00	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
Total imports for all materials	97,790.00	0.00	0.00	0.00

**G. NUTRIENT EXPORTS**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/10/2023	Separator solids	6,186.00 ton	Dry-weight	35.0		22,100.00	9,200.00	32,500.00		59.10
12/27/2023	Corral solids	3,774.00 ton	Dry-weight	19.7		19,300.00	5,100.00	19,300.00		0.00

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Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	294,701.93	104,895.88	378,336.65	4,752,703.80
Process wastewater	0.00	0.00	0.00	0.00
<b>Total exports for all materials</b>	<b>294,701.93</b>	<b>104,895.88</b>	<b>378,336.65</b>	<b>4,752,703.80</b>

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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
I101	12	12	1	none	X043-X101-X006-XXXX
I102	22	22	2	process wastewater	X043-X101-X006-XXXX
I103	125	125	2	process wastewater	X043-X101-X006-XXXX
I104	105	105	2	both	X043-X103-X001-XXXX
I105	83	83	2	process wastewater	X043-X103-X002-XXXX
I106	90	90	2	both	X043-X103-X003-XXXX
I1101	37	37	0	none	X043-X053-X005-XXXX
I1102	36	36	2	manure	X043-X053-X005-XXXX
I1103	36	36	1	manure	X043-X053-X005-XXXX
I1104	33	33	1	manure	X043-X053-X005-XXXX
I1201	95	95	1	manure	X026-X290-X037-XXXX
I1301	18	18	1	none	X029-X250-X032-XXXX
I201	76	76	2	process wastewater	X045-X041-X009-XXXX
I202	75	75	2	both	X045-X100-X024-XXXX
I203	37	37	2	both	X045-X100-X001-XXXX
I204	75	75	1	manure	X045-X100-X009-XXXX
I205	75	75	2	process wastewater	X045-X041-X011-XXXX
I206	37	37	2	both	X045-X100-X024-XXXX
I207	79	79	1	manure	X045-X100-X009-XXXX
I208	77	77	2	manure	X045-X041-X012-XXXX
I209	37	37	1	manure	X045-X100-X004-XXXX
I210	35	35	0	none	X045-X100-X025-XXXX
I211	75	75	0	none	X045-X100-X009-XXXX
I212	77	77	2	manure	X045-X041-X012-XXXX
I213	76	76	1	manure	X045-X100-X004-XXXX
I401	76	76	1	manure	X043-X042-X001-XXXX
I402	79	79	1	manure	X043-X042-X001-XXXX
I403	79	79	1	manure	X043-X042-X001-XXXX
I404	79	79	1	manure	X043-X042-X001-XXXX
I405	76	76	1	none	X043-X042-X001-XXXX
I406	75	75	1	none	X043-X042-X001-XXXX
I407	77	77	1	none	X043-X042-X001-XXXX
I408	75	75	1	none	X043-X042-X001-XXXX
I409	79	79	2	manure	X043-X030-X020-XXXX

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
I410	72	72	2	manure	X043-X030-X020-XXXX
I411	72	72	2	manure	X043-X030-X020-XXXX
I501	75	75	1	none	X043-X091-X006-XXXX
I502	77	77	1	none	X043-X091-X006-XXXX
I503	75	75	1	none	X043-X091-X006-XXXX
I504	76	76	1	none	X043-X091-X006-XXXX
I505	77	77	2	manure	X043-X091-X006-XXXX
I506	100	100	2	manure	X043-X091-X006-XXXX
I507	77	77	2	manure	X043-X091-X006-XXXX
I701	50	50	1	manure	X023-X240-X007-XXXX
I801	82	82	1	manure	X504-X020-X062-XXXX
I802	91	91	0	none	X504-X020-X064-XXXX
Totals for areas that were used for application	2,268	2,268	51		
Totals for areas that were not used for application	874	874	10		
Land application area totals	3,142	3,142	61		

**B. CROPS AND HARVESTS**

I101

Field name: I101

01/01/2018: Almond, in shell

Crop: Almond, in shell      Acres planted: 12      Plant date: 01/01/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	43.67 ton	As-is		8.9	13,300.00	1,400.00	18,200.00		5.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	3.64	96.80	10.19	132.47	344.79

I102

Field name: I102

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I102

10/01/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 22      Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	401.05 ton	As-is		69.5	8,400.00	1,300.00	13,200.00		14.03

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	18.23	306.26	47.40	481.26	1,560.14

06/06/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	528.89 ton	As-is		57.7	5,700.00	1,100.00	6,700.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	24.04	274.06	52.89	322.14	1,362.66

I103

Field name: I103

10/20/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 125      Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	2,215.69 ton	As-is		57.0	12,900.00	2,200.00	20,300.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	17.73	457.32	77.99	719.66	1,996.96

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I103

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 125      Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	3,169.70 ton	As-is		66.5	3,400.00	700.00	4,100.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	25.36	172.43	35.50	207.93	917.44

I104

Field name: I104

10/01/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 98      Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/15/2023	1,143.06 ton	As-is		57.8	14,500.00	2,100.00	20,800.00		15.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	11.66	338.25	48.99	485.22	1,565.25

05/27/2023: Tomato

Crop: Tomato      Acres planted: 98      Plant date: 05/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	6,067.90 ton	As-is		94.0	1,200.00	200.00	2,000.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	186.00	30.00	294.00	0.00
Total actual harvest content	61.92	148.60	24.77	247.67	780.16

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I105

Field name: I105

10/01/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 83      Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,369.50 ton	As-is		63.8	11,300.00	2,100.00	19,300.00		14.87

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	16.50	372.90	69.30	636.90	1,776.37

06/07/2023: Corn, silage

Crop: Corn, silage      Acres planted: 83      Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	1,752.45 ton	As-is		65.0	4,400.00	800.00	4,800.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	21.11	185.80	33.78	202.69	842.44

I106

Field name: I106

10/01/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 90      Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,054.00 ton	As-is		56.9	11,100.00	2,000.00	17,300.00		13.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	11.71	259.99	46.84	405.20	1,312.35

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I106

06/01/2023: Tomato

Crop: Tomato      Acres planted: 90      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	4,314.40 ton	As-is		95.0	1,400.00	200.00	2,300.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	186.00	30.00	294.00	0.00
Total actual harvest content	47.94	134.23	19.18	220.51	608.81

I1102

Field name: I1102

10/03/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 21      Plant date: 10/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	322.65 ton	As-is		63.5	9,900.00	1,800.00	15,100.00		16.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	15.36	304.21	55.31	464.00	1,809.13

06/23/2023: Corn, silage

Crop: Corn, silage      Acres planted: 21      Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/14/2023	670.23 ton	As-is		70.4	3,800.00	800.00	4,300.00		7.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	31.92	242.56	51.07	274.48	1,417.06

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**I1103**Field name: I1103

05/08/2023: Corn, silage

Crop: Corn, silageAcres planted: 36 Plant date: 05/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/24/2023	924.18 ton	As-is		62.8	5,100.00	800.00	7,400.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	25.67	261.85	41.07	379.94	1,986.37

**I1104**Field name: I1104

05/08/2023: Corn, silage

Crop: Corn, silageAcres planted: 33 Plant date: 05/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/24/2023	861.55 ton	As-is		62.8	5,100.00	800.00	7,400.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	26.11	266.30	41.77	386.39	2,020.10

**I1201**Field name: I1201

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I1201

01/01/2009: Almond, in shell

Crop: Almond, in shell Acres planted: 95 Plant date: 01/01/2009

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/11/2023	428.58 ton	As-is		8.1	10,600.00	1,800.00	14,600.00		8.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	4.51	95.64	16.24	131.73	671.64

I1301

Field name: I1301

02/01/2013: Almond, in shell

Crop: Almond, in shell Acres planted: 18 Plant date: 02/01/2013

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	36.37 ton	As-is		6.9	15,100.00	2,200.00	26,500.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	2.02	61.02	8.89	107.09	342.37

I201

Field name: I201

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I201

10/25/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 76      Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,457.51 ton	As-is		64.6	10,700.00	1,800.00	16,400.00		15.03

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	19.18	410.40	69.04	629.03	2,040.75

06/12/2023: Tomato

Crop: Tomato      Acres planted: 76      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 (%)
10/13/2023	2,841.70 ton	As-is		94.0	1,100.00	200.00	2,000.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	186.00	30.00	294.00	0.00
Total actual harvest content	37.39	82.26	14.96	149.56	515.99

I202

Field name: I202

09/16/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 75      Plant date: 09/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,084.91 ton	As-is		55.3	10,000.00	1,600.00	14,400.00		13.25

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	14.47	289.31	46.29	416.61	1,713.51

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I202

06/12/2023: Corn, silage

Crop: Corn, silage      Acres planted: 75      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 (%)
10/06/2023	2,174.80 ton	As-is		67.9	4,000.00	900.00	4,800.00		6.30
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		28.00 243.60 39.20 184.80				0.00			
Total actual harvest content		29.00 231.98 52.20 278.37				1,172.83			

I203

Field name: I203

09/16/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 37      Plant date: 09/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	429.60 ton	As-is		49.6	9,500.00	1,500.00	14,200.00		11.87
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		17.00 188.70 28.90 141.10				0.00			
Total actual harvest content		11.61 220.61 34.83 329.75				1,389.23			

06/06/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,099.13 ton	As-is		69.6	3,400.00	600.00	3,400.00		6.50
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		28.00 243.60 39.20 184.80				0.00			
Total actual harvest content		29.71 202.00 35.65 202.00				1,173.99			

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I204

Field name: I204

01/01/2004: Almond, in shell

Crop: Almond, in shell      Acres planted: 75      Plant date: 01/01/2004

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	317.75 ton	As-is		10.8	17,700.00	2,300.00	27,500.00		8.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	4.24	149.98	19.49	233.02	627.33

I205

Field name: I205

10/25/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 75      Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,385.64 ton	As-is		62.1	13,200.00	1,900.00	16,900.00		15.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	18.48	487.75	70.21	624.46	2,100.63

06/12/2023: Tomato

Crop: Tomato      Acres planted: 75      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 (%)
10/13/2023	2,796.77 ton	As-is		93.4	1,300.00	200.00	2,400.00		11.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	186.00	30.00	294.00	0.00
Total actual harvest content	37.29	96.95	14.92	178.99	585.76

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I206

Field name: I206

09/16/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 37      Plant date: 09/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	411.79 ton	As-is		54.5	9,400.00	1,300.00	12,000.00		14.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	11.13	209.23	28.94	267.11	1,438.15

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 37      Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	1,029.16 ton	As-is		67.9	4,000.00	900.00	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	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	27.82	222.52	50.07	189.14	1,285.73

I207

Field name: I207

01/01/2005: Almond, in shell

Crop: Almond, in shell      Acres planted: 79      Plant date: 01/01/2005

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	336.06 ton	As-is		10.8	17,700.00	2,300.00	27,500.00		8.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	4.25	150.59	19.57	233.97	629.89

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I208

Field name: I208

11/10/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 77      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 (%)
05/08/2023	1,149.97 ton	As-is		49.5	16,500.00	2,400.00	19,000.00		12.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	14.93	492.84	71.69	567.52	1,893.04

06/12/2023: Tomato

Crop: Tomato      Acres planted: 77      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 (%)
10/17/2023	4,116.00 ton	As-is		93.5	1,500.00	200.00	2,100.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	186.00	30.00	294.00	0.00
Total actual harvest content	53.45	160.36	21.38	224.51	799.15

I209

Field name: I209

01/01/2004: Almond, in shell

Crop: Almond, in shell      Acres planted: 37      Plant date: 01/01/2004

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	156.74 ton	As-is		11.4	16,100.00	2,200.00	23,100.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	4.24	136.41	18.64	195.71	570.50

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I212

Field name: I212

11/10/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 77      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 (%)
05/08/2023	791.94 ton	As-is		52.8	11,600.00	1,800.00	14,900.00		12.87

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	10.28	238.61	37.03	306.49	1,249.55

06/12/2023: Tomato

Crop: Tomato      Acres planted: 77      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 (%)
10/17/2023	4,078.98 ton	As-is		92.6	1,500.00	200.00	2,200.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	186.00	30.00	294.00	0.00
Total actual harvest content	52.97	158.92	21.19	233.08	846.73

I213

Field name: I213

01/01/2012: Almond, in shell

Crop: Almond, in shell      Acres planted: 76      Plant date: 01/01/2012

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	325.41 ton	As-is		11.4	16,100.00	2,200.00	23,100.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	4.28	137.87	18.84	197.82	576.63

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I401

Field name: I401

08/30/2015: Almond, in shell

Crop: Almond, in shell      Acres planted: 76      Plant date: 08/30/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	465.28 ton	As-is		6.5	15,500.00	2,200.00	26,300.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	6.12	189.79	26.94	322.02	915.87

I402

Field name: I402

08/30/2014: Almond, in shell

Crop: Almond, in shell      Acres planted: 79      Plant date: 08/30/2014

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	479.95 ton	As-is		7.3	15,900.00	2,500.00	22,300.00		7.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	6.08	193.20	30.38	270.96	822.25

I403

Field name: I403

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I403

08/30/2015: Almond, in shell

Crop: Almond, in shell Acres planted: 79 Plant date: 08/30/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	483.62 ton	As-is		9.5	12,700.00	1,700.00	20,600.00		8.80
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		4.50 172.80 21.60 147.60				0.00			
Total actual harvest content		6.12 155.49 20.81 252.22				975.08			

I404

Field name: I404

08/30/2014: Almond, in shell

Crop: Almond, in shell Acres planted: 79 Plant date: 08/30/2014

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	479.95 ton	As-is		11.4	15,200.00	2,400.00	23,900.00		7.30
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		4.50 172.80 21.60 147.60				0.00			
Total actual harvest content		6.08 184.69 29.16 290.40				785.88			

I405

Field name: I405

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I405

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 76 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.00	0.00	0.00	0.00	0.00

Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)

Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

I406

Field name: I406

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 75 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.00	0.00	0.00	0.00	0.00

Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)

Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

I407

Field name: I407

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I407

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 77 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.00	0.00	0.00		0.00
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		4.50 172.80 21.60 147.60				0.00			
Total actual harvest content		0.00 0.00 0.00 0.00				0.00			

I408

Field name: I408

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 75 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.00	0.00	0.00		0.00
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		4.50 172.80 21.60 147.60				0.00			
Total actual harvest content		0.00 0.00 0.00 0.00				0.00			

I409

Field name: I409

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I409

11/04/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 79      Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/15/2023	518.39 ton	As-is		54.2	9,200.00	1,700.00	15,900.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	6.56	120.74	22.31	208.67	649.16

05/08/2023: Corn, silage

Crop: Corn, silage      Acres planted: 79      Plant date: 05/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/23/2023	2,005.34 ton	As-is		62.4	3,800.00	900.00	5,200.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	25.38	192.92	45.69	263.99	1,851.61

I410

Field name: I410

11/04/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 72      Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/15/2023	536.35 ton	As-is		56.6	9,800.00	1,800.00	15,700.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	7.45	146.01	26.82	233.91	847.05

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I410

05/03/2023: Corn, silage

Crop: Corn, silage      Acres planted: 72      Plant date: 05/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/22/2023	1,780.00 ton	As-is		52.2	4,900.00	900.00	4,700.00		5.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	24.72	242.28	44.50	232.39	1,252.63

I411

Field name: I411

11/04/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 72      Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/15/2023	537.80 ton	As-is		56.6	9,800.00	1,800.00	15,700.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	7.47	146.40	26.89	234.54	849.34

05/03/2023: Corn, silage

Crop: Corn, silage      Acres planted: 72      Plant date: 05/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/22/2023	1,779.90 ton	As-is		52.2	4,900.00	900.00	4,700.00		5.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	24.72	242.26	44.50	232.38	1,252.56

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

I501

Field name: I501

01/01/2020: Almond, in shell

Crop: Almond, in shell      Acres planted: 75      Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

I502

Field name: I502

01/01/2020: Almond, in shell

Crop: Almond, in shell      Acres planted: 77      Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 ton	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

I503

Field name: I503

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

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

I503

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 75 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.10 ton	As-is		0.1	0.00	0.00	0.00	0.00	0.00

Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)

Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

I504

Field name: I504

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 76 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.10 ton	As-is		0.1	0.00	0.00	0.00	0.00	0.00

Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)

Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

I505

Field name: I505

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

I505

11/08/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 77      Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,222.83 ton	As-is		57.3	9,200.00	1,800.00	15,300.00		11.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	15.88	292.21	57.17	485.96	1,613.91

06/26/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/03/2023	1,441.71 ton	As-is		52.4	5,000.00	900.00	4,000.00		5.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	243.60	39.20	184.80	0.00
Total actual harvest content	18.72	187.24	33.70	149.79	891.24

I506

Field name: I506

11/08/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 100      Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,056.05 ton	As-is		58.7	12,900.00	2,800.00	22,000.00		16.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	17.00	188.70	28.90	141.10	0.00
Total actual harvest content	10.56	272.46	59.14	464.66	1,439.29

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I506

06/15/2023: Tomato

Crop: Tomato      Acres planted: 100      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 (%)
10/19/2023	4,453.90 ton	As-is		94.1	1,200.00	200.00	1,800.00		11.80
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		60.00 186.00 30.00 294.00				0.00			
Total actual harvest content		44.54 106.89 17.82 160.34				620.16			

I507

Field name: I507

11/08/2022: Rye Grass Silage

Crop: Rye Grass Silage      Acres planted: 77      Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,077.54 ton	As-is		61.2	9,800.00	1,700.00	14,000.00		13.70
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		17.00 188.70 28.90 141.10				0.00			
Total actual harvest content		13.99 274.28 47.58 391.83				1,487.73			

06/27/2023: Corn, silage

Crop: Corn, silage      Acres planted: 77      Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/04/2023	1,488.19 ton	As-is		48.2	5,300.00	800.00	6,000.00		6.10
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		28.00 243.60 39.20 184.80				0.00			
Total actual harvest content		19.33 204.87 30.92 231.93				1,221.40			

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

I701

Field name: I701

09/30/2016: Almond, in shell

Crop: Almond, in shell      Acres planted: 50      Plant date: 09/30/2016

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	219.43 ton	As-is		7.7	13,500.00	2,400.00	22,400.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	4.39	118.49	21.07	196.61	534.69

I801

Field name: I801

01/01/2018: Almond, in shell

Crop: Almond, in shell      Acres planted: 82      Plant date: 01/01/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/13/2023	334.91 ton	As-is		4.9	12,600.00	2,100.00	21,600.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	172.80	21.60	147.60	0.00
Total actual harvest content	4.08	102.92	17.15	176.44	528.24

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

I101 - 01/01/2018: Almond, in shell

Field name: I101

Crop: Almond, in shell

Plant date: 01/01/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
IFF Dom #76	Ground water	2.67	0.00	0.00	980.79	1,533,000.00 gal
Application event totals		82.67	0.00	0.00	980.79	
05/08/2023	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
IFF Dom #76	Ground water	2.92	0.00	0.00	1,074.84	1,680,000.00 gal
Application event totals		2.92	0.00	0.00	1,074.84	
06/05/2023	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
IFF Dom #76	Ground water	3.10	0.00	0.00	1,142.01	1,785,000.00 gal
Application event totals		3.10	0.00	0.00	1,142.01	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF Dom #76	Ground water	3.32	0.00	0.00	1,222.63	1,911,000.00 gal
Application event totals		3.32	0.00	0.00	1,222.63	
08/07/2023	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
IFF Dom #76	Ground water	3.91	0.00	0.00	1,437.59	2,247,000.00 gal
Application event totals		3.91	0.00	0.00	1,437.59	

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I101 - 01/01/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF Dom #76	Ground water	2.81	0.00	0.00	1,034.53	1,617,000.00 gal
Application event totals		2.81	0.00	0.00	1,034.53	
10/02/2023	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
IFF Dom #76	Ground water	2.23	0.00	0.00	819.56	1,281,000.00 gal
Application event totals		2.23	0.00	0.00	819.56	

I102 - 10/01/2022: Rye Grass Silage

Field name: I102

Crop: Rye Grass Silage Plant date: 10/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/23/2022	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
Wastewater	Process wastewater	140.65	25.67	140.38	1,289.07	1,440,000.00 gal
IFF 68	Ground water	25.47	0.00	0.00	1,004.47	2,730,000.00 gal
Application event totals		166.13	25.67	140.38	2,293.55	
01/27/2023	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
Wastewater	Process wastewater	66.19	22.06	173.53	1,060.00	1,035,000.00 gal
IFF 68	Ground water	18.22	0.00	0.00	718.45	1,952,640.00 gal
Application event totals		84.41	22.06	173.53	1,778.46	

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## I102 - 10/01/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	80.46	15.09	85.21	7,881.93    1,170,000.00 gal
IFF 68	Ground water	20.80	0.00	0.00	820.18    2,229,120.00 gal
Application event totals		101.26	15.09	85.21	8,702.11

## I102 - 06/06/2023: Corn, silage

Field name: I102

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IFF 68	Ground water	6.77	0.00	0.00	267.04    725,760.00 gal
IFF 116 Reservoir	Ground water	3.93	0.00	0.00	281.99    2,520,000.00 gal
Application event totals		10.70	0.00	0.00	549.02
06/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00
Application event totals		20.00	0.00	0.00	0.00
06/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IFF 68	Ground water	5.32	0.00	0.00	209.81    570,240.00 gal
IFF 116 Reservoir	Ground water	3.09	0.00	0.00	221.56    1,980,000.00 gal
Application event totals		8.41	0.00	0.00	431.37

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I102 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	71.18	13.35	75.38	6,972.48	1,035,000.00 gal
IFF 68	Ground water	5.56	0.00	0.00	219.35	596,160.00 gal
IFF 116 Reservoir	Ground water	3.23	0.00	0.00	231.63	2,070,000.00 gal
Application event totals		79.97	13.35	75.38	7,423.46	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 68	Ground water	6.29	0.00	0.00	247.96	673,920.00 gal
IFF 116 Reservoir	Ground water	3.65	0.00	0.00	261.84	2,340,000.00 gal
Application event totals		9.94	0.00	0.00	509.80	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 68	Ground water	5.80	0.00	0.00	228.89	622,080.00 gal
IFF 116 Reservoir	Ground water	3.37	0.00	0.00	241.70	2,160,000.00 gal
Application event totals		9.17	0.00	0.00	470.59	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	163.01	30.04	343.52	2,014.18	1,125,000.00 gal
IFF 68	Ground water	6.05	0.00	0.00	238.42	648,000.00 gal
IFF 116 Reservoir	Ground water	3.51	0.00	0.00	251.77	2,250,000.00 gal
Application event totals		172.57	30.04	343.52	2,504.38	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 68	Ground water	5.16	0.00	0.00	203.46	552,960.00 gal
IFF 116 Reservoir	Ground water	2.99	0.00	0.00	214.85	1,920,000.00 gal
Application event totals		8.15	0.00	0.00	418.30	

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I102 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 68	Ground water	4.84	0.00	0.00	190.74	518,400.00 gal
IFF 116 Reservoir	Ground water	2.81	0.00	0.00	201.42	1,800,000.00 gal
Application event totals		7.64	0.00	0.00	392.16	
09/16/2023	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
IFF 68	Ground water	4.35	0.00	0.00	171.67	466,560.00 gal
IFF 116 Reservoir	Ground water	2.53	0.00	0.00	181.28	1,620,000.00 gal
Application event totals		6.88	0.00	0.00	352.94	

I103 - 10/20/2022: Rye Grass Silage

Field name: I103

Crop: Rye Grass Silage

Plant date: 10/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/18/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	163.38	29.82	163.06	1,497.39	9,504,000.00 gal
IFF 13	Ground water	11.08	0.00	0.00	489.95	8,339,760.00 gal
IFF 14	Ground water	26.12	0.00	0.00	666.21	7,920,000.00 gal
IFF 116 Reservoir	Ground water	2.17	0.00	0.00	155.98	7,920,000.00 gal
Application event totals		202.75	29.82	163.06	2,809.53	

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## I103 - 10/20/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/12/2023	Surface (irrigation)	Light rain	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	77.80	25.93	203.96	1,245.90	6,912,000.00 gal
IFF 13	Ground water	8.06	0.00	0.00	356.33	6,065,280.00 gal
IFF 14	Ground water	19.00	0.00	0.00	484.52	5,760,000.00 gal
IFF 116 Reservoir	Ground water	1.58	0.00	0.00	113.44	5,760,000.00 gal
Application event totals		106.43	25.93	203.96	2,200.19	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	88.89	16.67	94.13	8,707.47	7,344,000.00 gal
IFF 13	Ground water	8.56	0.00	0.00	378.60	6,444,360.00 gal
IFF 14	Ground water	20.18	0.00	0.00	514.80	6,120,000.00 gal
IFF 116 Reservoir	Ground water	1.68	0.00	0.00	120.53	6,120,000.00 gal
Application event totals		119.31	16.67	94.13	9,721.40	

## I103 - 06/20/2023: Corn, silage

Field name: I103

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 13	Ground water	8.65	0.00	0.00	382.31	6,507,540.00 gal
IFF 14	Ground water	20.38	0.00	0.00	519.85	6,180,000.00 gal
IFF 116 Reservoir	Ground water	1.70	0.00	0.00	121.71	6,180,000.00 gal
Application event totals		30.72	0.00	0.00	1,023.87	

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I103 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/20/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
Application event totals		20.00	0.00	0.00	0.00	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 116 Reservoir	Ground water	4.07	0.00	0.00	291.87	14,820,000.00 gal
Application event totals		4.07	0.00	0.00	291.87	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	73.45	13.54	154.78	907.51	2,880,000.00 gal
IFF 116 Reservoir	Ground water	4.23	0.00	0.00	303.68	15,420,000.00 gal
Application event totals		77.68	13.54	154.78	1,211.19	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 116 Reservoir	Ground water	4.76	0.00	0.00	341.50	17,340,000.00 gal
Application event totals		4.76	0.00	0.00	341.50	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	76.89	14.17	162.03	950.05	3,015,000.00 gal
IFF 13	Ground water	11.16	0.00	0.00	493.66	8,402,940.00 gal
IFF 116 Reservoir	Ground water	2.19	0.00	0.00	157.16	7,980,000.00 gal
Application event totals		90.24	14.17	162.03	1,600.87	

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

I103 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 13	Ground water	12.17	0.00	0.00	538.20	9,161,100.00 gal
IFF 116 Reservoir	Ground water	2.39	0.00	0.00	171.34	8,700,000.00 gal
Application event totals		14.56	0.00	0.00	709.54	
09/17/2023	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
IFF 116 Reservoir	Ground water	3.13	0.00	0.00	224.51	11,400,000.00 gal
Application event totals		3.13	0.00	0.00	224.51	

I104 - 10/01/2022: Rye Grass Silage

Field name: I104

Crop: Rye Grass Silage

Plant date: 10/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/26/2022	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
Wastewater	Process wastewater	156.30	28.53	155.99	1,432.45	7,128,000.00 gal
IFF 10	Ground water	3.82	0.00	0.00	358.62	11,796,840.00 gal
IFF 63	Ground water	20.72	0.00	0.00	665.18	5,007,420.00 gal
Application event totals		180.84	28.53	155.99	2,456.25	
01/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	74.43	24.81	195.11	1,191.87	5,184,000.00 gal
IFF 10	Ground water	2.78	0.00	0.00	260.81	8,579,520.00 gal
IFF 63	Ground water	15.07	0.00	0.00	483.77	3,641,760.00 gal
Application event totals		92.27	24.81	195.11	1,936.45	

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## I104 - 10/01/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/02/2023	Surface (irrigation)	Light rain	No precipitation		Light rain
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	81.66	27.22	214.08	1,307.75
IFF 10	Ground water	3.05	0.00	0.00	286.17
IFF 63	Ground water	16.54	0.00	0.00	530.80
Application event totals		101.24	27.22	214.08	2,124.72

## I104 - 05/27/2023: Tomato

Field name: I104

Crop: Tomato

Plant date: 05/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/03/2023	Broadcast/incorporate	No precipitation	Light rain		Light rain
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Separator Solids	Separator solids	122.63	17.95	53.84	10,991.70
Application event totals		122.63	17.95	53.84	10,991.70
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)
IFF 10	Ground water	1.93	0.00	0.00	181.12
IFF 63	Ground water	10.47	0.00	0.00	335.95
IFF 116 Reservoir	Ground water	1.05	0.00	0.00	75.36
Application event totals		13.44	0.00	0.00	592.43
06/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IFF 10	Ground water	2.31	0.00	0.00	217.35
IFF 116 Reservoir	Ground water	1.26	0.00	0.00	90.43
Application event totals		3.57	0.00	0.00	307.78

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I104 - 05/27/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/17/2023	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
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
IFF 10	Ground water	2.51	0.00	0.00	235.46	7,745,400.00 gal
IFF 116 Reservoir	Ground water	1.36	0.00	0.00	97.97	3,900,000.00 gal
Application event totals		33.87	0.00	0.00	333.43	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	2.16	0.00	0.00	202.86	6,672,960.00 gal
IFF 116 Reservoir	Ground water	1.18	0.00	0.00	84.40	3,360,000.00 gal
Application event totals		3.34	0.00	0.00	287.26	
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
IFF 10	Ground water	2.04	0.00	0.00	191.99	6,315,480.00 gal
IFF 116 Reservoir	Ground water	1.11	0.00	0.00	79.88	3,180,000.00 gal
Application event totals		3.16	0.00	0.00	271.87	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	1.85	0.00	0.00	173.88	5,719,680.00 gal
IFF 116 Reservoir	Ground water	1.01	0.00	0.00	72.35	2,880,000.00 gal
Application event totals		2.86	0.00	0.00	246.22	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	1.77	0.00	0.00	166.63	5,481,360.00 gal
IFF 116 Reservoir	Ground water	0.97	0.00	0.00	69.33	2,760,000.00 gal
Application event totals		2.74	0.00	0.00	235.96	

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I104 - 05/27/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	1.20	0.00	0.00	112.30	3,693,960.00 gal
IFF 116 Reservoir	Ground water	0.65	0.00	0.00	46.72	1,860,000.00 gal
Application event totals		1.85	0.00	0.00	159.02	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	1.04	0.00	0.00	97.81	3,217,320.00 gal
IFF 116 Reservoir	Ground water	0.57	0.00	0.00	40.69	1,620,000.00 gal
Application event totals		1.61	0.00	0.00	138.50	

I105 - 10/01/2022: Rye Grass Silage

Field name: I105

Crop: Rye Grass Silage

Plant date: 10/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/29/2022	Surface (irrigation)	No precipitation	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	132.81	24.24	132.56	1,217.24	5,130,000.00 gal
IFF 28	Ground water	1.47	0.00	0.00	558.78	9,110,880.00 gal
IFF 65	Ground water	12.67	0.00	0.00	505.98	4,617,000.00 gal
Application event totals		146.95	24.24	132.56	2,282.00	
02/01/2023	Surface (irrigation)	No precipitation	No precipitation	Light rain		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	90.52	30.17	237.31	1,449.62	5,340,000.00 gal
IFF 28	Ground water	1.14	0.00	0.00	434.60	7,086,240.00 gal
IFF 65	Ground water	9.86	0.00	0.00	393.54	3,591,000.00 gal
Application event totals		101.52	30.17	237.31	2,277.76	

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## I105 - 10/01/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	104.99	19.69	111.19	10,285.22
IFF 28	Ground water	1.23	0.00	0.00	470.55
IFF 65	Ground water	10.67	0.00	0.00	426.09
Application event totals		116.90	19.69	111.19	11,181.86

## I105 - 06/07/2023: Corn, silage

Field name: I105

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IFF 28	Ground water	0.93	0.00	0.00	352.91
IFF 65	Ground water	8.00	0.00	0.00	319.57
IFF 116 Reservoir	Ground water	2.68	0.00	0.00	192.20
Application event totals		11.61	0.00	0.00	864.68
06/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00
Application event totals		20.00	0.00	0.00	0.00
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	68.90	12.92	72.97	6,749.68
IFF 28	Ground water	1.08	0.00	0.00	411.73
IFF 116 Reservoir	Ground water	3.12	0.00	0.00	224.23
Application event totals		73.11	12.92	72.97	7,385.64

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I105 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 28	Ground water	1.01	0.00	0.00	385.59	6,287,040.00 gal
IFF 116 Reservoir	Ground water	2.93	0.00	0.00	209.99	7,080,000.00 gal
Application event totals		3.94	0.00	0.00	595.58	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 28	Ground water	0.72	0.00	0.00	274.49	4,475,520.00 gal
IFF 65	Ground water	6.23	0.00	0.00	248.55	2,268,000.00 gal
IFF 116 Reservoir	Ground water	2.08	0.00	0.00	149.49	5,040,000.00 gal
Application event totals		9.03	0.00	0.00	672.53	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	115.80	21.34	244.02	1,430.80	3,015,000.00 gal
IFF 28	Ground water	0.86	0.00	0.00	326.77	5,328,000.00 gal
IFF 116 Reservoir	Ground water	2.48	0.00	0.00	177.96	6,000,000.00 gal
Application event totals		119.13	21.34	244.02	1,935.53	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 28	Ground water	0.76	0.00	0.00	290.83	4,741,920.00 gal
IFF 116 Reservoir	Ground water	2.21	0.00	0.00	158.38	5,340,000.00 gal
Application event totals		2.97	0.00	0.00	449.21	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 28	Ground water	0.82	0.00	0.00	313.70	5,114,880.00 gal
IFF 116 Reservoir	Ground water	2.38	0.00	0.00	170.84	5,760,000.00 gal
Application event totals		3.20	0.00	0.00	484.54	

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## I106 - 10/01/2022: Rye Grass Silage

Field name: I106

Crop: Rye Grass Silage

Plant date: 10/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/02/2022	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	106.37	19.41	106.16	974.86	4,455,000.00 gal
IFF 10	Ground water	4.16	0.00	0.00	390.50	11,796,840.00 gal
IFF 63	Ground water	22.56	0.00	0.00	724.31	5,007,420.00 gal
Application event totals		133.09	19.41	106.16	2,089.67	
02/06/2023	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	56.98	18.99	149.38	912.53	3,645,000.00 gal
IFF 10	Ground water	3.40	0.00	0.00	319.50	9,651,960.00 gal
IFF 63	Ground water	18.46	0.00	0.00	592.61	4,096,980.00 gal
Application event totals		78.85	18.99	149.38	1,824.64	
03/29/2023	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	54.87	18.29	143.85	878.73	3,510,000.00 gal
IFF 10	Ground water	3.27	0.00	0.00	307.66	9,294,480.00 gal
IFF 63	Ground water	17.78	0.00	0.00	570.67	3,945,240.00 gal
Application event totals		75.93	18.29	143.85	1,757.06	

## I106 - 06/01/2023: Tomato

Field name: I106

Crop: Tomato

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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I106 - 06/01/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/08/2023	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
Separated Solids	Separator solids	113.21	16.57	49.70	10,147.41	1,170.00 ton
Application event totals		113.21	16.57	49.70	10,147.41	
05/20/2023	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
IFF 10	Ground water	1.97	0.00	0.00	185.39	5,600,520.00 gal
IFF 28	Ground water	0.37	0.00	0.00	141.64	2,504,160.00 gal
IFF 116 Reservoir	Ground water	1.07	0.00	0.00	77.14	2,820,000.00 gal
Application event totals		3.42	0.00	0.00	404.16	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	1.93	0.00	0.00	181.44	5,481,360.00 gal
IFF 116 Reservoir	Ground water	1.05	0.00	0.00	75.49	2,760,000.00 gal
Application event totals		2.98	0.00	0.00	256.94	
06/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
IFF 10	Ground water	2.06	0.00	0.00	193.28	5,838,840.00 gal
IFF 116 Reservoir	Ground water	1.12	0.00	0.00	80.42	2,940,000.00 gal
Application event totals		33.18	0.00	0.00	273.69	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 28	Ground water	0.58	0.00	0.00	223.00	3,942,720.00 gal
IFF 116 Reservoir	Ground water	1.69	0.00	0.00	121.45	4,440,000.00 gal
Application event totals		2.28	0.00	0.00	344.45	

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I106 - 06/01/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	2.18	0.00	0.00	205.11	6,196,320.00 gal
IFF 116 Reservoir	Ground water	1.19	0.00	0.00	85.34	3,120,000.00 gal
Application event totals		3.37	0.00	0.00	290.45	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 10	Ground water	1.97	0.00	0.00	185.39	5,600,520.00 gal
IFF 116 Reservoir	Ground water	1.07	0.00	0.00	77.14	2,820,000.00 gal
Application event totals		3.05	0.00	0.00	262.52	
08/18/2023	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
IFF 10	Ground water	1.85	0.00	0.00	173.55	5,243,040.00 gal
IFF 116 Reservoir	Ground water	1.01	0.00	0.00	72.21	2,640,000.00 gal
Application event totals		2.85	0.00	0.00	245.77	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 28	Ground water	0.46	0.00	0.00	174.79	3,090,240.00 gal
IFF 116 Reservoir	Ground water	1.33	0.00	0.00	95.19	3,480,000.00 gal
Application event totals		1.78	0.00	0.00	269.97	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 28	Ground water	0.42	0.00	0.00	159.72	2,823,840.00 gal
IFF 116 Reservoir	Ground water	1.21	0.00	0.00	86.98	3,180,000.00 gal
Application event totals		1.63	0.00	0.00	246.70	

I1102 - 10/03/2022: Rye Grass Silage

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

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

I1102 - 10/03/2022: Rye Grass Silage

Field name: I1102

Crop: Rye Grass Silage

Plant date: 10/03/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/13/2022	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
Corral Solids	Corral solids	271.02	84.63	313.87	0.00	160.00 ton
Application event totals		271.02	84.63	313.87	0.00	
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
TID 18	Ground water	2.46	0.00	0.00	220.89	1,822,500.00 gal
TID 97 Reservoir	Ground water	1.64	0.00	0.00	146.78	2,280,000.00 gal
Application event totals		4.10	0.00	0.00	367.67	
01/29/2023	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
TID 18	Ground water	1.77	0.00	0.00	159.04	1,312,200.00 gal
TID 97 Reservoir	Ground water	1.18	0.00	0.00	105.68	1,641,600.00 gal
Application event totals		2.95	0.00	0.00	264.72	
04/08/2023	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
TID 18	Ground water	2.17	0.00	0.00	194.38	1,603,800.00 gal
TID 97 Reservoir	Ground water	1.44	0.00	0.00	129.16	2,006,400.00 gal
Application event totals		3.61	0.00	0.00	323.55	

I1102 - 06/23/2023: Corn, silage

Field name: I1102

Crop: Corn, silage

Plant date: 06/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**Annual Report - General Order No. R5-2007-0035**

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

I1102 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	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
Corral Solids	Corral solids	209.17	59.92	246.22	5,763.18	158.00 ton
Application event totals		209.17	59.92	246.22	5,763.18	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.97	0.00	0.00	176.71	1,458,000.00 gal
TID 97 Reservoir	Ground water	1.31	0.00	0.00	117.42	1,824,000.00 gal
Application event totals		3.28	0.00	0.00	294.13	
06/23/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.58	0.00	0.00	141.37	1,166,400.00 gal
TID 97 Reservoir	Ground water	1.05	0.00	0.00	93.94	1,459,200.00 gal
Application event totals		2.63	0.00	0.00	235.31	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.67	0.00	0.00	150.20	1,239,300.00 gal
TID 97 Reservoir	Ground water	1.12	0.00	0.00	99.81	1,550,400.00 gal
Application event totals		2.79	0.00	0.00	250.01	

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

I1102 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.48	0.00	0.00	132.53	1,093,500.00 gal
TID 97 Reservoir	Ground water	0.98	0.00	0.00	88.07	1,368,000.00 gal
Application event totals		2.46	0.00	0.00	220.60	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.77	0.00	0.00	159.04	1,312,200.00 gal
TID 97 Reservoir	Ground water	1.18	0.00	0.00	105.68	1,641,600.00 gal
Application event totals		2.95	0.00	0.00	264.72	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.63	0.00	0.00	145.79	1,202,850.00 gal
TID 97 Reservoir	Ground water	1.08	0.00	0.00	96.87	1,504,800.00 gal
Application event totals		2.71	0.00	0.00	242.66	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.53	0.00	0.00	136.95	1,129,950.00 gal
TID 97 Reservoir	Ground water	1.02	0.00	0.00	91.00	1,413,600.00 gal
Application event totals		2.54	0.00	0.00	227.95	
09/25/2023	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
TID 18	Ground water	1.48	0.00	0.00	132.53	1,093,500.00 gal
TID 97 Reservoir	Ground water	0.98	0.00	0.00	88.07	1,368,000.00 gal
Application event totals		2.46	0.00	0.00	220.60	

I1103 - 05/08/2023: Corn, silage

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

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

I1103 - 05/08/2023: Corn, silage

Field name: I1103

Crop: Corn, silage

Plant date: 05/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	2.07	0.00	0.00	185.55	2,624,400.00 gal
TID 97 Reservoir	Ground water	1.38	0.00	0.00	123.29	3,283,200.00 gal
Application event totals		3.45	0.00	0.00	308.84	
04/20/2023	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
Corral Solids	Corral solids	208.51	59.73	245.44	5,744.94	270.00 ton
Application event totals		208.51	59.73	245.44	5,744.94	
05/08/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.90	0.00	0.00	170.08	2,405,700.00 gal
TID 97 Reservoir	Ground water	1.26	0.00	0.00	113.02	3,009,600.00 gal
Application event totals		3.16	0.00	0.00	283.10	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.98	0.00	0.00	177.82	2,515,050.00 gal
TID 97 Reservoir	Ground water	1.32	0.00	0.00	118.16	3,146,400.00 gal
Application event totals		3.30	0.00	0.00	295.97	

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

I1103 - 05/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.81	0.00	0.00	162.35	2,296,350.00 gal
TID 97 Reservoir	Ground water	1.21	0.00	0.00	107.88	2,872,800.00 gal
Application event totals		3.02	0.00	0.00	270.23	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.67	0.00	0.00	149.47	2,114,100.00 gal
TID 97 Reservoir	Ground water	1.11	0.00	0.00	99.32	2,644,800.00 gal
Application event totals		2.78	0.00	0.00	248.79	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.49	0.00	0.00	134.01	1,895,400.00 gal
TID 97 Reservoir	Ground water	0.99	0.00	0.00	89.04	2,371,200.00 gal
Application event totals		2.49	0.00	0.00	223.05	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.21	0.00	0.00	108.24	1,530,900.00 gal
TID 97 Reservoir	Ground water	0.80	0.00	0.00	71.92	1,915,200.00 gal
Application event totals		2.01	0.00	0.00	180.16	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.09	0.00	0.00	97.93	1,385,100.00 gal
TID 97 Reservoir	Ground water	0.73	0.00	0.00	65.07	1,732,800.00 gal
Application event totals		1.82	0.00	0.00	163.00	

I1104 - 05/08/2023: Corn, silage

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

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

I1104 - 05/08/2023: Corn, silage

Field name: I1104

Crop: Corn, silage

Plant date: 05/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/22/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	208.93	59.85	245.93	5,756.55	248.00 ton
Application event totals		208.93	59.85	245.93	5,756.55	
04/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	2.07	0.00	0.00	185.55	2,405,700.00 gal
TID 97 Reservoir	Ground water	1.38	0.00	0.00	123.29	3,009,600.00 gal
Application event totals		3.45	0.00	0.00	308.84	
05/08/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.75	0.00	0.00	157.43	2,041,200.00 gal
TID 97 Reservoir	Ground water	1.17	0.00	0.00	104.61	2,553,600.00 gal
Application event totals		2.92	0.00	0.00	262.05	
06/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	2.01	0.00	0.00	179.92	2,332,800.00 gal
TID 97 Reservoir	Ground water	1.34	0.00	0.00	119.56	2,918,400.00 gal
Application event totals		3.34	0.00	0.00	299.48	

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

I1104 - 05/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.69	0.00	0.00	151.81	1,968,300.00 gal
TID 97 Reservoir	Ground water	1.13	0.00	0.00	100.88	2,462,400.00 gal
Application event totals		2.82	0.00	0.00	252.69	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.44	0.00	0.00	129.32	1,676,700.00 gal
TID 97 Reservoir	Ground water	0.96	0.00	0.00	85.93	2,097,600.00 gal
Application event totals		2.40	0.00	0.00	215.25	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.57	0.00	0.00	140.57	1,822,500.00 gal
TID 97 Reservoir	Ground water	1.04	0.00	0.00	93.40	2,280,000.00 gal
Application event totals		2.61	0.00	0.00	233.97	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.35	0.00	0.00	120.89	1,567,350.00 gal
TID 97 Reservoir	Ground water	0.90	0.00	0.00	80.33	1,960,800.00 gal
Application event totals		2.25	0.00	0.00	201.21	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
TID 18	Ground water	1.32	0.00	0.00	118.08	1,530,900.00 gal
TID 97 Reservoir	Ground water	0.88	0.00	0.00	78.46	1,915,200.00 gal
Application event totals		2.19	0.00	0.00	196.53	

I1201 - 01/01/2009: Almond, in shell

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

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

I1201 - 01/01/2009: Almond, in shell

Field name: I1201

Crop: Almond, in shell

Plant date: 01/01/2009

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/19/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	100.89	34.08	180.40	0.00	456.00 ton
Application event totals		100.89	34.08	180.40	0.00	
04/05/2023	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
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
IFF 93	Ground water	1.04	0.00	0.00	179.08	10,729,680.00 gal
Application event totals		21.04	0.00	0.00	179.08	
05/10/2023	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
IFF 93	Ground water	1.29	0.00	0.00	223.60	13,397,280.00 gal
Application event totals		1.29	0.00	0.00	223.60	
06/07/2023	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
IFF 93	Ground water	1.43	0.00	0.00	247.35	14,820,000.00 gal
Application event totals		1.43	0.00	0.00	247.35	
07/05/2023	Shank	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
IFF 93	Ground water	1.59	0.00	0.00	275.05	16,479,840.00 gal
Application event totals		1.59	0.00	0.00	275.05	

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

I1201 - 01/01/2009: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 93	Ground water	1.68	0.00	0.00	290.88	17,428,320.00 gal
Application event totals		1.68	0.00	0.00	290.88	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 93	Ground water	1.24	0.00	0.00	213.71	12,804,480.00 gal
Application event totals		1.24	0.00	0.00	213.71	
10/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 93	Ground water	0.92	0.00	0.00	158.30	9,484,800.00 gal
Application event totals		0.92	0.00	0.00	158.30	

I1301 - 02/01/2013: Almond, in shell

Field name: I1301

Crop: Almond, in shell

Plant date: 02/01/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
IFF 112	Ground water	9.01	0.00	0.00	283.13	1,720,320.00 gal
Application event totals		29.01	0.00	0.00	283.13	
05/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 112	Ground water	11.62	0.00	0.00	364.98	2,217,600.00 gal
Application event totals		11.62	0.00	0.00	364.98	

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

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

I1301 - 02/01/2013: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 112	Ground water	12.96	0.00	0.00	407.00	2,472,960.00 gal
Application event totals		12.96	0.00	0.00	407.00	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 112	Ground water	14.50	0.00	0.00	455.67	2,768,640.00 gal
Application event totals		14.50	0.00	0.00	455.67	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 112	Ground water	15.56	0.00	0.00	488.85	2,970,240.00 gal
Application event totals		15.56	0.00	0.00	488.85	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 112	Ground water	11.20	0.00	0.00	351.71	2,136,960.00 gal
Application event totals		11.20	0.00	0.00	351.71	
10/05/2023	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
IFF 112	Ground water	7.82	0.00	0.00	245.53	1,491,840.00 gal
Application event totals		7.82	0.00	0.00	245.53	

I201 - 10/25/2022: Rye Grass Silage

Field name: I201

Crop: Rye Grass Silage

Plant date: 10/25/2022

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

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

I201 - 10/25/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/18/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	122.14	22.29	121.91	1,119.46	4,320,000.00 gal
IFF 88	Ground water	3.22	0.00	0.00	473.30	10,857,600.00 gal
IFF 98 Reservoir	Ground water	1.89	0.00	0.00	156.14	3,600,000.00 gal
Application event totals		127.25	22.29	121.91	1,748.90	
02/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	55.98	18.66	146.76	896.52	3,024,000.00 gal
IFF 88	Ground water	2.25	0.00	0.00	331.31	7,600,320.00 gal
IFF 98 Reservoir	Ground water	1.32	0.00	0.00	109.30	2,520,000.00 gal
Application event totals		59.56	18.66	146.76	1,337.12	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	70.23	13.17	74.38	6,879.93	3,528,000.00 gal
IFF 88	Ground water	2.63	0.00	0.00	386.53	8,867,040.00 gal
IFF 98 Reservoir	Ground water	1.54	0.00	0.00	127.51	2,940,000.00 gal
Application event totals		74.40	13.17	74.38	7,393.98	

I201 - 06/12/2023: Tomato

Field name: I201

Crop: Tomato

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

I201 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.93	0.00	0.00	283.98	6,514,560.00 gal
IFF 98 Reservoir	Ground water	1.13	0.00	0.00	93.68	2,160,000.00 gal
Application event totals		3.06	0.00	0.00	377.66	
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
IFF 88	Ground water	1.39	0.00	0.00	205.10	4,704,960.00 gal
IFF 98 Reservoir	Ground water	0.82	0.00	0.00	67.66	1,560,000.00 gal
Application event totals		2.21	0.00	0.00	272.76	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
IFF 88	Ground water	1.61	0.00	0.00	236.65	5,428,800.00 gal
IFF 98 Reservoir	Ground water	0.94	0.00	0.00	78.07	1,800,000.00 gal
Application event totals		82.55	0.00	0.00	314.72	
07/17/2023	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
IFF 88	Ground water	1.69	0.00	0.00	248.48	5,700,240.00 gal
IFF 98 Reservoir	Ground water	0.99	0.00	0.00	81.97	1,890,000.00 gal
Application event totals		2.68	0.00	0.00	330.46	
07/31/2023	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
IFF 88	Ground water	1.66	0.00	0.00	244.54	5,609,760.00 gal
IFF 98 Reservoir	Ground water	0.97	0.00	0.00	80.67	1,860,000.00 gal
Application event totals		2.64	0.00	0.00	325.21	

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

I201 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.72	0.00	0.00	252.43	5,790,720.00 gal
IFF 98 Reservoir	Ground water	1.01	0.00	0.00	83.27	1,920,000.00 gal
Application event totals		2.72	0.00	0.00	335.70	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.56	0.00	0.00	228.76	5,247,840.00 gal
IFF 98 Reservoir	Ground water	0.91	0.00	0.00	75.47	1,740,000.00 gal
Application event totals		2.47	0.00	0.00	304.23	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.29	0.00	0.00	189.32	4,343,040.00 gal
IFF 98 Reservoir	Ground water	0.75	0.00	0.00	62.46	1,440,000.00 gal
Application event totals		2.04	0.00	0.00	251.78	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.13	0.00	0.00	165.66	3,800,160.00 gal
IFF 98 Reservoir	Ground water	0.66	0.00	0.00	54.65	1,260,000.00 gal
Application event totals		1.79	0.00	0.00	220.30	

I202 - 09/16/2022: Rye Grass Silage

Field name: I202

Crop: Rye Grass Silage

Plant date: 09/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

## I202 - 09/16/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/14/2022	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
Wastewater	Process wastewater	156.01	28.47	155.70	1,429.80	5,445,000.00 gal
IFF Reservoir East	Ground water	1.09	0.00	0.00	22.80	9,757,440.00 gal
Application event totals		157.09	28.47	155.70	1,452.60	
01/16/2023	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	83.57	27.86	219.10	1,338.37	4,455,000.00 gal
IFF Reservoir East	Ground water	0.89	0.00	0.00	18.65	7,983,360.00 gal
Application event totals		84.46	27.86	219.10	1,357.03	
04/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	97.13	18.22	102.86	9,514.90	4,815,000.00 gal
IFF Reservoir East	Ground water	0.96	0.00	0.00	20.16	8,628,480.00 gal
Application event totals		98.09	18.22	102.86	9,535.06	

## I202 - 06/12/2023: Corn, silage

Field name: I202

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	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
IFF 47	Ground water	4.38	0.00	0.00	162.09	6,279,000.00 gal
IFF Reservoir East	Ground water	0.82	0.00	0.00	17.15	7,338,240.00 gal
Application event totals		5.20	0.00	0.00	179.23	

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I202 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	236.13	67.64	277.94	6,505.83	637.00 ton
Application event totals		236.13	67.64	277.94	6,505.83	
06/12/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.90	0.00	0.00	144.27	5,589,000.00 gal
IFF Reservoir East	Ground water	0.73	0.00	0.00	15.26	6,531,840.00 gal
Application event totals		4.63	0.00	0.00	159.54	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.66	0.00	0.00	135.37	5,244,000.00 gal
IFF Reservoir East	Ground water	0.68	0.00	0.00	14.32	6,128,640.00 gal
Application event totals		4.34	0.00	0.00	149.69	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF Reservoir East	Ground water	0.61	0.00	0.00	12.81	5,483,520.00 gal
IFF 47	Ground water	3.27	0.00	0.00	121.12	4,692,000.00 gal
Application event totals		3.88	0.00	0.00	133.93	

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I202 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.42	0.00	0.00	126.46	4,899,000.00 gal
IFF Reservoir East	Ground water	0.64	0.00	0.00	13.38	5,725,440.00 gal
Application event totals		4.05	0.00	0.00	139.84	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.13	0.00	0.00	115.78	4,485,000.00 gal
IFF Reservoir East	Ground water	0.58	0.00	0.00	12.25	5,241,600.00 gal
Application event totals		3.71	0.00	0.00	128.02	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.51	0.00	0.00	130.02	5,037,000.00 gal
IFF Reservoir East	Ground water	0.65	0.00	0.00	13.75	5,886,720.00 gal
Application event totals		4.17	0.00	0.00	143.78	

I203 - 09/16/2022: Rye Grass Silage

Field name: I203

Crop: Rye Grass Silage

Plant date: 09/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/18/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	114.99	20.99	114.77	1,053.91	1,980,000.00 gal
IFF 47	Ground water	7.51	0.00	0.00	278.00	5,313,000.00 gal
IFF 92	Ground water	5.63	0.00	0.00	268.84	1,386,000.00 gal
Application event totals		128.13	20.99	114.77	1,600.75	

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

I203 - 09/16/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	59.89	19.96	157.01	959.11	1,575,000.00 gal
IFF 47	Ground water	5.95	0.00	0.00	220.24	4,209,000.00 gal
IFF 92	Ground water	4.46	0.00	0.00	212.97	1,098,000.00 gal
Application event totals		70.30	19.96	157.01	1,392.32	
04/16/2023	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
Wastewater	Process wastewater	71.76	13.46	76.00	7,029.83	1,755,000.00 gal
IFF 47	Ground water	6.73	0.00	0.00	249.12	4,761,000.00 gal
IFF 92	Ground water	5.04	0.00	0.00	240.90	1,242,000.00 gal
Application event totals		83.54	13.46	76.00	7,519.85	

I203 - 06/06/2023: Corn, silage

Field name: I203

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/19/2023	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
Corral Solids	Corral solids	165.31	47.35	194.58	4,554.55	220.00 ton
Application event totals		165.31	47.35	194.58	4,554.55	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	6.73	0.00	0.00	249.12	4,761,000.00 gal
IFF 92	Ground water	5.04	0.00	0.00	240.90	1,242,000.00 gal
Application event totals		11.77	0.00	0.00	490.03	

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I203 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/06/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
06/17/2023	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
IFF 47	Ground water	5.95	0.00	0.00	220.24	4,209,000.00 gal
IFF 92	Ground water	4.46	0.00	0.00	212.97	1,098,000.00 gal
Application event totals		10.41	0.00	0.00	433.21	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	5.66	0.00	0.00	209.41	4,002,000.00 gal
IFF 92	Ground water	4.24	0.00	0.00	202.50	1,044,000.00 gal
Application event totals		9.90	0.00	0.00	411.91	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	6.24	0.00	0.00	231.07	4,416,000.00 gal
IFF 92	Ground water	4.68	0.00	0.00	223.45	1,152,000.00 gal
Application event totals		10.92	0.00	0.00	454.52	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	5.37	0.00	0.00	198.57	3,795,000.00 gal
IFF 92	Ground water	4.02	0.00	0.00	192.03	990,000.00 gal
Application event totals		9.39	0.00	0.00	390.60	

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I203 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	5.17	0.00	0.00	191.35	3,657,000.00 gal
IFF 92	Ground water	3.87	0.00	0.00	185.04	954,000.00 gal
Application event totals		9.04	0.00	0.00	376.40	
08/20/2023	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
IFF 47	Ground water	4.88	0.00	0.00	180.52	3,450,000.00 gal
IFF 92	Ground water	3.65	0.00	0.00	174.57	900,000.00 gal
Application event totals		8.53	0.00	0.00	355.09	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	4.59	0.00	0.00	169.69	3,243,000.00 gal
IFF 92	Ground water	3.43	0.00	0.00	164.09	846,000.00 gal
Application event totals		8.02	0.00	0.00	333.79	

I204 - 01/01/2004: Almond, in shell

Field name: I204

Crop: Almond, in shell

Plant date: 01/01/2004

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
Drying Solids	Separator solids	135.92	45.91	243.04	0.00	485.00 ton
Application event totals		135.92	45.91	243.04	0.00	

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

I204 - 01/01/2004: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
IFF 47	Ground water	2.74	0.00	0.00	101.53	3,933,000.00 gal
IFF Reservoir East	Ground water	0.51	0.00	0.00	10.74	4,596,480.00 gal
Application event totals		23.26	0.00	0.00	112.27	
05/08/2023	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
IFF 47	Ground water	3.08	0.00	0.00	113.99	4,416,000.00 gal
IFF Reservoir East	Ground water	0.57	0.00	0.00	12.06	5,160,960.00 gal
Application event totals		3.66	0.00	0.00	126.05	
06/05/2023	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
IFF 47	Ground water	3.75	0.00	0.00	138.93	5,382,000.00 gal
IFF Reservoir East	Ground water	0.70	0.00	0.00	14.70	6,289,920.00 gal
Application event totals		4.45	0.00	0.00	153.63	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	4.09	0.00	0.00	151.40	5,865,000.00 gal
IFF Reservoir East	Ground water	0.76	0.00	0.00	16.02	6,854,400.00 gal
Application event totals		4.85	0.00	0.00	167.41	
08/07/2023	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
IFF 47	Ground water	4.52	0.00	0.00	167.43	6,486,000.00 gal
IFF Reservoir East	Ground water	0.84	0.00	0.00	17.71	7,580,160.00 gal
Application event totals		5.37	0.00	0.00	185.14	

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

I204 - 01/01/2004: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.56	0.00	0.00	131.81	5,106,000.00 gal
IFF Reservoir East	Ground water	0.66	0.00	0.00	13.94	5,967,360.00 gal
Application event totals		4.23	0.00	0.00	145.75	
10/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	2.46	0.00	0.00	90.84	3,519,000.00 gal
IFF Reservoir East	Ground water	0.46	0.00	0.00	9.61	4,112,640.00 gal
Application event totals		2.91	0.00	0.00	100.45	

I205 - 10/25/2022: Rye Grass Silage

Field name: I205

Crop: Rye Grass Silage

Plant date: 10/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/21/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	125.84	22.97	125.59	1,153.29	4,392,000.00 gal
IFF 88	Ground water	3.32	0.00	0.00	487.60	11,038,560.00 gal
IFF 98 Reservoir	Ground water	1.94	0.00	0.00	160.86	3,660,000.00 gal
Application event totals		131.09	22.97	125.59	1,801.76	
02/15/2023	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
Wastewater	Process wastewater	59.43	19.81	155.80	951.73	3,168,000.00 gal
IFF 88	Ground water	2.39	0.00	0.00	351.71	7,962,240.00 gal
IFF 98 Reservoir	Ground water	1.40	0.00	0.00	116.03	2,640,000.00 gal
Application event totals		63.22	19.81	155.80	1,419.47	

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

## I205 - 10/25/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	72.62	13.62	76.91	7,113.95 3,600,000.00 gal
IFF 88	Ground water	2.72	0.00	0.00	399.68 9,048,000.00 gal
IFF 98 Reservoir	Ground water	1.59	0.00	0.00	131.85 3,000,000.00 gal
Application event totals		76.93	13.62	76.91	7,645.47

## I205 - 06/12/2023: Tomato

Field name: I205

Crop: Tomato

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IFF 88	Ground water	2.01	0.00	0.00	295.76 6,695,520.00 gal
IFF 98 Reservoir	Ground water	1.18	0.00	0.00	97.57 2,220,000.00 gal
Application event totals		3.19	0.00	0.00	393.33
06/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
IFF 88	Ground water	1.63	0.00	0.00	239.81 5,428,800.00 gal
IFF 98 Reservoir	Ground water	0.96	0.00	0.00	79.11 1,800,000.00 gal
Application event totals		2.59	0.00	0.00	318.92
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
25-0-0-5S	Liquid commercial fertilizer	80.00	0.00	0.00	0.00
IFF 88	Ground water	1.52	0.00	0.00	223.82 5,066,880.00 gal
IFF 98 Reservoir	Ground water	0.89	0.00	0.00	73.84 1,680,000.00 gal
Application event totals		82.41	0.00	0.00	297.66

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I205 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.74	0.00	0.00	255.79	5,790,720.00 gal
IFF 98 Reservoir	Ground water	1.02	0.00	0.00	84.38	1,920,000.00 gal
Application event totals		2.76	0.00	0.00	340.18	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.41	0.00	0.00	207.83	4,704,960.00 gal
IFF 98 Reservoir	Ground water	0.83	0.00	0.00	68.56	1,560,000.00 gal
Application event totals		2.24	0.00	0.00	276.39	
08/16/2023	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
IFF 88	Ground water	1.60	0.00	0.00	235.81	5,338,320.00 gal
IFF 98 Reservoir	Ground water	0.94	0.00	0.00	77.79	1,770,000.00 gal
Application event totals		2.54	0.00	0.00	313.60	
08/30/2023	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
IFF 88	Ground water	1.41	0.00	0.00	207.83	4,704,960.00 gal
IFF 98 Reservoir	Ground water	0.83	0.00	0.00	68.56	1,560,000.00 gal
Application event totals		2.24	0.00	0.00	276.39	
09/13/2023	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
IFF 88	Ground water	1.30	0.00	0.00	191.84	4,343,040.00 gal
IFF 98 Reservoir	Ground water	0.76	0.00	0.00	63.29	1,440,000.00 gal
Application event totals		2.07	0.00	0.00	255.13	

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I205 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.20	0.00	0.00	175.86	3,981,120.00 gal
IFF 98 Reservoir	Ground water	0.70	0.00	0.00	58.01	1,320,000.00 gal
Application event totals		1.90	0.00	0.00	233.87	

I206 - 09/16/2022: Rye Grass Silage

Field name: I206

Crop: Rye Grass Silage Plant date: 09/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/21/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	128.06	23.37	127.81	1,173.67	2,205,000.00 gal
IFF Reservoir East	Ground water	1.33	0.00	0.00	27.88	5,886,720.00 gal
Application event totals		129.39	23.37	127.81	1,201.55	
01/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	59.89	19.96	157.01	959.11	1,575,000.00 gal
IFF Reservoir East	Ground water	0.96	0.00	0.00	20.24	4,273,920.00 gal
Application event totals		60.86	19.96	157.01	979.35	
03/25/2023	Surface (irrigation)	No precipitation	No precipitation		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	70.16	23.39	183.93	1,123.53	1,845,000.00 gal
IFF Reservoir East	Ground water	1.11	0.00	0.00	23.30	4,919,040.00 gal
Application event totals		71.27	23.39	183.93	1,146.83	

I206 - 06/20/2023: Corn, silage

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

I206 - 06/20/2023: Corn, silage

Field name: I206

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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
Corral Solids	Corral solids	209.64	60.05	246.76	5,775.99	279.00 ton
Application event totals		209.64	60.05	246.76	5,775.99	
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
IFF 47	Ground water	4.20	0.00	0.00	155.25	2,967,000.00 gal
IFF Reservoir East	Ground water	0.78	0.00	0.00	16.42	3,467,520.00 gal
Application event totals		4.98	0.00	0.00	171.67	
06/20/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
06/25/2023	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
IFF 47	Ground water	3.90	0.00	0.00	144.42	2,760,000.00 gal
IFF Reservoir East	Ground water	0.73	0.00	0.00	15.28	3,225,600.00 gal
Application event totals		4.63	0.00	0.00	159.70	
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
IFF 47	Ground water	3.61	0.00	0.00	133.59	2,553,000.00 gal
IFF Reservoir East	Ground water	0.67	0.00	0.00	14.13	2,983,680.00 gal
Application event totals		4.28	0.00	0.00	147.72	

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I206 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.81	0.00	0.00	140.81	2,691,000.00 gal
IFF Reservoir East	Ground water	0.71	0.00	0.00	14.90	3,144,960.00 gal
Application event totals		4.51	0.00	0.00	155.70	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.42	0.00	0.00	126.37	2,415,000.00 gal
IFF Reservoir East	Ground water	0.64	0.00	0.00	13.37	2,822,400.00 gal
Application event totals		4.05	0.00	0.00	139.73	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.02	0.00	0.00	111.92	2,139,000.00 gal
IFF Reservoir East	Ground water	0.56	0.00	0.00	11.84	2,499,840.00 gal
Application event totals		3.59	0.00	0.00	123.76	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.32	0.00	0.00	122.76	2,346,000.00 gal
IFF Reservoir East	Ground water	0.62	0.00	0.00	12.99	2,741,760.00 gal
Application event totals		3.94	0.00	0.00	135.74	

I207 - 01/01/2005: Almond, in shell

Field name: I207

Crop: Almond, in shell

Plant date: 01/01/2005

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

I207 - 01/01/2005: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/19/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	136.49	46.10	244.06	0.00	513.00 ton
Application event totals		136.49	46.10	244.06	0.00	
04/05/2023	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
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
IFF 47	Ground water	2.83	0.00	0.00	104.84	4,278,000.00 gal
IFF Reservoir East	Ground water	0.53	0.00	0.00	11.09	4,999,680.00 gal
Application event totals		23.36	0.00	0.00	115.93	
05/10/2023	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
IFF 47	Ground water	3.20	0.00	0.00	118.37	4,830,000.00 gal
IFF Reservoir East	Ground water	0.60	0.00	0.00	12.52	5,644,800.00 gal
Application event totals		3.80	0.00	0.00	130.89	
06/07/2023	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
IFF 47	Ground water	3.70	0.00	0.00	136.97	5,589,000.00 gal
IFF Reservoir East	Ground water	0.69	0.00	0.00	14.49	6,531,840.00 gal
Application event totals		4.39	0.00	0.00	151.46	
07/05/2023	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
IFF 47	Ground water	4.16	0.00	0.00	153.88	6,279,000.00 gal
IFF Reservoir East	Ground water	0.78	0.00	0.00	16.28	7,338,240.00 gal
Application event totals		4.93	0.00	0.00	170.16	

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I207 - 01/01/2005: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	4.43	0.00	0.00	164.02	6,693,000.00 gal
IFF Reservoir East	Ground water	0.83	0.00	0.00	17.35	7,822,080.00 gal
Application event totals		5.26	0.00	0.00	181.38	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	3.38	0.00	0.00	125.13	5,106,000.00 gal
IFF Reservoir East	Ground water	0.63	0.00	0.00	13.24	5,967,360.00 gal
Application event totals		4.01	0.00	0.00	138.37	
10/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 47	Ground water	2.38	0.00	0.00	87.93	3,588,000.00 gal
IFF Reservoir East	Ground water	0.44	0.00	0.00	9.30	4,193,280.00 gal
Application event totals		2.82	0.00	0.00	97.23	

I208 - 11/10/2022: Rye Grass Silage

Field name: I208

Crop: Rye Grass Silage

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Broadcast/incorporate	No precipitation	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	313.68	97.95	363.27	0.00	679.00 ton
Application event totals		313.68	97.95	363.27	0.00	

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## I208 - 11/10/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/15/2022	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 38	Ground water	11.71	0.00	0.00	639.37	6,210,000.00 gal
IFF 98 Reservoir	Ground water	3.57	0.00	0.00	295.38	6,900,000.00 gal
Application event totals		15.28	0.00	0.00	934.75	
02/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 38	Ground water	9.27	0.00	0.00	505.93	4,914,000.00 gal
IFF 98 Reservoir	Ground water	2.82	0.00	0.00	233.74	5,460,000.00 gal
Application event totals		12.09	0.00	0.00	739.67	
03/30/2023	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
IFF 38	Ground water	12.53	0.00	0.00	683.85	6,642,000.00 gal
IFF 98 Reservoir	Ground water	3.82	0.00	0.00	315.93	7,380,000.00 gal
Application event totals		16.34	0.00	0.00	999.77	

## I208 - 06/12/2023: Tomato

Field name: I208

Crop: Tomato

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	127.45	36.51	150.02	3,511.63	353.00 ton
Application event totals		127.45	36.51	150.02	3,511.63	

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I208 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 38	Ground water	7.54	0.00	0.00	411.42	3,996,000.00 gal
IFF 98 Reservoir	Ground water	2.30	0.00	0.00	190.07	4,440,000.00 gal
Application event totals		9.83	0.00	0.00	601.49	
06/20/2023	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
IFF 38	Ground water	5.91	0.00	0.00	322.46	3,132,000.00 gal
IFF 98 Reservoir	Ground water	1.80	0.00	0.00	148.97	3,480,000.00 gal
Application event totals		7.71	0.00	0.00	471.44	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
IFF 88	Ground water	1.48	0.00	0.00	218.01	5,066,880.00 gal
IFF 98 Reservoir	Ground water	0.87	0.00	0.00	71.92	1,680,000.00 gal
Application event totals		42.35	0.00	0.00	289.92	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.80	0.00	0.00	264.72	6,152,640.00 gal
IFF 98 Reservoir	Ground water	1.05	0.00	0.00	87.33	2,040,000.00 gal
Application event totals		2.85	0.00	0.00	352.05	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.69	0.00	0.00	249.15	5,790,720.00 gal
IFF 98 Reservoir	Ground water	0.99	0.00	0.00	82.19	1,920,000.00 gal
Application event totals		2.69	0.00	0.00	331.34	

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I208 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/18/2023	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
IFF 88	Ground water	1.43	0.00	0.00	210.22	4,885,920.00 gal
IFF 98 Reservoir	Ground water	0.84	0.00	0.00	69.35	1,620,000.00 gal
Application event totals		2.27	0.00	0.00	279.57	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.59	0.00	0.00	233.58	5,428,800.00 gal
IFF 98 Reservoir	Ground water	0.93	0.00	0.00	77.06	1,800,000.00 gal
Application event totals		2.52	0.00	0.00	310.63	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.43	0.00	0.00	210.22	4,885,920.00 gal
IFF 98 Reservoir	Ground water	0.84	0.00	0.00	69.35	1,620,000.00 gal
Application event totals		2.27	0.00	0.00	279.57	
09/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.32	0.00	0.00	194.65	4,524,000.00 gal
IFF 98 Reservoir	Ground water	0.78	0.00	0.00	64.21	1,500,000.00 gal
Application event totals		2.10	0.00	0.00	258.86	

I209 - 01/01/2004: Almond, in shell

Field name: I209

Crop: Almond, in shell

Plant date: 01/01/2004

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

I209 - 01/01/2004: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/21/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	135.77	45.86	242.77	0.00	239.00 ton
Application event totals		135.77	45.86	242.77	0.00	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
IFF Reservoir East	Ground water	0.69	0.00	0.00	14.51	3,064,320.00 gal
IFF 1	Ground water	0.33	0.00	0.00	68.52	1,482,000.00 gal
Application event totals		21.03	0.00	0.00	83.04	
05/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 1	Ground water	0.36	0.00	0.00	73.93	1,599,000.00 gal
IFF Reservoir East	Ground water	0.75	0.00	0.00	15.66	3,306,240.00 gal
Application event totals		1.11	0.00	0.00	89.59	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 1	Ground water	0.40	0.00	0.00	82.95	1,794,000.00 gal
IFF Reservoir East	Ground water	0.84	0.00	0.00	17.57	3,709,440.00 gal
Application event totals		1.24	0.00	0.00	100.52	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 1	Ground water	0.45	0.00	0.00	91.96	1,989,000.00 gal
IFF Reservoir East	Ground water	0.93	0.00	0.00	19.48	4,112,640.00 gal
Application event totals		1.38	0.00	0.00	111.44	

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I209 - 01/01/2004: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 1	Ground water	0.47	0.00	0.00	97.37	2,106,000.00 gal
IFF Reservoir East	Ground water	0.98	0.00	0.00	20.62	4,354,560.00 gal
Application event totals		1.46	0.00	0.00	118.00	
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
IFF 1	Ground water	0.40	0.00	0.00	81.14	1,755,000.00 gal
IFF Reservoir East	Ground water	0.82	0.00	0.00	17.19	3,628,800.00 gal
Application event totals		1.21	0.00	0.00	98.33	
10/06/2023	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
IFF 1	Ground water	0.29	0.00	0.00	59.51	1,287,000.00 gal
IFF Reservoir East	Ground water	0.60	0.00	0.00	12.60	2,661,120.00 gal
Application event totals		0.89	0.00	0.00	72.11	

I212 - 11/10/2022: Rye Grass Silage

Field name: I212

Crop: Rye Grass Silage

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	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
Corral Solids	Corral solids	259.17	80.93	300.14	0.00	561.00 ton
Application event totals		259.17	80.93	300.14	0.00	

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## I212 - 11/10/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/19/2022	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
IFF 88	Ground water	3.49	0.00	0.00	513.87	11,943,360.00 gal
IFF 98 Reservoir	Ground water	2.05	0.00	0.00	169.52	3,960,000.00 gal
Application event totals		5.54	0.00	0.00	683.39	
02/05/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	2.59	0.00	0.00	381.51	8,867,040.00 gal
IFF 98 Reservoir	Ground water	1.52	0.00	0.00	125.86	2,940,000.00 gal
Application event totals		4.11	0.00	0.00	507.37	
04/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	2.97	0.00	0.00	436.01	10,133,760.00 gal
IFF 98 Reservoir	Ground water	1.74	0.00	0.00	143.84	3,360,000.00 gal
Application event totals		4.70	0.00	0.00	579.85	

## I212 - 06/12/2023: Tomato

Field name: I212

Crop: Tomato

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	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
Corral Solids	Corral solids	125.65	35.99	147.90	3,461.89	348.00 ton
Application event totals		125.65	35.99	147.90	3,461.89	

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I212 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	2.07	0.00	0.00	303.65	7,057,440.00 gal
IFF 98 Reservoir	Ground water	1.21	0.00	0.00	100.17	2,340,000.00 gal
Application event totals		3.27	0.00	0.00	403.82	
06/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.69	0.00	0.00	249.15	5,790,720.00 gal
IFF 98 Reservoir	Ground water	0.99	0.00	0.00	82.19	1,920,000.00 gal
Application event totals		2.69	0.00	0.00	331.34	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
IFF 88	Ground water	1.59	0.00	0.00	233.58	5,428,800.00 gal
IFF 98 Reservoir	Ground water	0.93	0.00	0.00	77.06	1,800,000.00 gal
Application event totals		42.52	0.00	0.00	310.63	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.75	0.00	0.00	256.93	5,971,680.00 gal
IFF 98 Reservoir	Ground water	1.02	0.00	0.00	84.76	1,980,000.00 gal
Application event totals		2.77	0.00	0.00	341.70	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.48	0.00	0.00	218.01	5,066,880.00 gal
IFF 98 Reservoir	Ground water	0.87	0.00	0.00	71.92	1,680,000.00 gal
Application event totals		2.35	0.00	0.00	289.92	

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I212 - 06/12/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.64	0.00	0.00	241.36	5,609,760.00 gal
IFF 98 Reservoir	Ground water	0.96	0.00	0.00	79.62	1,860,000.00 gal
Application event totals		2.60	0.00	0.00	320.99	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 88	Ground water	1.43	0.00	0.00	210.22	4,885,920.00 gal
IFF 98 Reservoir	Ground water	0.84	0.00	0.00	69.35	1,620,000.00 gal
Application event totals		2.27	0.00	0.00	279.57	
09/17/2023	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
IFF 88	Ground water	1.27	0.00	0.00	186.86	4,343,040.00 gal
IFF 98 Reservoir	Ground water	0.74	0.00	0.00	61.64	1,440,000.00 gal
Application event totals		2.02	0.00	0.00	248.51	
10/01/2023	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
IFF 88	Ground water	1.11	0.00	0.00	163.50	3,800,160.00 gal
IFF 98 Reservoir	Ground water	0.65	0.00	0.00	53.94	1,260,000.00 gal
Application event totals		1.76	0.00	0.00	217.44	

I213 - 01/01/2012: Almond, in shell

Field name: I213

Crop: Almond, in shell

Plant date: 01/01/2012

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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I213 - 01/01/2012: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/22/2022	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
Drying Solids	Separator solids	137.45	46.43	245.78	0.00	497.00 ton
Application event totals		137.45	46.43	245.78	0.00	
04/08/2023	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
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
IFF Reservoir East	Ground water	0.98	0.00	0.00	20.48	8,880,000.00 gal
Application event totals		20.98	0.00	0.00	20.48	
05/13/2023	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
IFF Reservoir East	Ground water	1.17	0.00	0.00	24.49	10,620,000.00 gal
Application event totals		1.17	0.00	0.00	24.49	
06/10/2023	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
IFF Reservoir East	Ground water	1.27	0.00	0.00	26.70	11,580,000.00 gal
Application event totals		1.27	0.00	0.00	26.70	
07/08/2023	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
IFF Reservoir East	Ground water	1.40	0.00	0.00	29.33	12,720,000.00 gal
Application event totals		1.40	0.00	0.00	29.33	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF Reservoir East	Ground water	1.54	0.00	0.00	32.37	14,040,000.00 gal
Application event totals		1.54	0.00	0.00	32.37	

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

I213 - 01/01/2012: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF Reservoir East	Ground water	1.19	0.00	0.00	25.04	10,860,000.00 gal
Application event totals		1.19	0.00	0.00	25.04	
10/07/2023	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
IFF Reservoir East	Ground water	0.81	0.00	0.00	17.02	7,380,000.00 gal
Application event totals		0.81	0.00	0.00	17.02	

I401 - 08/30/2015: Almond, in shell

Field name: I401

Crop: Almond, in shell

Plant date: 08/30/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/26/2022	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
Drying Solids	Separator solids	131.65	44.46	235.39	0.00	476.00 ton
Application event totals		131.65	44.46	235.39	0.00	
04/03/2023	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
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
IFF 20	Ground water	5.17	0.00	0.00	359.71	5,460,000.00 gal
IFF 96 Reservoir	Ground water	1.82	0.00	0.00	133.61	3,120,000.00 gal
Application event totals		36.99	0.00	0.00	493.32	

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I401 - 08/30/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 20	Ground water	6.07	0.00	0.00	421.97	6,405,000.00 gal
IFF 96 Reservoir	Ground water	2.13	0.00	0.00	156.73	3,660,000.00 gal
Application event totals		8.20	0.00	0.00	578.70	
06/05/2023	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
IFF 20	Ground water	7.16	0.00	0.00	498.06	7,560,000.00 gal
IFF 96 Reservoir	Ground water	2.51	0.00	0.00	185.00	4,320,000.00 gal
Application event totals		9.68	0.00	0.00	683.06	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 20	Ground water	7.96	0.00	0.00	553.41	8,400,000.00 gal
IFF 96 Reservoir	Ground water	2.79	0.00	0.00	205.55	4,800,000.00 gal
Application event totals		10.75	0.00	0.00	758.96	
08/07/2023	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
IFF 20	Ground water	8.46	0.00	0.00	587.99	8,925,000.00 gal
IFF 96 Reservoir	Ground water	2.97	0.00	0.00	218.40	5,100,000.00 gal
Application event totals		11.43	0.00	0.00	806.39	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 20	Ground water	6.67	0.00	0.00	463.48	7,035,000.00 gal
IFF 96 Reservoir	Ground water	2.34	0.00	0.00	172.15	4,020,000.00 gal
Application event totals		9.01	0.00	0.00	635.63	

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I401 - 08/30/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 20	Ground water	4.48	0.00	0.00	311.29	4,725,000.00 gal
IFF 96 Reservoir	Ground water	1.57	0.00	0.00	115.62	2,700,000.00 gal
Application event totals		6.05	0.00	0.00	426.91	

I402 - 08/30/2014: Almond, in shell

Field name: I402

Crop: Almond, in shell Plant date: 08/30/2014

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/28/2022	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
Drying Solids	Separator solids	130.64	44.12	233.59	0.00	491.00 ton
Application event totals		130.64	44.12	233.59	0.00	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
IFF 21	Ground water	2.56	0.00	0.00	240.00	6,190,800.00 gal
IFF 96 Reservoir	Ground water	2.25	0.00	0.00	165.61	4,020,000.00 gal
Application event totals		34.81	0.00	0.00	405.61	
05/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 21	Ground water	2.72	0.00	0.00	254.33	6,560,400.00 gal
IFF 96 Reservoir	Ground water	2.38	0.00	0.00	175.50	4,260,000.00 gal
Application event totals		5.10	0.00	0.00	429.83	

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I402 - 08/30/2014: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 21	Ground water	2.83	0.00	0.00	265.08	6,837,600.00 gal
IFF 96 Reservoir	Ground water	2.49	0.00	0.00	182.91	4,440,000.00 gal
Application event totals		5.32	0.00	0.00	447.99	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 21	Ground water	3.21	0.00	0.00	300.90	7,761,600.00 gal
IFF 96 Reservoir	Ground water	2.82	0.00	0.00	207.63	5,040,000.00 gal
Application event totals		6.04	0.00	0.00	508.53	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 21	Ground water	3.52	0.00	0.00	329.55	8,500,800.00 gal
IFF 96 Reservoir	Ground water	3.09	0.00	0.00	227.41	5,520,000.00 gal
Application event totals		6.61	0.00	0.00	556.96	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 21	Ground water	2.91	0.00	0.00	272.24	7,022,400.00 gal
IFF 96 Reservoir	Ground water	2.55	0.00	0.00	187.86	4,560,000.00 gal
Application event totals		5.46	0.00	0.00	460.10	
10/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 21	Ground water	2.10	0.00	0.00	197.02	5,082,000.00 gal
IFF 96 Reservoir	Ground water	1.85	0.00	0.00	135.95	3,300,000.00 gal
Application event totals		3.95	0.00	0.00	332.96	

I403 - 08/30/2015: Almond, in shell

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I403 - 08/30/2015: Almond, in shell

Field name: I403

Crop: Almond, in shell

Plant date: 08/30/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/29/2022	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
Drying Solids	Separator solids	105.36	35.59	188.40	0.00	396.00 ton
Application event totals		105.36	35.59	188.40	0.00	
04/07/2023	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
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
IFF 48	Ground water	7.74	0.00	0.00	237.18	5,346,000.00 gal
IFF 96 Reservoir	Ground water	1.81	0.00	0.00	133.48	3,240,000.00 gal
Application event totals		39.55	0.00	0.00	370.66	
05/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	10.32	0.00	0.00	316.24	7,128,000.00 gal
IFF 96 Reservoir	Ground water	2.42	0.00	0.00	177.97	4,320,000.00 gal
Application event totals		12.73	0.00	0.00	494.21	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	11.89	0.00	0.00	364.55	8,217,000.00 gal
IFF 96 Reservoir	Ground water	2.79	0.00	0.00	205.16	4,980,000.00 gal
Application event totals		14.68	0.00	0.00	569.71	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	14.04	0.00	0.00	430.44	9,702,000.00 gal
IFF 96 Reservoir	Ground water	3.29	0.00	0.00	242.24	5,880,000.00 gal
Application event totals		17.33	0.00	0.00	672.67	

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I403 - 08/30/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	12.75	0.00	0.00	390.91	8,811,000.00 gal
IFF 96 Reservoir	Ground water	2.99	0.00	0.00	219.99	5,340,000.00 gal
Application event totals		15.74	0.00	0.00	610.90	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	9.31	0.00	0.00	285.49	6,435,000.00 gal
IFF 96 Reservoir	Ground water	2.18	0.00	0.00	160.67	3,900,000.00 gal
Application event totals		11.50	0.00	0.00	446.16	
10/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	6.16	0.00	0.00	188.87	4,257,000.00 gal
IFF 96 Reservoir	Ground water	1.44	0.00	0.00	106.29	2,580,000.00 gal
Application event totals		7.61	0.00	0.00	295.15	

I404 - 08/30/2014: Almond, in shell

Field name: I404

Crop: Almond, in shell

Plant date: 08/30/2014

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/31/2022	Broadcast/incorporate	No precipitation	No precipitation		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	104.56	35.32	186.97	0.00	393.00 ton
Application event totals		104.56	35.32	186.97	0.00	

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I404 - 08/30/2014: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
IFF 48	Ground water	7.88	0.00	0.00	241.57	5,445,000.00 gal
IFF 96 Reservoir	Ground water	1.85	0.00	0.00	135.95	3,300,000.00 gal
Application event totals		39.73	0.00	0.00	377.52	
05/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	9.03	0.00	0.00	276.71	6,237,000.00 gal
IFF 96 Reservoir	Ground water	2.12	0.00	0.00	155.72	3,780,000.00 gal
Application event totals		11.14	0.00	0.00	432.43	
06/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	11.46	0.00	0.00	351.38	7,920,000.00 gal
IFF 96 Reservoir	Ground water	2.69	0.00	0.00	197.74	4,800,000.00 gal
Application event totals		14.15	0.00	0.00	549.12	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	12.46	0.00	0.00	382.12	8,613,000.00 gal
IFF 96 Reservoir	Ground water	2.92	0.00	0.00	215.05	5,220,000.00 gal
Application event totals		15.39	0.00	0.00	597.17	
08/13/2023	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
IFF 48	Ground water	13.75	0.00	0.00	421.65	9,504,000.00 gal
IFF 96 Reservoir	Ground water	3.22	0.00	0.00	237.29	5,760,000.00 gal
Application event totals		16.98	0.00	0.00	658.95	

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I404 - 08/30/2014: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 48	Ground water	11.18	0.00	0.00	342.59	7,722,000.00 gal
IFF 96 Reservoir	Ground water	2.62	0.00	0.00	192.80	4,680,000.00 gal
Application event totals		13.80	0.00	0.00	535.39	
10/08/2023	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
IFF 48	Ground water	7.31	0.00	0.00	224.00	5,049,000.00 gal
IFF 96 Reservoir	Ground water	1.71	0.00	0.00	126.06	3,060,000.00 gal
Application event totals		9.02	0.00	0.00	350.07	

I405 - 01/01/2020: Almond, in shell

Field name: I405

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 23	Ground water	45.84	0.00	0.00	2,895.07	54,929,340.00 gal
IFF Reservoir 30	Ground water	7.85	0.00	0.00	1,142.58	22,140,000.00 gal
Application event totals		53.69	0.00	0.00	4,037.65	
04/03/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

I406 - 01/01/2020: Almond, in shell

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I406 - 01/01/2020: Almond, in shell

Field name: I406

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 23	Ground water	46.07	0.00	0.00	2,909.82	54,482,760.00 gal
IFF Reservoir 30	Ground water	7.89	0.00	0.00	1,148.41	21,960,000.00 gal
Application event totals		53.96	0.00	0.00	4,058.22	
04/05/2023	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

I407 - 01/01/2020: Almond, in shell

Field name: I407

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 24	Ground water	37.98	0.00	0.00	2,550.82	52,303,680.00 gal
IFF Reservoir 30	Ground water	9.01	0.00	0.00	1,311.12	25,740,000.00 gal
Application event totals		46.99	0.00	0.00	3,861.94	
04/07/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

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I408 - 01/01/2020: Almond, in shell

Field name: I408

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 24	Ground water	37.54	0.00	0.00	2,521.17	50,352,960.00 gal
IFF Reservoir 30	Ground water	8.91	0.00	0.00	1,295.88	24,780,000.00 gal
Application event totals		46.44	0.00	0.00	3,817.05	
04/09/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

I409 - 11/04/2022: Rye Grass Silage

Field name: I409

Crop: Rye Grass Silage

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/06/2022	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
Separator Solids	Separator solids	144.49	21.11	30.85	0.00	1,137.00 ton
Application event totals		144.49	21.11	30.85	0.00	
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
IFF 115	Ground water	1.92	0.00	0.00	538.47	8,640,000.00 gal
IFF Reservoir 30	Ground water	1.64	0.00	0.00	238.31	4,800,000.00 gal
Application event totals		3.55	0.00	0.00	776.78	

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## I409 - 11/04/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/18/2023	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
IFF 115	Ground water	1.63	0.00	0.00	457.70	7,344,000.00 gal
IFF Reservoir 30	Ground water	1.39	0.00	0.00	202.56	4,080,000.00 gal
Application event totals		3.02	0.00	0.00	660.26	
03/01/2023	Surface (irrigation)	Light rain	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.84	0.00	0.00	518.28	8,316,000.00 gal
IFF Reservoir 30	Ground water	1.58	0.00	0.00	229.37	4,620,000.00 gal
Application event totals		3.42	0.00	0.00	747.65	

## I409 - 05/08/2023: Corn, silage

Field name:	I409	Plant date:	05/08/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/27/2023	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
Corral Solids	Corral solids	201.65	57.76	237.36	5,555.87	573.00 ton
Application event totals		201.65	57.76	237.36	5,555.87	
04/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.65	0.00	0.00	464.43	7,452,000.00 gal
IFF Reservoir 30	Ground water	1.41	0.00	0.00	205.54	4,140,000.00 gal
Application event totals		3.07	0.00	0.00	669.97	

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I409 - 05/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/08/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.51	0.00	0.00	424.05	6,804,000.00 gal
IFF Reservoir 30	Ground water	1.29	0.00	0.00	187.67	3,780,000.00 gal
Application event totals		2.80	0.00	0.00	611.72	
06/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.34	0.00	0.00	376.93	6,048,000.00 gal
IFF Reservoir 30	Ground water	1.15	0.00	0.00	166.82	3,360,000.00 gal
Application event totals		2.49	0.00	0.00	543.75	
06/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.29	0.00	0.00	363.47	5,832,000.00 gal
IFF Reservoir 30	Ground water	1.11	0.00	0.00	160.86	3,240,000.00 gal
Application event totals		2.40	0.00	0.00	524.33	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.44	0.00	0.00	403.86	6,480,000.00 gal
IFF Reservoir 30	Ground water	1.23	0.00	0.00	178.73	3,600,000.00 gal
Application event totals		2.67	0.00	0.00	582.59	

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I409 - 05/08/2023: 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)	Amount
IFF 115	Ground water	1.39	0.00	0.00	390.39	6,264,000.00 gal
IFF Reservoir 30	Ground water	1.19	0.00	0.00	172.77	3,480,000.00 gal
Application event totals		2.58	0.00	0.00	563.17	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.32	0.00	0.00	370.20	5,940,000.00 gal
IFF Reservoir 30	Ground water	1.13	0.00	0.00	163.84	3,300,000.00 gal
Application event totals		2.44	0.00	0.00	534.04	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 115	Ground water	1.25	0.00	0.00	350.01	5,616,000.00 gal
IFF Reservoir 30	Ground water	1.06	0.00	0.00	154.90	3,120,000.00 gal
Application event totals		2.31	0.00	0.00	504.91	

I410 - 11/04/2022: Rye Grass Silage

Field name: I410

Crop: Rye Grass Silage

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/08/2022	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
Separator Solids	Separator solids	164.95	24.09	35.21	0.00	1,183.00 ton
Application event totals		164.95	24.09	35.21	0.00	

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## I410 - 11/04/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/25/2022	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
IFF 25	Ground water	0.94	0.00	0.00	300.09	8,091,000.00 gal
IFF Reservoir 30	Ground water	2.09	0.00	0.00	303.97	5,580,000.00 gal
Application event totals		3.03	0.00	0.00	604.05	
01/21/2023	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
IFF 25	Ground water	0.72	0.00	0.00	229.10	6,177,000.00 gal
IFF Reservoir 30	Ground water	1.59	0.00	0.00	232.06	4,260,000.00 gal
Application event totals		2.31	0.00	0.00	461.16	
03/04/2023	Surface (irrigation)	No precipitation	Light rain	Light rain	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.81	0.00	0.00	258.14	6,960,000.00 gal
IFF Reservoir 30	Ground water	1.80	0.00	0.00	261.48	4,800,000.00 gal
Application event totals		2.60	0.00	0.00	519.62	

## I410 - 05/03/2023: Corn, silage

Field name: I410

Crop: Corn, silage

Plant date: 05/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/22/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	217.01	62.16	255.44	5,978.99	562.00 ton
Application event totals		217.01	62.16	255.44	5,978.99	

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I410 - 05/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.76	0.00	0.00	242.01	6,525,000.00 gal
IFF Reservoir 30	Ground water	1.68	0.00	0.00	245.13	4,500,000.00 gal
Application event totals		2.44	0.00	0.00	487.14	
05/03/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.68	0.00	0.00	216.19	5,829,000.00 gal
IFF Reservoir 30	Ground water	1.50	0.00	0.00	218.99	4,020,000.00 gal
Application event totals		2.18	0.00	0.00	435.18	
06/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.66	0.00	0.00	209.74	5,655,000.00 gal
IFF Reservoir 30	Ground water	1.46	0.00	0.00	212.45	3,900,000.00 gal
Application event totals		2.12	0.00	0.00	422.19	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.63	0.00	0.00	200.06	5,394,000.00 gal
IFF Reservoir 30	Ground water	1.39	0.00	0.00	202.64	3,720,000.00 gal
Application event totals		2.02	0.00	0.00	402.70	

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I410 - 05/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.59	0.00	0.00	190.38	5,133,000.00 gal
IFF Reservoir 30	Ground water	1.33	0.00	0.00	192.84	3,540,000.00 gal
Application event totals		1.92	0.00	0.00	383.22	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.55	0.00	0.00	177.47	4,785,000.00 gal
IFF Reservoir 30	Ground water	1.24	0.00	0.00	179.77	3,300,000.00 gal
Application event totals		1.79	0.00	0.00	357.24	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.53	0.00	0.00	171.02	4,611,000.00 gal
IFF Reservoir 30	Ground water	1.19	0.00	0.00	173.23	3,180,000.00 gal
Application event totals		1.72	0.00	0.00	344.25	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.56	0.00	0.00	180.70	4,872,000.00 gal
IFF Reservoir 30	Ground water	1.26	0.00	0.00	183.03	3,360,000.00 gal
Application event totals		1.82	0.00	0.00	363.73	

I411 - 11/04/2022: Rye Grass Silage

Field name: I411

Crop: Rye Grass Silage

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

## I411 - 11/04/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/11/2022	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
Separator Solids	Separator solids	165.37	24.15	35.30	0.00	1,186.00 ton
Application event totals		165.37	24.15	35.30	0.00	
11/28/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.88	0.00	0.00	280.73	7,569,000.00 gal
IFF Reservoir 30	Ground water	1.95	0.00	0.00	284.36	5,220,000.00 gal
Application event totals		2.83	0.00	0.00	565.08	
01/24/2023	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
IFF 25	Ground water	0.67	0.00	0.00	212.96	5,742,000.00 gal
IFF Reservoir 30	Ground water	1.48	0.00	0.00	215.72	3,960,000.00 gal
Application event totals		2.15	0.00	0.00	428.68	
03/07/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.74	0.00	0.00	235.55	6,351,000.00 gal
IFF Reservoir 30	Ground water	1.64	0.00	0.00	238.60	4,380,000.00 gal
Application event totals		2.38	0.00	0.00	474.15	

## I411 - 05/03/2023: Corn, silage

Field name: I411

Crop: Corn, silage

Plant date: 05/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

I411 - 05/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.74	0.00	0.00	235.55	6,351,000.00 gal
IFF Reservoir 30	Ground water	1.64	0.00	0.00	238.60	4,380,000.00 gal
Application event totals		2.38	0.00	0.00	474.15	
04/24/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	217.39	62.27	255.89	5,989.63	563.00 ton
Application event totals		217.39	62.27	255.89	5,989.63	
05/03/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.70	0.00	0.00	222.64	6,003,000.00 gal
IFF Reservoir 30	Ground water	1.55	0.00	0.00	225.52	4,140,000.00 gal
Application event totals		2.25	0.00	0.00	448.17	
06/07/2023	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
IFF 25	Ground water	0.62	0.00	0.00	196.83	5,307,000.00 gal
IFF Reservoir 30	Ground water	1.37	0.00	0.00	199.38	3,660,000.00 gal
Application event totals		1.99	0.00	0.00	396.21	

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I411 - 05/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.67	0.00	0.00	212.96	5,742,000.00 gal
IFF Reservoir 30	Ground water	1.48	0.00	0.00	215.72	3,960,000.00 gal
Application event totals		2.15	0.00	0.00	428.68	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.63	0.00	0.00	200.06	5,394,000.00 gal
IFF Reservoir 30	Ground water	1.39	0.00	0.00	202.64	3,720,000.00 gal
Application event totals		2.02	0.00	0.00	402.70	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 25	Ground water	0.55	0.00	0.00	177.47	4,785,000.00 gal
IFF Reservoir 30	Ground water	1.24	0.00	0.00	179.77	3,300,000.00 gal
Application event totals		1.79	0.00	0.00	357.24	
07/26/2023	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
IFF 25	Ground water	0.57	0.00	0.00	183.92	4,959,000.00 gal
IFF Reservoir 30	Ground water	1.28	0.00	0.00	186.30	3,420,000.00 gal
Application event totals		1.86	0.00	0.00	370.23	
08/08/2023	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
IFF 25	Ground water	0.50	0.00	0.00	161.34	4,350,000.00 gal
IFF Reservoir 30	Ground water	1.12	0.00	0.00	163.42	3,000,000.00 gal
Application event totals		1.63	0.00	0.00	324.76	

I501 - 01/01/2020: Almond, in shell

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

I501 - 01/01/2020: Almond, in shell

Field name: I501

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 16	Ground water	56.73	0.00	0.00	3,610.03	42,136,200.00 gal
IFF 95 Reservoir	Ground water	47.85	0.00	0.00	3,048.40	34,680,000.00 gal
Application event totals		104.58	0.00	0.00	6,658.43	
04/03/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

I502 - 01/01/2020: Almond, in shell

Field name: I502

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 17	Ground water	36.88	0.00	0.00	3,639.50	44,775,900.00 gal
IFF 95 Reservoir	Ground water	45.07	0.00	0.00	2,871.61	33,540,000.00 gal
Application event totals		81.95	0.00	0.00	6,511.11	
04/05/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

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I503 - 01/01/2020: Almond, in shell

Field name: I503

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 52	Ground water	63.20	0.00	0.00	4,781.53	49,395,000.00 gal
IFF 95 Reservoir	Ground water	36.84	0.00	0.00	2,346.95	26,700,000.00 gal
Application event totals		100.04	0.00	0.00	7,128.48	
04/07/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

I504 - 01/01/2020: Almond, in shell

Field name: I504

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 52	Ground water	64.05	0.00	0.00	4,845.86	50,727,000.00 gal
IFF 95 Reservoir	Ground water	37.33	0.00	0.00	2,378.52	27,420,000.00 gal
Application event totals		101.39	0.00	0.00	7,224.39	
04/09/2023	Sidedress	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
25-0-0-5S	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Application event totals		40.00	0.00	0.00	0.00	

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

I505 - 11/08/2022: Rye Grass Silage

Field name: I505

Crop: Rye Grass Silage

Plant date: 11/08/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/16/2022	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
Corral Solids	Corral solids	277.64	86.70	321.54	0.00	601.00 ton
Application event totals		277.64	86.70	321.54	0.00	
12/06/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	11.03	0.00	0.00	707.01	7,766,280.00 gal
IFF 95 Reservoir	Ground water	6.53	0.00	0.00	416.10	4,860,000.00 gal
Application event totals		17.56	0.00	0.00	1,123.12	
02/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	9.39	0.00	0.00	602.27	6,615,720.00 gal
IFF 95 Reservoir	Ground water	5.56	0.00	0.00	354.46	4,140,000.00 gal
Application event totals		14.96	0.00	0.00	956.73	
04/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	10.48	0.00	0.00	672.10	7,382,760.00 gal
IFF 95 Reservoir	Ground water	6.21	0.00	0.00	395.55	4,620,000.00 gal
Application event totals		16.69	0.00	0.00	1,067.65	

I505 - 06/26/2023: Corn, silage

Field name: I505

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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I505 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Separator Solids	Separator solids	120.22	17.59	52.78	10,775.92	1,063.00 ton
Application event totals		120.22	17.59	52.78	10,775.92	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	8.71	0.00	0.00	558.63	6,136,320.00 gal
IFF 95 Reservoir	Ground water	5.16	0.00	0.00	328.77	3,840,000.00 gal
Application event totals		13.87	0.00	0.00	887.40	
06/26/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	7.35	0.00	0.00	471.34	5,177,520.00 gal
IFF 95 Reservoir	Ground water	4.35	0.00	0.00	277.40	3,240,000.00 gal
Application event totals		11.70	0.00	0.00	748.74	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	6.81	0.00	0.00	436.43	4,794,000.00 gal
IFF 95 Reservoir	Ground water	4.03	0.00	0.00	256.85	3,000,000.00 gal
Application event totals		10.84	0.00	0.00	693.28	

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I505 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	7.08	0.00	0.00	453.89	4,985,760.00 gal
IFF 95 Reservoir	Ground water	4.19	0.00	0.00	267.13	3,120,000.00 gal
Application event totals		11.27	0.00	0.00	721.01	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	8.03	0.00	0.00	514.99	5,656,920.00 gal
IFF 95 Reservoir	Ground water	4.76	0.00	0.00	303.09	3,540,000.00 gal
Application event totals		12.79	0.00	0.00	818.07	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	7.62	0.00	0.00	488.80	5,369,280.00 gal
IFF 95 Reservoir	Ground water	4.52	0.00	0.00	287.67	3,360,000.00 gal
Application event totals		12.14	0.00	0.00	776.47	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	6.53	0.00	0.00	418.97	4,602,240.00 gal
IFF 95 Reservoir	Ground water	3.87	0.00	0.00	246.58	2,880,000.00 gal
Application event totals		10.40	0.00	0.00	665.55	
09/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	5.99	0.00	0.00	384.06	4,218,720.00 gal
IFF 95 Reservoir	Ground water	3.55	0.00	0.00	226.03	2,640,000.00 gal
Application event totals		9.54	0.00	0.00	610.09	

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I505 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	5.17	0.00	0.00	331.69	3,643,440.00 gal
IFF 95 Reservoir	Ground water	3.06	0.00	0.00	195.21	2,280,000.00 gal
Application event totals		8.24	0.00	0.00	526.89	

I506 - 11/08/2022: Rye Grass Silage

Field name: I506

Crop: Rye Grass Silage Plant date: 11/08/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/13/2022	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
Corral Solids	Corral solids	256.83	80.20	297.43	0.00	722.00 ton
Application event totals		256.83	80.20	297.43	0.00	
12/14/2022	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
IFF 19	Ground water	8.38	0.00	0.00	699.30	9,744,000.00 gal
IFF 95 Reservoir	Ground water	6.95	0.00	0.00	443.02	6,720,000.00 gal
Application event totals		15.33	0.00	0.00	1,142.32	
02/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 19	Ground water	6.58	0.00	0.00	549.45	7,656,000.00 gal
IFF 95 Reservoir	Ground water	5.46	0.00	0.00	348.09	5,280,000.00 gal
Application event totals		12.04	0.00	0.00	897.53	

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I506 - 11/08/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 19	Ground water	7.33	0.00	0.00	611.89	8,526,000.00 gal
IFF 95 Reservoir	Ground water	6.08	0.00	0.00	387.64	5,880,000.00 gal
Application event totals		13.41	0.00	0.00	999.53	

I506 - 06/15/2023: Tomato

Field name: I506

Crop: Tomato

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 19	Ground water	5.98	0.00	0.00	499.50	6,960,000.00 gal
IFF 95 Reservoir	Ground water	4.97	0.00	0.00	316.44	4,800,000.00 gal
Application event totals		10.95	0.00	0.00	815.94	
06/20/2023	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
IFF 19	Ground water	5.23	0.00	0.00	437.06	6,090,000.00 gal
IFF 95 Reservoir	Ground water	4.35	0.00	0.00	276.89	4,200,000.00 gal
Application event totals		9.58	0.00	0.00	713.95	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	60.00	0.00	0.00	0.00	
IFF 19	Ground water	4.94	0.00	0.00	412.09	5,742,000.00 gal
IFF 95 Reservoir	Ground water	4.10	0.00	0.00	261.06	3,960,000.00 gal
Application event totals		69.03	0.00	0.00	673.15	

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I506 - 06/15/2023: Tomato

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)	Amount
IFF 19	Ground water	5.09	0.00	0.00	424.57	5,916,000.00 gal
IFF 95 Reservoir	Ground water	4.22	0.00	0.00	268.98	4,080,000.00 gal
Application event totals		9.31	0.00	0.00	693.55	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 19	Ground water	4.19	0.00	0.00	349.65	4,872,000.00 gal
IFF 95 Reservoir	Ground water	3.48	0.00	0.00	221.51	3,360,000.00 gal
Application event totals		7.66	0.00	0.00	571.16	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 19	Ground water	4.56	0.00	0.00	380.87	5,307,000.00 gal
IFF 95 Reservoir	Ground water	3.79	0.00	0.00	241.29	3,660,000.00 gal
Application event totals		8.35	0.00	0.00	622.15	
08/29/2023	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
IFF 19	Ground water	4.34	0.00	0.00	362.14	5,046,000.00 gal
IFF 95 Reservoir	Ground water	3.60	0.00	0.00	229.42	3,480,000.00 gal
Application event totals		7.94	0.00	0.00	591.56	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 19	Ground water	3.81	0.00	0.00	318.43	4,437,000.00 gal
IFF 95 Reservoir	Ground water	3.17	0.00	0.00	201.73	3,060,000.00 gal
Application event totals		6.98	0.00	0.00	520.16	

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I506 - 06/15/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 19	Ground water	3.51	0.00	0.00	293.46	4,089,000.00 gal
IFF 95 Reservoir	Ground water	2.92	0.00	0.00	185.91	2,820,000.00 gal
Application event totals		6.43	0.00	0.00	479.37	

I507 - 11/08/2022: Rye Grass Silage

Field name: I507

Crop: Rye Grass Silage Plant date: 11/08/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	295.66	92.32	342.41	0.00	640.00 ton
Application event totals		295.66	92.32	342.41	0.00	
12/18/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	10.75	0.00	0.00	689.56	7,574,520.00 gal
IFF 95 Reservoir	Ground water	6.37	0.00	0.00	405.83	4,740,000.00 gal
Application event totals		17.12	0.00	0.00	1,095.38	
02/16/2023	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
IFF 18	Ground water	8.85	0.00	0.00	567.36	6,232,200.00 gal
IFF 95 Reservoir	Ground water	5.24	0.00	0.00	333.91	3,900,000.00 gal
Application event totals		14.09	0.00	0.00	901.27	

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I507 - 11/08/2022: Rye Grass Silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	9.53	0.00	0.00	611.00	6,711,600.00 gal
IFF 95 Reservoir	Ground water	5.64	0.00	0.00	359.59	4,200,000.00 gal
Application event totals		15.17	0.00	0.00	970.59	

I507 - 06/27/2023: Corn, silage

Field name: I507

Crop: Corn, silage

Plant date: 06/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/03/2023	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
Separator Solids	Separator solids	124.18	18.17	54.52	11,130.73	1,098.00 ton
Application event totals		124.18	18.17	54.52	11,130.73	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	9.39	0.00	0.00	602.27	6,615,720.00 gal
IFF 95 Reservoir	Ground water	5.56	0.00	0.00	354.46	4,140,000.00 gal
Application event totals		14.96	0.00	0.00	956.73	
06/27/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Application event totals		30.00	0.00	0.00	0.00	

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I507 - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	8.44	0.00	0.00	541.17	5,944,560.00 gal
IFF 95 Reservoir	Ground water	5.00	0.00	0.00	318.50	3,720,000.00 gal
Application event totals		13.44	0.00	0.00	859.67	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	8.98	0.00	0.00	576.09	6,328,080.00 gal
IFF 95 Reservoir	Ground water	5.32	0.00	0.00	339.05	3,960,000.00 gal
Application event totals		14.31	0.00	0.00	915.13	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	8.30	0.00	0.00	532.44	5,848,680.00 gal
IFF 95 Reservoir	Ground water	4.92	0.00	0.00	313.36	3,660,000.00 gal
Application event totals		13.22	0.00	0.00	845.80	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	8.85	0.00	0.00	567.36	6,232,200.00 gal
IFF 95 Reservoir	Ground water	5.24	0.00	0.00	333.91	3,900,000.00 gal
Application event totals		14.09	0.00	0.00	901.27	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	7.90	0.00	0.00	506.26	5,561,040.00 gal
IFF 95 Reservoir	Ground water	4.68	0.00	0.00	297.95	3,480,000.00 gal
Application event totals		12.57	0.00	0.00	804.21	

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I507 - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	7.35	0.00	0.00	471.34	5,177,520.00 gal
IFF 95 Reservoir	Ground water	4.35	0.00	0.00	277.40	3,240,000.00 gal
Application event totals		11.70	0.00	0.00	748.74	
09/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	6.26	0.00	0.00	401.51	4,410,480.00 gal
IFF 95 Reservoir	Ground water	3.71	0.00	0.00	236.30	2,760,000.00 gal
Application event totals		9.97	0.00	0.00	637.82	
10/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IFF 18	Ground water	5.85	0.00	0.00	375.33	4,122,840.00 gal
IFF 95 Reservoir	Ground water	3.47	0.00	0.00	220.89	2,580,000.00 gal
Application event totals		9.32	0.00	0.00	596.22	

I701 - 09/30/2016: Almond, in shell

Field name: I701

Crop: Almond, in shell

Plant date: 09/30/2016

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/13/2022	Broadcast/incorporate	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Separator solids	110.14	37.20	196.94	0.00	262.00 ton
Application event totals		110.14	37.20	196.94	0.00	

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I701 - 09/30/2016: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
MID	Surface water	0.97	0.00	0.00	19.38	5,806,080.00 gal
Application event totals		20.97	0.00	0.00	19.38	
05/08/2023	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
MID	Surface water	1.16	0.00	0.00	23.15	6,935,040.00 gal
Application event totals		1.16	0.00	0.00	23.15	
06/05/2023	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
MID	Surface water	1.27	0.00	0.00	25.30	7,580,160.00 gal
Application event totals		1.27	0.00	0.00	25.30	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID	Surface water	1.41	0.00	0.00	28.26	8,467,200.00 gal
Application event totals		1.41	0.00	0.00	28.26	
08/07/2023	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
MID	Surface water	1.56	0.00	0.00	31.22	9,354,240.00 gal
Application event totals		1.56	0.00	0.00	31.22	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
MID	Surface water	1.21	0.00	0.00	24.23	7,257,600.00 gal
Application event totals		1.21	0.00	0.00	24.23	

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I701 - 09/30/2016: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
MID	Surface water	0.85	0.00	0.00	16.96
Application event totals		0.85	0.00	0.00	16.96

I801 - 01/01/2018: Almond, in shell

Field name: I801

Crop: Almond, in shell

Plant date: 01/01/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/16/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Drying Solids	Separator solids	104.33	35.24	186.54	0.00
Application event totals		104.33	35.24	186.54	0.00
04/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
25-0-0-5S	Liquid commercial fertilizer	20.00	0.00	0.00	0.00
FID Canal	Surface water	1.03	0.00	0.00	23.78
Application event totals		21.03	0.00	0.00	23.78
05/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
FID Canal	Surface water	1.21	0.00	0.00	27.94
Application event totals		1.21	0.00	0.00	27.94
06/06/2023	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)
FID Canal	Surface water	1.31	0.00	0.00	30.20
Application event totals		1.31	0.00	0.00	30.20

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I801 - 01/01/2018: Almond, in shell

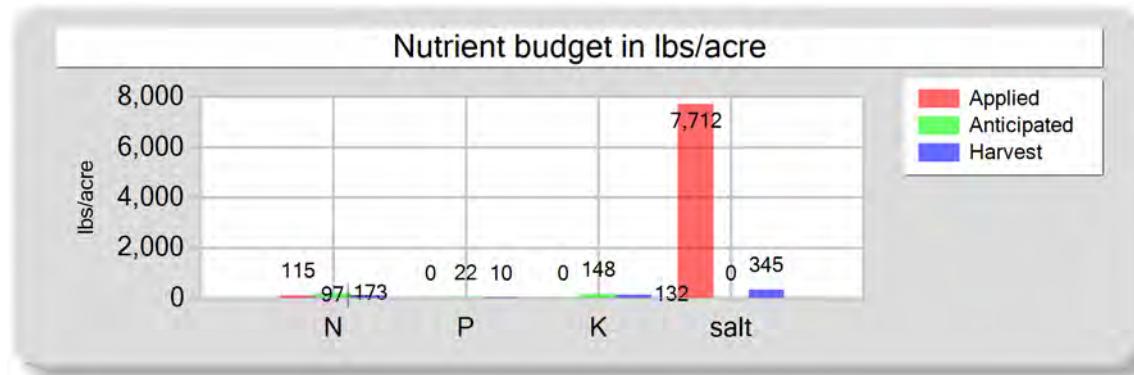
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FID Canal	Surface water	1.42	0.00	0.00	32.65	13,950,720.00 gal
Application event totals		1.42	0.00	0.00	32.65	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FID Canal	Surface water	1.49	0.00	0.00	34.35	14,676,480.00 gal
Application event totals		1.49	0.00	0.00	34.35	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FID Canal	Surface water	1.17	0.00	0.00	26.99	11,531,520.00 gal
Application event totals		1.17	0.00	0.00	26.99	
10/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
FID Canal	Surface water	0.94	0.00	0.00	21.71	9,273,600.00 gal
Application event totals		0.94	0.00	0.00	21.71	

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**B. NUTRIENT BUDGET**

I101 - 01/01/2018: Almond, in shell

Field name: I101      Crop: Almond, in shell      Plant date: 01/01/2018

	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	80.00	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	20.96	0.00	0.00	7,711.95
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>114.96</b>	<b>0.00</b>	<b>0.00</b>	<b>7,711.95</b>
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	96.80	10.19	132.47	344.79
Nutrient balance	18.15	-10.19	-132.47	7,367.16
Applied to removed ratio	1.19	0.00	0.00	22.37

Fresh water applied
12,054,000.00 gallons
443.91 acre-inches
36.99 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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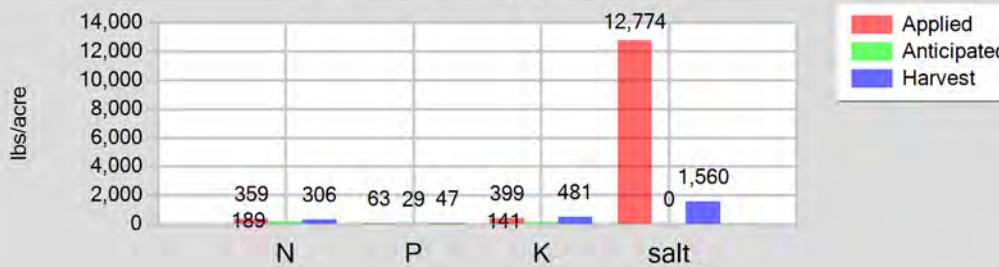
Reporting period 01/01/2023 to 12/31/2023.

I102 - 10/01/2022: Rye Grass Silage

Field name: I102

Crop: Rye Grass Silage

Plant date: 10/01/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	287.30	62.83	399.11	10,231.01
Fresh water	64.50	0.00	0.00	2,543.10
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>358.80</b>	<b>62.83</b>	<b>399.11</b>	<b>12,774.11</b>
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	306.26	47.40	481.26	1,560.14
Nutrient balance	52.54	15.43	-82.15	11,213.97
Applied to removed ratio	1.17	1.33	0.83	8.19

**Fresh water applied**

6,911,760.00 gallons  
254.54 acre-inches  
11.57 inches/acre

**Process wastewater applied**

3,645,000.00 gallons  
134.23 acre-inches  
6.10 inches/acre

**Total harvests for the crop**

1 harvests

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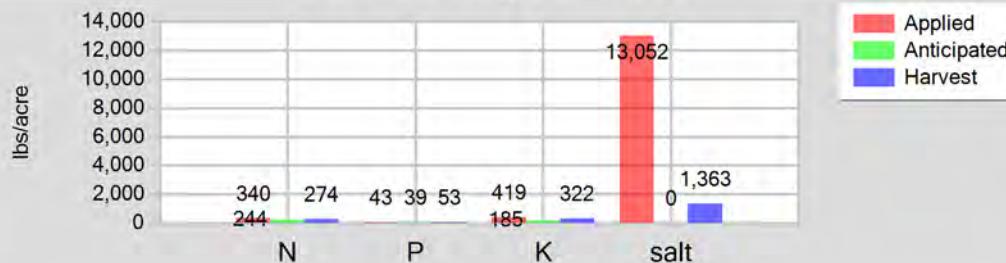
Reporting period 01/01/2023 to 12/31/2023.

I102 - 06/06/2023: Corn, silage

Field name: I102

Crop: Corn, silage

Plant date: 06/06/2023

**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	20.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	234.19	43.39	418.90	8,986.65
Fresh water	79.24	0.00	0.00	4,065.36
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>340.43</b>	<b>43.39</b>	<b>418.90</b>	<b>13,052.02</b>
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00
Actual crop nutrient removal	274.06	52.89	322.14	1,362.66
Nutrient balance	66.37	-9.50	96.76	11,689.36
Applied to removed ratio	1.24	0.82	1.30	9.58

**Fresh water applied**

24,034,080.00 gallons  
885.09 acre-inches  
40.23 inches/acre

**Process wastewater applied**

2,160,000.00 gallons  
79.55 acre-inches  
3.62 inches/acre

**Total harvests for the crop**

1 harvests

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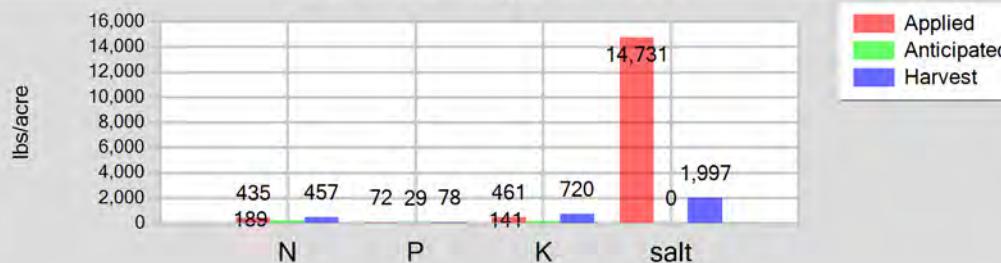
Reporting period 01/01/2023 to 12/31/2023.

I103 - 10/20/2022: Rye Grass Silage

Field name: I103

Crop: Rye Grass Silage

Plant date: 10/20/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	330.07	72.42	461.16	11,450.76
Fresh water	98.43	0.00	0.00	3,280.35
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>435.50</b>	<b>72.42</b>	<b>461.16</b>	<b>14,731.11</b>
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	457.32	77.99	719.66	1,996.96
Nutrient balance	-21.82	-5.57	-258.50	12,734.15
Applied to removed ratio	0.95	0.93	0.64	7.38

**Fresh water applied**

60,449,400.00 gallons  
2,226.15 acre-inches  
17.81 inches/acre

**Process wastewater applied**

23,760,000.00 gallons  
875.00 acre-inches  
7.00 inches/acre

**Total harvests for the crop**

1 harvests

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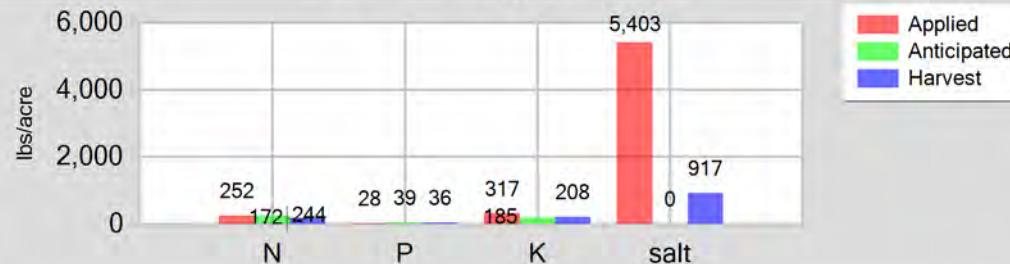
I103 - 06/20/2023: Corn, silage

Field name: I103

Crop: Corn, silage

Plant date: 06/20/2023

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	20.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	150.34	27.71	316.81	1,857.56
Fresh water	74.82	0.00	0.00	3,545.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	252.15	27.71	316.81	5,403.35
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00
Actual crop nutrient removal	172.43	35.50	207.93	917.44
Nutrient balance	79.72	-7.79	108.88	4,485.92
Applied to removed ratio	1.46	0.78	1.52	5.89

## Fresh water applied

112,091,580.00 gallons  
4,127.95 acre-inches  
33.02 inches/acre

## Process wastewater applied

5,895,000.00 gallons  
217.09 acre-inches  
1.74 inches/acre

## Total harvests for the crop

1 harvests

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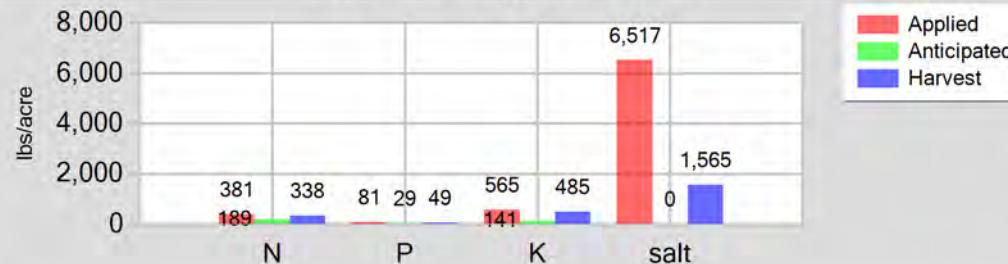
Reporting period 01/01/2023 to 12/31/2023.

I104 - 10/01/2022: Rye Grass Silage

Field name: I104

Crop: Rye Grass Silage

Plant date: 10/01/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	42,435,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,562.74 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.95 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	312.38	80.56	565.19	3,932.07	Process wastewater applied
Fresh water	61.97	0.00	0.00	2,585.35	18,000,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	662.88 acre-inches
Total nutrients applied	381.35	80.56	565.19	6,517.42	6.76 inches/acre
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	Total harvests for the crop
Actual crop nutrient removal	338.25	48.99	485.22	1,565.25	1 harvests
Nutrient balance	43.10	31.57	79.97	4,952.17	
Applied to removed ratio	1.13	1.64	1.16	4.16	

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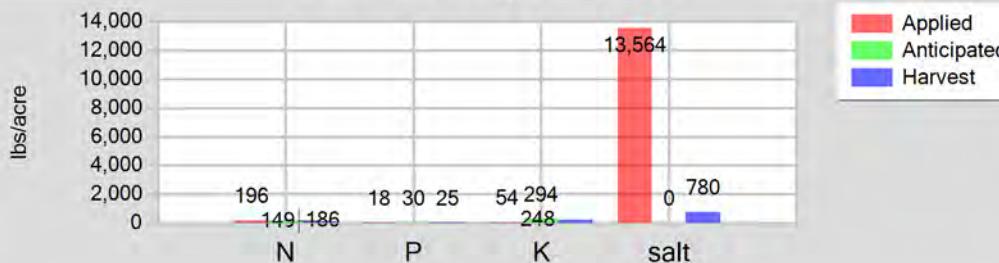
I104 - 05/27/2023: Tomato

Field name: I104

Crop: Tomato

Plant date: 05/27/2023

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	30.00	0.00	0.00	0.00
Dry manure	122.63	17.95	53.84	10,991.70
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	36.43	0.00	0.00	2,572.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	196.06	17.95	53.84	13,564.17
Anticipated crop nutrient removal	186.00	30.00	294.00	0.00
Actual crop nutrient removal	148.60	24.77	247.67	780.16
Nutrient balance	47.46	-6.82	-193.83	12,784.01
Applied to removed ratio	1.32	0.72	0.22	17.39

## Fresh water applied

80,642,760.00 gallons  
2,969.80 acre-inches  
30.30 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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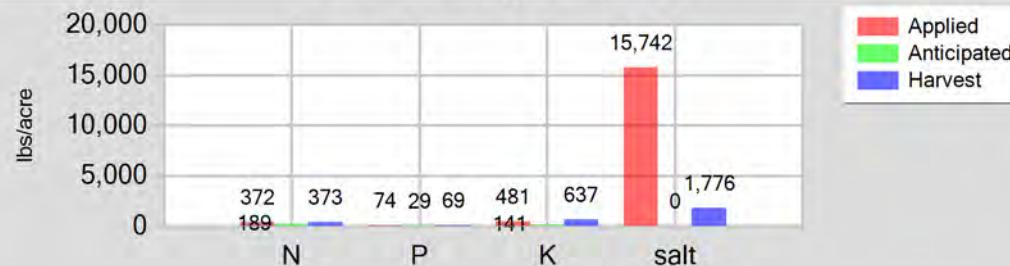
I105 - 10/01/2022: Rye Grass Silage

Field name: I105

Crop: Rye Grass Silage

Plant date: 10/01/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	35,965,440.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,324.48 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.96 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	328.33	74.11	481.06	12,952.08	Process wastewater applied
Fresh water	37.04	0.00	0.00	2,789.54	16,230,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	597.70 acre-inches
Total nutrients applied	372.37	74.11	481.06	15,741.63	7.20 inches/acre
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	
Actual crop nutrient removal	372.90	69.30	636.90	1,776.37	Total harvests for the crop
Nutrient balance	-0.53	4.81	-155.84	13,965.26	1 harvests
Applied to removed ratio	1.00	1.07	0.76	8.86	

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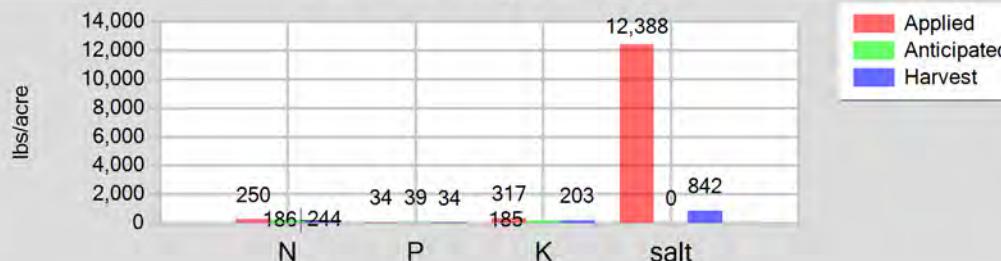
Reporting period 01/01/2023 to 12/31/2023.

I105 - 06/07/2023: Corn, silage

Field name: I105

Crop: Corn, silage

Plant date: 06/07/2023

**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	20.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	184.70	34.26	316.99	8,180.47
Fresh water	38.29	0.00	0.00	4,207.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	249.99	34.26	316.99	12,387.69
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00
Actual crop nutrient removal	185.80	33.78	202.69	842.44
Nutrient balance	64.18	0.48	114.30	11,545.25
Applied to removed ratio	1.35	1.01	1.56	14.70

**Fresh water applied**

86,858,880.00 gallons  
3,198.72 acre-inches  
38.54 inches/acre

**Process wastewater applied**

6,795,000.00 gallons  
250.24 acre-inches  
3.01 inches/acre

**Total harvests for the crop**

1 harvests

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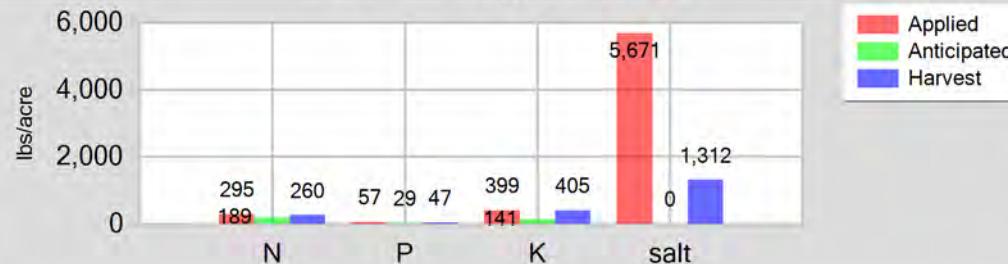
Reporting period 01/01/2023 to 12/31/2023.

I106 - 10/01/2022: Rye Grass Silage

Field name: I106

Crop: Rye Grass Silage

Plant date: 10/01/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	218.22	56.70	399.40	2,766.12
Fresh water	69.64	0.00	0.00	2,905.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.86	56.70	399.40	5,671.36
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	259.99	46.84	405.20	1,312.35
Nutrient balance	34.87	9.85	-5.81	4,359.02
Applied to removed ratio	1.13	1.21	0.99	4.32

**Fresh water applied**

43,792,920.00 gallons  
1,612.74 acre-inches  
17.92 inches/acre

**Process wastewater applied**

11,610,000.00 gallons  
427.56 acre-inches  
4.75 inches/acre

**Total harvests for the crop**

1 harvests

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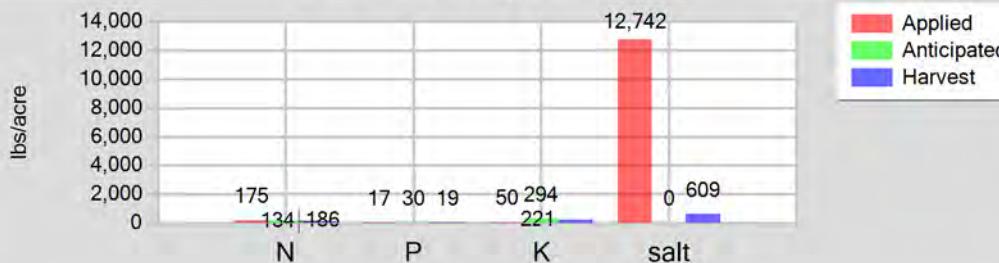
I106 - 06/01/2023: Tomato

Field name: I106

Crop: Tomato

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	30.00	0.00	0.00	0.00
Dry manure	113.21	16.57	49.70	10,147.41
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	24.55	0.00	0.00	2,594.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	174.76	16.57	49.70	12,742.07
Anticipated crop nutrient removal	186.00	30.00	294.00	0.00
Actual crop nutrient removal	134.23	19.18	220.51	608.81
Nutrient balance	40.53	-2.61	-170.81	12,133.26
Applied to removed ratio	1.30	0.86	0.23	20.93

## Fresh water applied

74,521,560.00 gallons  
2,744.38 acre-inches  
30.49 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.

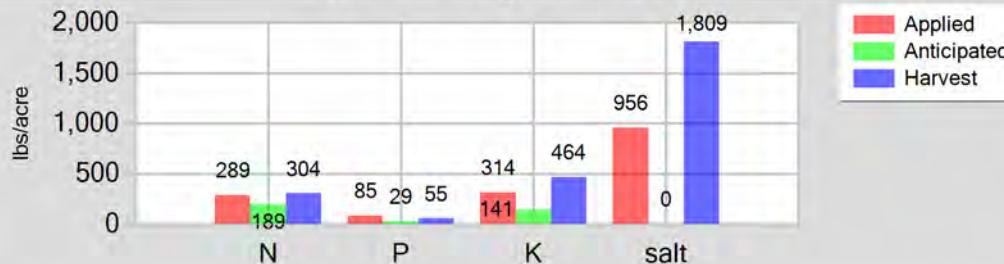
I1102 - 10/03/2022: Rye Grass Silage

Field name: I1102

Crop: Rye Grass Silage

Plant date: 10/03/2022

Nutrient budget in lbs/acre



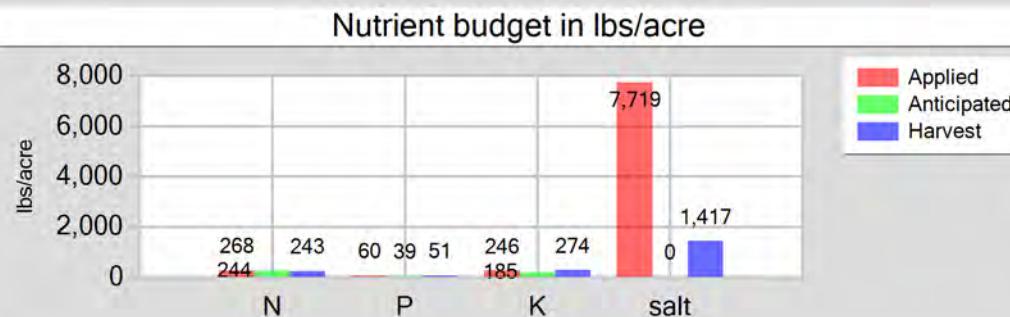
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	10,666,500.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	392.81 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.71 inches/acre
Dry manure	271.02	84.63	313.87	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	10.67	0.00	0.00	955.93	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	288.69	84.63	313.87	955.93	Process wastewater applied
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	0.00 gallons
Actual crop nutrient removal	304.21	55.31	464.00	1,809.13	0.00 acre-inches
Nutrient balance	-15.52	29.32	-150.13	-853.20	0.00 inches/acre
Applied to removed ratio	0.95	1.53	0.68	0.53	Total harvests for the crop
					1 harvests

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

I1102 - 06/23/2023: Corn, silage

Field name: I1102      Crop: Corn, silage      Plant date: 06/23/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,825,300.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	803.75 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	38.27 inches/acre
Dry manure	209.17	59.92	246.22	5,763.18	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	21.82	0.00	0.00	1,955.98	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	268.00	59.92	246.22	7,719.16	0.00 inches/acre
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00	
Actual crop nutrient removal	242.56	51.07	274.48	1,417.06	Total harvests for the crop
Nutrient balance	25.44	8.85	-28.26	6,302.10	1 harvests
Applied to removed ratio	1.10	1.17	0.90	5.45	

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

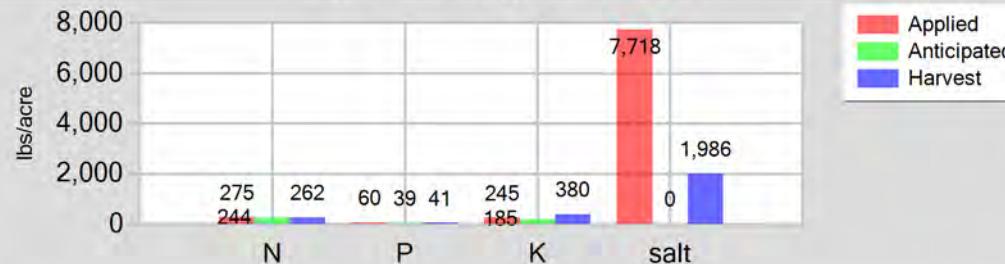
Reporting period 01/01/2023 to 12/31/2023.

I1103 - 05/08/2023: Corn, silage

Field name: I1103

Crop: Corn, silage

Plant date: 05/08/2023

**Nutrient budget in lbs/acre**

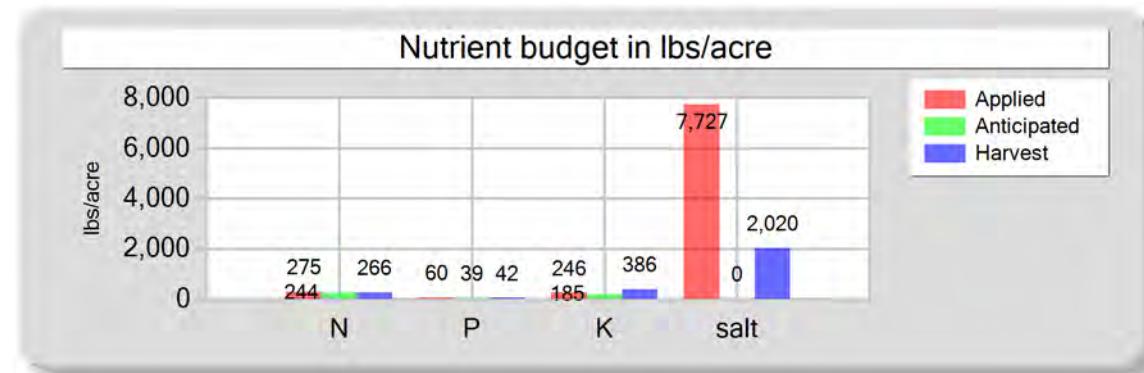
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	37,743,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,389.95 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	38.61 inches/acre
Dry manure	208.51	59.73	245.44	5,744.94	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	22.02	0.00	0.00	1,973.14	0.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	274.53	59.73	245.44	7,718.08	0.00 inches/acre
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00	
Actual crop nutrient removal	261.85	41.07	379.94	1,986.37	Total harvests for the crop
Nutrient balance	12.68	18.66	-134.50	5,731.71	1 harvests
Applied to removed ratio	1.05	1.45	0.65	3.89	

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

I1104 - 05/08/2023: Corn, silage

Field name: I1104      Crop: Corn, silage      Plant date: 05/08/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	34,543,050.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,272.10 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	38.55 inches/acre
Dry manure	208.93	59.85	245.93	5,756.55	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	21.98	0.00	0.00	1,970.02	0.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	274.91	59.85	245.93	7,726.57	0.00 inches/acre
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00	
Actual crop nutrient removal	266.30	41.77	386.39	2,020.10	Total harvests for the crop
Nutrient balance	8.62	18.08	-140.46	5,706.47	1 harvests
Applied to removed ratio	1.03	1.43	0.64	3.82	

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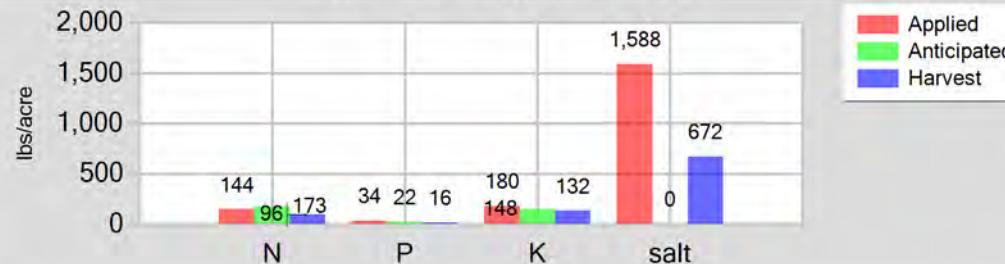
Reporting period 01/01/2023 to 12/31/2023.

I1201 - 01/01/2009: Almond, in shell

Field name: I1201

Crop: Almond, in shell

Plant date: 01/01/2009

**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	95,144,400.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,503.84 acre-inches
Commercial fertilizer / Other	20.00	0.00	0.00	0.00	36.88 inches/acre
Dry manure	100.89	34.08	180.40	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	9.19	0.00	0.00	1,587.96	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	144.09	34.08	180.40	1,587.96	
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	
Actual crop nutrient removal	95.64	16.24	131.73	671.64	
Nutrient balance	48.44	17.84	48.67	916.32	
Applied to removed ratio	1.51	2.10	1.37	2.36	
Total harvests for the crop					1 harvests

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

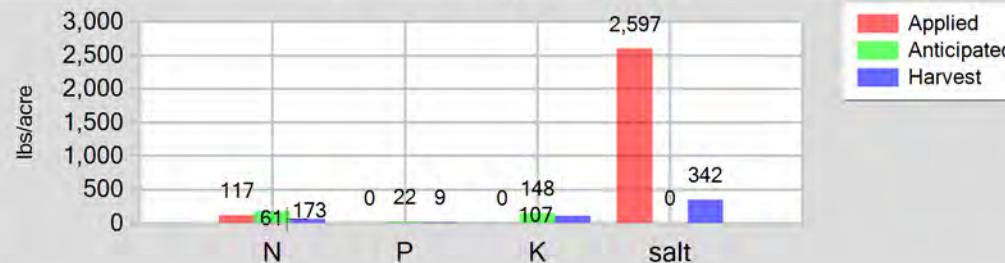
Reporting period 01/01/2023 to 12/31/2023.

I1301 - 02/01/2013: Almond, in shell

Field name: I1301

Crop: Almond, in shell

Plant date: 02/01/2013

**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	20.00	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	82.66	0.00	0.00	2,596.87
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	116.66	0.00	0.00	2,596.87
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	61.02	8.89	107.09	342.37
Nutrient balance	55.64	-8.89	-107.09	2,254.50
Applied to removed ratio	1.91	0.00	0.00	7.59

**Fresh water applied**

15,778,560.00 gallons  
581.07 acre-inches  
32.28 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

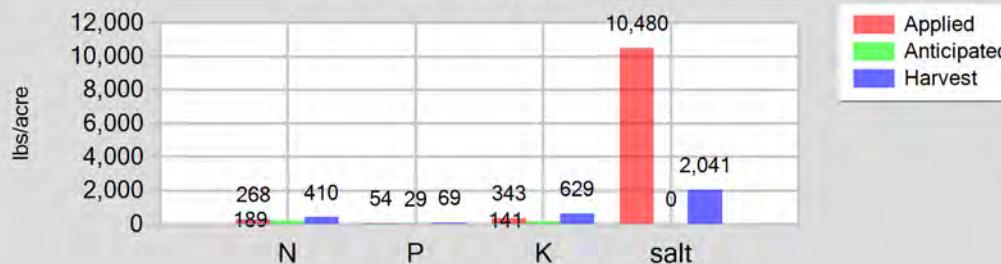
**Total harvests for the crop**

1 harvests

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

I201 - 10/25/2022: Rye Grass Silage

Field name: I201Crop: Rye Grass SilagePlant date: 10/25/2022**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	36,384,960.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,339.93 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.63 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	248.36	54.13	343.05	8,895.91	Process wastewater applied
Fresh water	12.85	0.00	0.00	1,584.09	10,872,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	400.38 acre-inches
Total nutrients applied	268.21	54.13	343.05	10,480.00	5.27 inches/acre
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	Total harvests for the crop
Actual crop nutrient removal	410.40	69.04	629.03	2,040.75	1 harvests
Nutrient balance	-142.20	-14.91	-285.98	8,439.25	
Applied to removed ratio	0.65	0.78	0.55	5.14	

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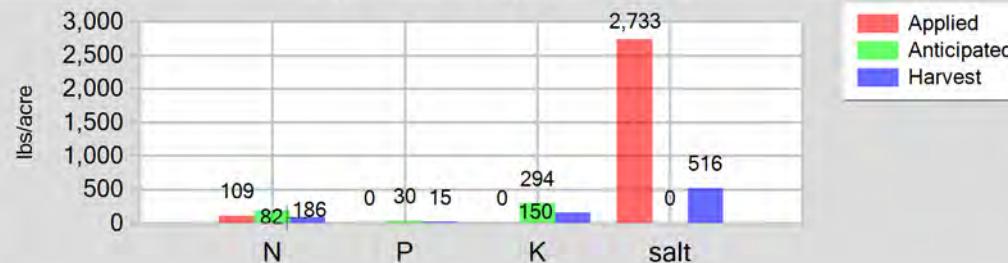
Reporting period 01/01/2023 to 12/31/2023.

I201 - 06/12/2023: Tomato

Field name: I201

Crop: Tomato

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	62,770,080.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,311.61 acre-inches
Commercial fertilizer / Other	80.00	0.00	0.00	0.00	30.42 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	22.16	0.00	0.00	2,732.82	Process wastewater applied
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	109.16	0.00	0.00	2,732.82	0.00 acre-inches
Anticipated crop nutrient removal	186.00	30.00	294.00	0.00	0.00 inches/acre
Actual crop nutrient removal	82.26	14.96	149.56	515.99	Total harvests for the crop
Nutrient balance	26.90	-14.96	-149.56	2,216.83	1 harvests
Applied to removed ratio	1.33	0.00	0.00	5.30	

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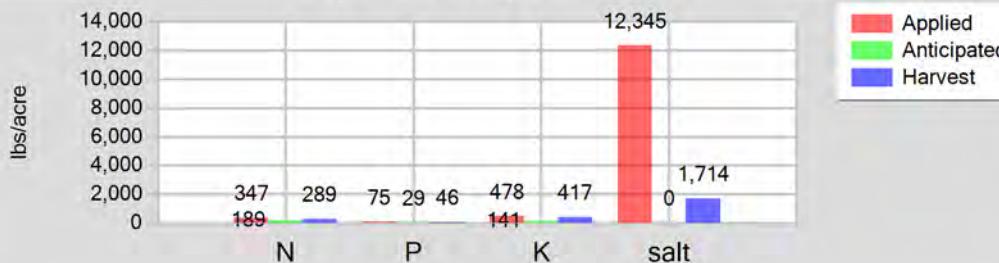
Reporting period 01/01/2023 to 12/31/2023.

I202 - 09/16/2022: Rye Grass Silage

Field name: I202

Crop: Rye Grass Silage

Plant date: 09/16/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	336.71	74.55	477.66	12,283.07
Fresh water	2.93	0.00	0.00	61.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	346.64	74.55	477.66	12,344.69
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	289.31	46.29	416.61	1,713.51
Nutrient balance	57.34	28.26	61.06	10,631.18
Applied to removed ratio	1.20	1.61	1.15	7.20

**Fresh water applied**

26,369,280.00 gallons  
971.09 acre-inches  
12.95 inches/acre

**Process wastewater applied**

14,715,000.00 gallons  
541.90 acre-inches  
7.23 inches/acre

**Total harvests for the crop**

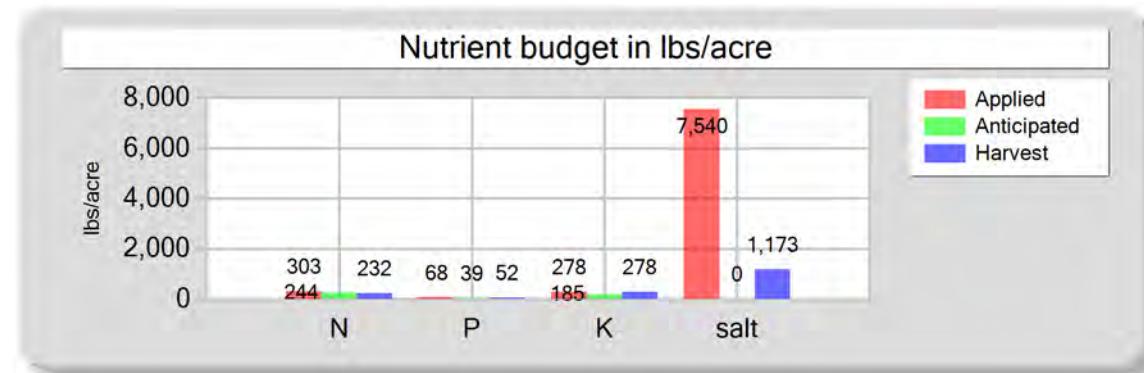
1 harvests

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

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

I202 - 06/12/2023: Corn, silage

Field name: I202      Crop: Corn, silage      Plant date: 06/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	30.00	0.00	0.00	0.00
Dry manure	236.13	67.64	277.94	6,505.83
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	29.98	0.00	0.00	1,034.03
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	303.11	67.64	277.94	7,539.86
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00
Actual crop nutrient removal	231.98	52.20	278.37	1,172.83
Nutrient balance	71.13	15.45	-0.43	6,367.03
Applied to removed ratio	1.31	1.30	1.00	6.43

Fresh water applied  
 78,561,000.00 gallons  
 2,893.13 acre-inches  
 38.58 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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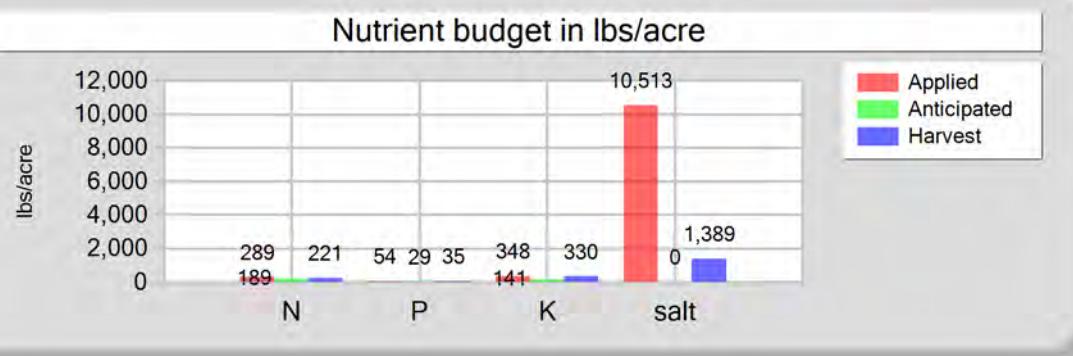
Reporting period 01/01/2023 to 12/31/2023.

I203 - 09/16/2022: Rye Grass Silage

Field name: I203

Crop: Rye Grass Silage

Plant date: 09/16/2022



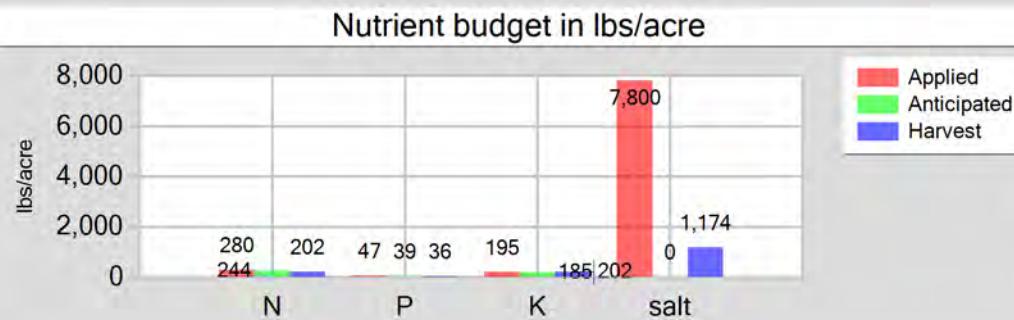
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	18,009,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	663.21 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.92 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	246.65	54.41	347.78	9,042.84	5,310,000.00 gallons
Fresh water	35.32	0.00	0.00	1,470.08	195.55 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	5.29 inches/acre
Total nutrients applied	288.97	54.41	347.78	10,512.92	
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	
Actual crop nutrient removal	220.61	34.83	329.75	1,389.23	
Nutrient balance	68.37	19.58	18.03	9,123.69	
Applied to removed ratio	1.31	1.56	1.05	7.57	
<b>Total harvests for the crop</b>					<b>1 harvests</b>

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

I203 - 06/06/2023: Corn, silage

Field name: I203      Crop: Corn, silage      Plant date: 06/06/2023

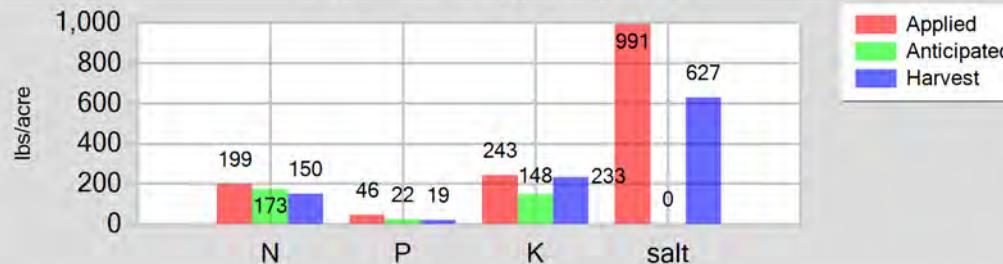


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	39,759,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,464.19 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	39.57 inches/acre
Dry manure	165.31	47.35	194.58	4,554.55	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	77.99	0.00	0.00	3,245.53	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	280.29	47.35	194.58	7,800.08	0.00 inches/acre
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00	
Actual crop nutrient removal	202.00	35.65	202.00	1,173.99	Total harvests for the crop
Nutrient balance	78.29	11.71	-7.42	6,626.09	1 harvests
Applied to removed ratio	1.39	1.33	0.96	6.64	

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

I204 - 01/01/2004: Almond, in shell

Field name: I204Crop: Almond, in shellPlant date: 01/01/2004**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	20.00	0.00	0.00	0.00
Dry manure	135.92	45.91	243.04	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	28.73	0.00	0.00	990.70
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	198.65	45.91	243.04	990.70
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	149.98	19.49	233.02	627.33
Nutrient balance	48.67	26.42	10.03	363.37
Applied to removed ratio	1.32	2.36	1.04	1.58

**Fresh water applied**

75,268,920.00 gallons  
2,771.90 acre-inches  
36.96 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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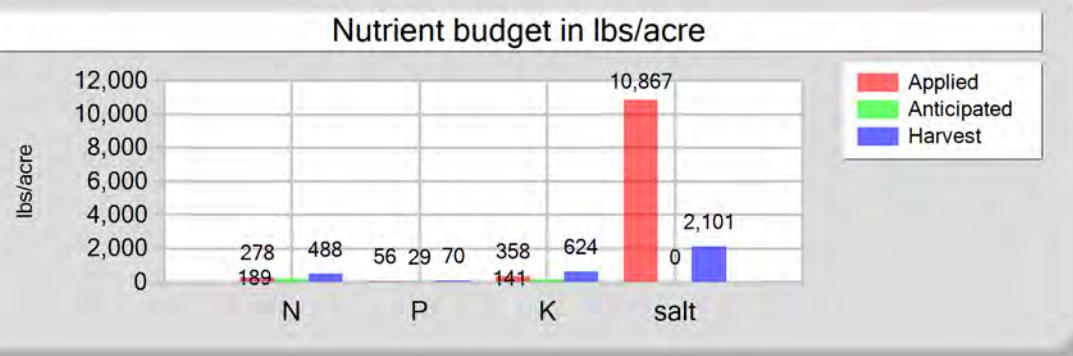
Reporting period 01/01/2023 to 12/31/2023.

I205 - 10/25/2022: Rye Grass Silage

Field name: I205

Crop: Rye Grass Silage

Plant date: 10/25/2022



	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	37,348,800.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,375.43 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.34 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	257.89	56.40	358.30	9,218.97	Process wastewater applied
Fresh water	13.36	0.00	0.00	1,647.73	11,160,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	410.98 acre-inches
Total nutrients applied	278.25	56.40	358.30	10,866.70	5.48 inches/acre
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	Total harvests for the crop
Actual crop nutrient removal	487.75	70.21	624.46	2,100.63	1 harvests
Nutrient balance	-209.50	-13.81	-266.16	8,766.07	
Applied to removed ratio	0.57	0.80	0.57	5.17	

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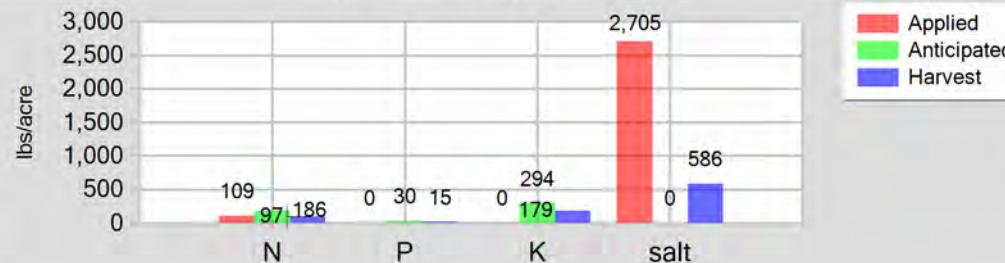
Reporting period 01/01/2023 to 12/31/2023.

I205 - 06/12/2023: Tomato

Field name: I205

Crop: Tomato

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	80.00	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	21.94	0.00	0.00	2,705.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	108.94	0.00	0.00	2,705.47
Anticipated crop nutrient removal	186.00	30.00	294.00	0.00
Actual crop nutrient removal	96.95	14.92	178.99	585.76
Nutrient balance	11.99	-14.92	-178.99	2,119.72
Applied to removed ratio	1.12	0.00	0.00	4.62

**Fresh water applied**

61,324,320.00 gallons  
2,258.37 acre-inches  
30.11 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.

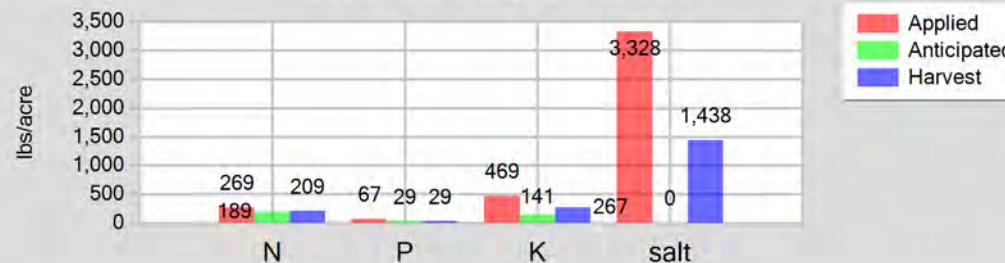
I206 - 09/16/2022: Rye Grass Silage

Field name: I206

Crop: Rye Grass Silage

Plant date: 09/16/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	258.11	66.72	468.75	3,256.31
Fresh water	3.40	0.00	0.00	71.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	268.51	66.72	468.75	3,327.73
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	209.23	28.94	267.11	1,438.15
Nutrient balance	59.28	37.79	201.64	1,889.58
Applied to removed ratio	1.28	2.31	1.75	2.31

## Fresh water applied

15,079,680.00 gallons  
555.33 acre-inches  
15.01 inches/acre

## Process wastewater applied

5,625,000.00 gallons  
207.15 acre-inches  
5.60 inches/acre

## Total harvests for the crop

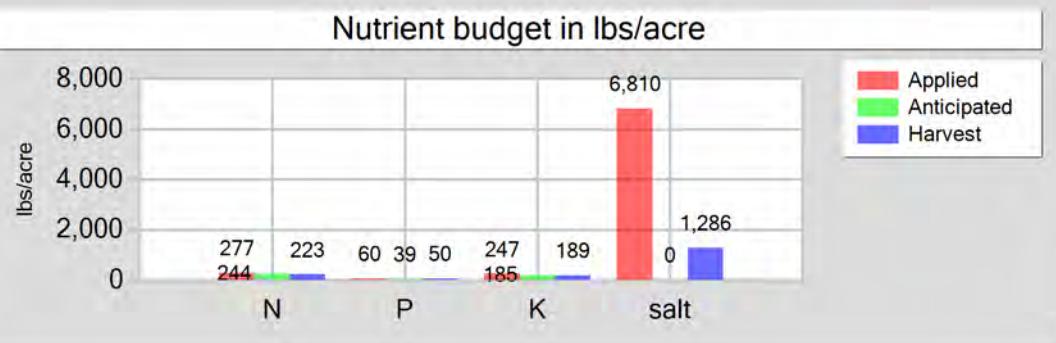
1 harvests

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I206 - 06/20/2023: Corn, silage

Field name: I206      Crop: Corn, silage      Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	38,756,760.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,427.28 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	38.58 inches/acre
Dry manure	209.64	60.05	246.76	5,775.99	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	29.98	0.00	0.00	1,034.03	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	276.62	60.05	246.76	6,810.02	0.00 inches/acre
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00	
Actual crop nutrient removal	222.52	50.07	189.14	1,285.73	Total harvests for the crop
Nutrient balance	54.10	9.99	57.62	5,524.30	1 harvests
Applied to removed ratio	1.24	1.20	1.30	5.30	

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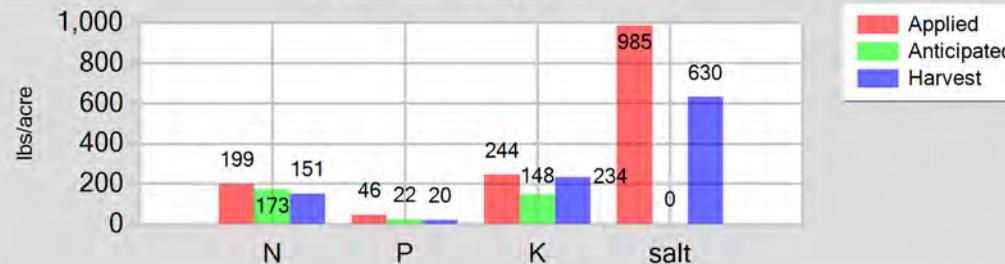
I207 - 01/01/2005: Almond, in shell

Field name: I207

Crop: Almond, in shell

Plant date: 01/01/2005

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	78,860,280.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,904.16 acre-inches
Commercial fertilizer / Other	20.00	0.00	0.00	0.00	36.76 inches/acre
Dry manure	136.49	46.10	244.06	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	28.57	0.00	0.00	985.41	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	199.06	46.10	244.06	985.41	
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	
Actual crop nutrient removal	150.59	19.57	233.97	629.89	
Nutrient balance	48.48	26.53	10.09	355.53	
Applied to removed ratio	1.32	2.36	1.04	1.56	
Total harvests for the crop					1 harvests

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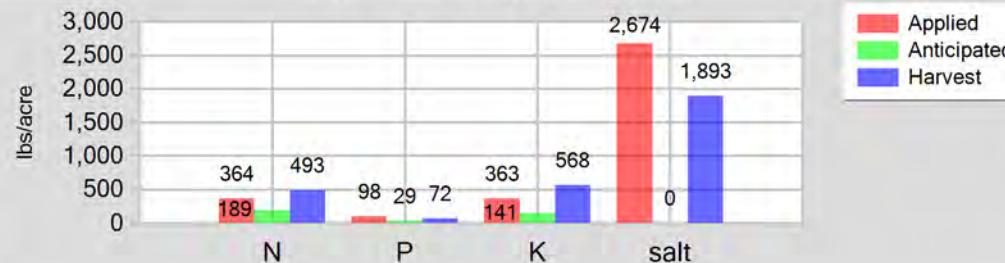
Reporting period 01/01/2023 to 12/31/2023.

I208 - 11/10/2022: Rye Grass Silage

Field name: I208

Crop: Rye Grass Silage

Plant date: 11/10/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	37,506,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,381.22 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.94 inches/acre
Dry manure	313.68	97.95	363.27	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	43.71	0.00	0.00	2,674.19	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	364.39	97.95	363.27	2,674.19	
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	
Actual crop nutrient removal	492.84	71.69	567.52	1,893.04	
Nutrient balance	-128.46	26.26	-204.25	781.15	
Applied to removed ratio	0.74	1.37	0.64	1.41	
Total harvests for the crop					1 harvests

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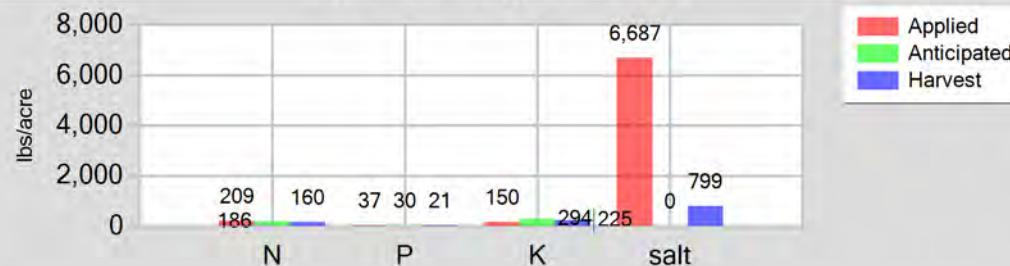
Reporting period 01/01/2023 to 12/31/2023.

I208 - 06/12/2023: Tomato

Field name: I208

Crop: Tomato

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	40.00	0.00	0.00	0.00
Dry manure	127.45	36.51	150.02	3,511.63
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	34.58	0.00	0.00	3,174.88
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>209.04</b>	<b>36.51</b>	<b>150.02</b>	<b>6,686.50</b>
Anticipated crop nutrient removal	186.00	30.00	294.00	0.00
Actual crop nutrient removal	160.36	21.38	224.51	799.15
Nutrient balance	48.67	15.13	-74.49	5,887.36
Applied to removed ratio	1.30	1.71	0.67	8.37

**Fresh water applied**

63,962,880.00 gallons  
2,355.54 acre-inches  
30.59 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

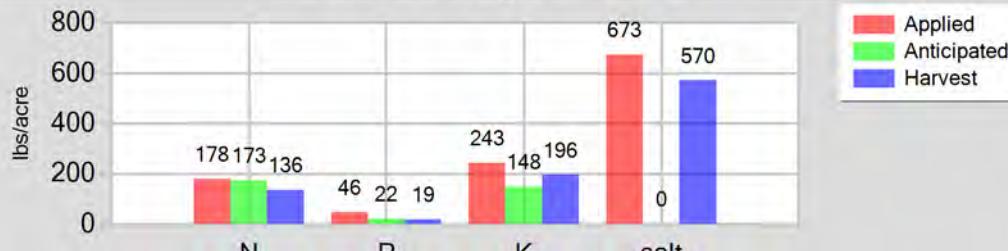
**Total harvests for the crop**

1 harvests

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

I209 - 01/01/2004: Almond, in shell

Field name: I209Crop: Almond, in shellPlant date: 01/01/2004**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	20.00	0.00	0.00	0.00
Dry manure	135.77	45.86	242.77	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.31	0.00	0.00	673.02
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	178.08	45.86	242.77	673.02
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	136.41	18.64	195.71	570.50
Nutrient balance	41.68	27.22	47.06	102.52
Applied to removed ratio	1.31	2.46	1.24	1.18

**Fresh water applied**

36,849,120.00 *gallons*  
1,357.03 *acre-inches*  
36.68 *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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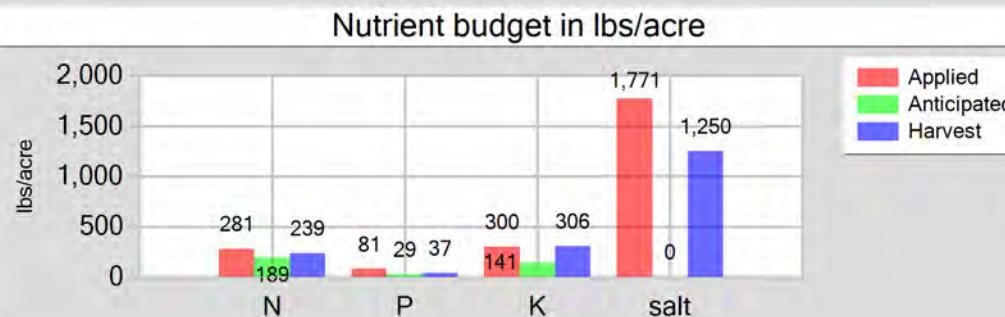
Reporting period 01/01/2023 to 12/31/2023.

I212 - 11/10/2022: Rye Grass Silage

Field name: I212

Crop: Rye Grass Silage

Plant date: 11/10/2022



	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	41,204,160.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,517.41 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	19.71 inches/acre
Dry manure	259.17	80.93	300.14	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	14.36	0.00	0.00	1,770.61	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	280.52	80.93	300.14	1,770.61	Process wastewater applied
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	0.00 gallons
Actual crop nutrient removal	238.61	37.03	306.49	1,249.55	0.00 acre-inches
Nutrient balance	41.91	43.90	-6.35	521.06	0.00 inches/acre
Applied to removed ratio	1.18	2.19	0.98	1.42	Total harvests for the crop
					1 harvests

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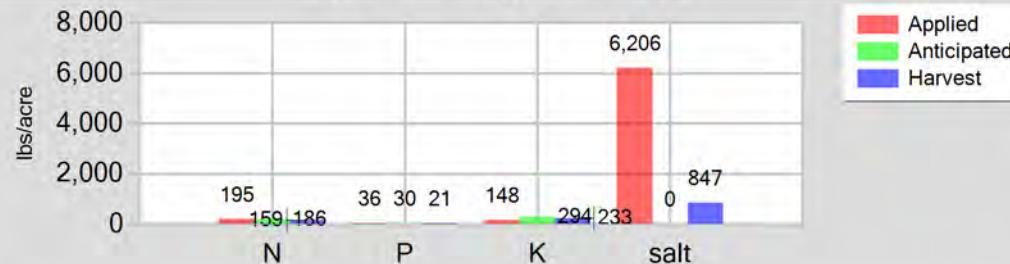
I212 - 06/12/2023: Tomato

Field name: I212

Crop: Tomato

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	63,854,400.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,351.54 acre-inches
Commercial fertilizer / Other	40.00	0.00	0.00	0.00	30.54 inches/acre
Dry manure	125.65	35.99	147.90	3,461.89	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	22.25	0.00	0.00	2,743.92	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
					0.00 inches/acre
Total nutrients applied	194.90	35.99	147.90	6,205.81	Total harvests for the crop
Anticipated crop nutrient removal	186.00	30.00	294.00	0.00	1 harvests
Actual crop nutrient removal	158.92	21.19	233.08	846.73	
Nutrient balance	35.98	14.80	-85.19	5,359.08	
Applied to removed ratio	1.23	1.70	0.63	7.33	

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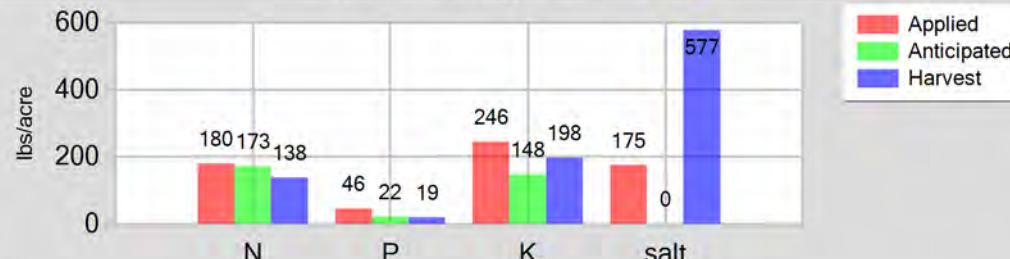
Reporting period 01/01/2023 to 12/31/2023.

I213 - 01/01/2012: Almond, in shell

Field name: I213

Crop: Almond, in shell

Plant date: 01/01/2012

**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	76,080,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,801.77 acre-inches
Commercial fertilizer / Other	20.00	0.00	0.00	0.00	36.87 inches/acre
Dry manure	137.45	46.43	245.78	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	8.35	0.00	0.00	175.43	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	179.81	46.43	245.78	175.43	
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	
Actual crop nutrient removal	137.87	18.84	197.82	576.63	
Nutrient balance	41.94	27.59	47.96	-401.20	
Applied to removed ratio	1.30	2.46	1.24	0.30	
Total harvests for the crop					1 harvests

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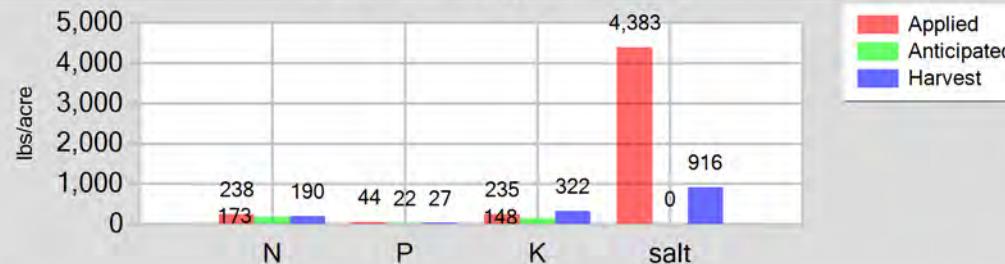
Reporting period 01/01/2023 to 12/31/2023.

I401 - 08/30/2015: Almond, in shell

Field name: I401

Crop: Almond, in shell

Plant date: 08/30/2015

**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	30.00	0.00	0.00	0.00
Dry manure	131.65	44.46	235.39	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	62.10	0.00	0.00	4,382.97
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>237.75</b>	<b>44.46</b>	<b>235.39</b>	<b>4,382.97</b>
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	189.79	26.94	322.02	915.87
Nutrient balance	47.96	17.53	-86.63	3,467.10
Applied to removed ratio	1.25	1.65	0.73	4.79

**Fresh water applied**

76,230,000.00 gallons  
2,807.29 acre-inches  
36.94 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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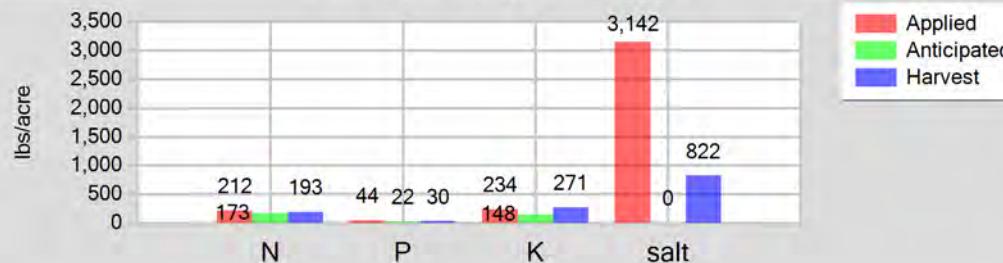
Reporting period 01/01/2023 to 12/31/2023.

I402 - 08/30/2014: Almond, in shell

Field name: I402

Crop: Almond, in shell

Plant date: 08/30/2014

**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	30.00	0.00	0.00	0.00
Dry manure	130.64	44.12	233.59	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	37.29	0.00	0.00	3,141.98
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	211.93	44.12	233.59	3,141.98
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	193.20	30.38	270.96	822.25
Nutrient balance	18.73	13.75	-37.37	2,319.73
Applied to removed ratio	1.10	1.45	0.86	3.82

**Fresh water applied**

79,095,600.00 gallons  
2,912.82 acre-inches  
36.87 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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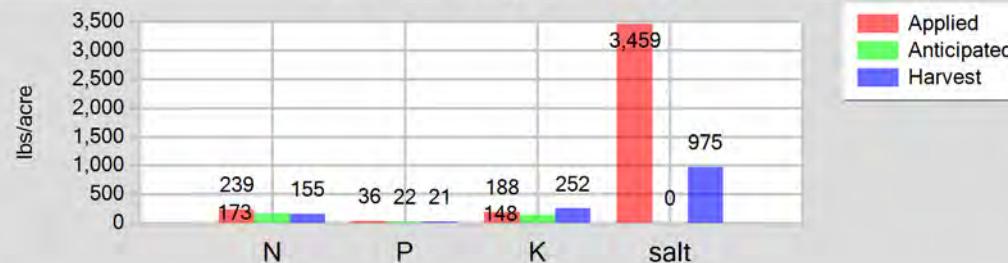
I403 - 08/30/2015: Almond, in shell

Field name: I403

Crop: Almond, in shell

Plant date: 08/30/2015

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	80,136,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,951.14 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	37.36 inches/acre
Dry manure	105.36	35.59	188.40	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	89.14	0.00	0.00	3,459.47	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	238.50	35.59	188.40	3,459.47	
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	
Actual crop nutrient removal	155.49	20.81	252.22	975.08	
Nutrient balance	83.01	14.77	-63.82	2,484.39	
Applied to removed ratio	1.53	1.71	0.75	3.55	
Total harvests for the crop					1 harvests

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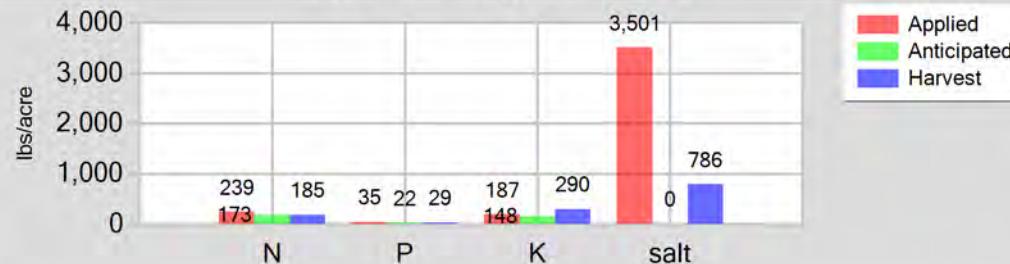
I404 - 08/30/2014: Almond, in shell

Field name: I404

Crop: Almond, in shell

Plant date: 08/30/2014

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	81,090,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,986.27 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	37.80 inches/acre
Dry manure	104.56	35.32	186.97	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	90.20	0.00	0.00	3,500.65	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	238.76	35.32	186.97	3,500.65	
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	
Actual crop nutrient removal	184.69	29.16	290.40	785.88	
Nutrient balance	54.07	6.15	-103.43	2,714.77	
Applied to removed ratio	1.29	1.21	0.64	4.45	
Total harvests for the crop					1 harvests

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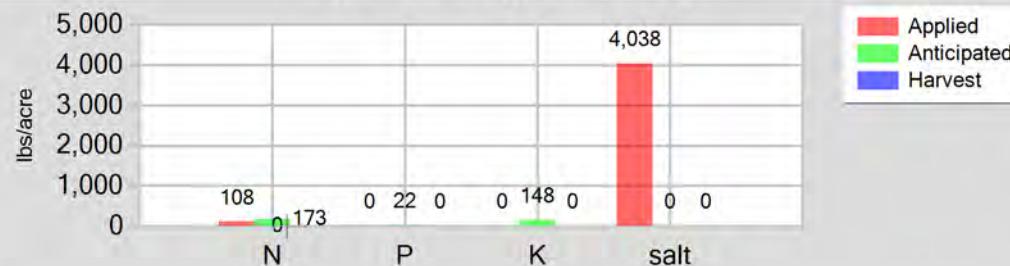
Reporting period 01/01/2023 to 12/31/2023.

I405 - 01/01/2020: Almond, in shell

Field name: I405

Crop: Almond, in shell

Plant date: 01/01/2020

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	77,069,340.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,838.20 acre-inches
Commercial fertilizer / Other	40.00	0.00	0.00	0.00	37.34 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	53.69	0.00	0.00	4,037.65	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	107.69	0.00	0.00	4,037.65	0.00 acre-inches
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	0.00 inches/acre
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	107.69	0.00	0.00	4,037.65	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**

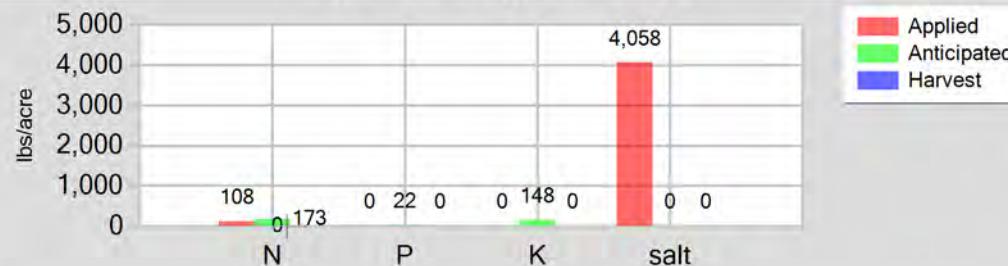
Reporting period 01/01/2023 to 12/31/2023.

I406 - 01/01/2020: Almond, in shell

Field name: I406

Crop: Almond, in shell

Plant date: 01/01/2020

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	76,442,760.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,815.13 acre-inches
Commercial fertilizer / Other	40.00	0.00	0.00	0.00	37.54 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	53.96	0.00	0.00	4,058.22	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	107.96	0.00	0.00	4,058.22	0.00 acre-inches
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	0.00 inches/acre
Actual crop nutrient removal	0.00	0.00	0.00	0.00	Total harvests for the crop
Nutrient balance	107.96	0.00	0.00	4,058.22	1 harvests
Applied to removed ratio	0.00	0.00	0.00	0.00	

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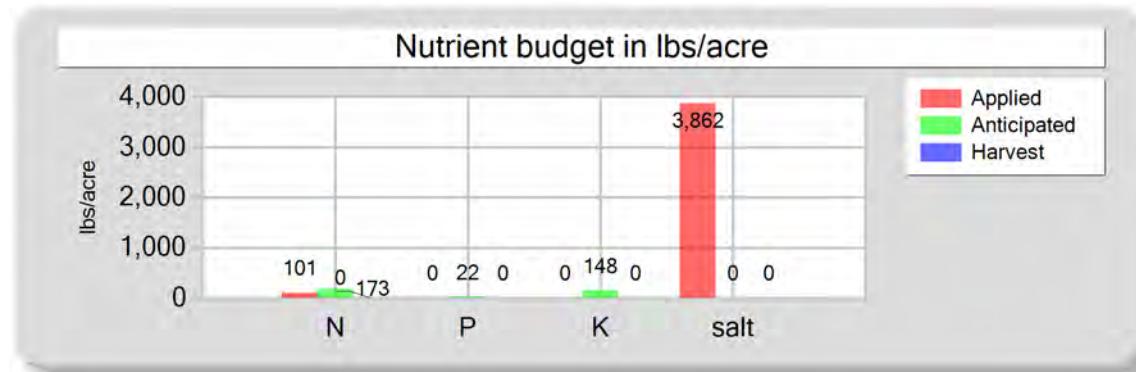
Reporting period 01/01/2023 to 12/31/2023.

I407 - 01/01/2020: Almond, in shell

Field name: I407

Crop: Almond, in shell

Plant date: 01/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	40.00	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	46.99	0.00	0.00	3,861.94
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	100.99	0.00	0.00	3,861.94
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	100.99	0.00	0.00	3,861.94
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**  
78,043,680.00 gallons  
2,874.08 acre-inches  
37.33 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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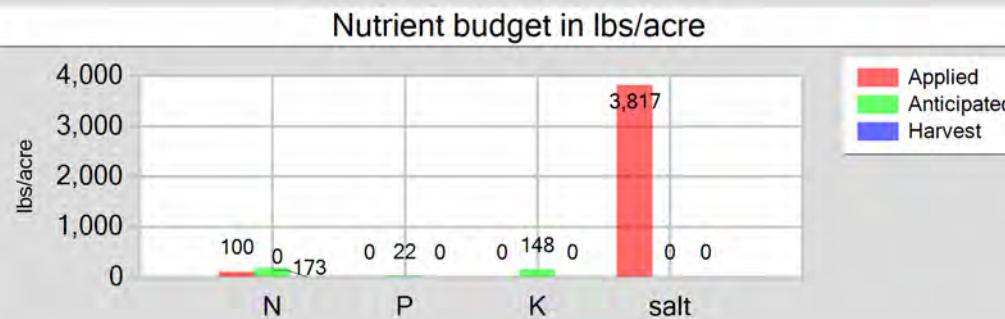
Reporting period 01/01/2023 to 12/31/2023.

I408 - 01/01/2020: Almond, in shell

Field name: I408

Crop: Almond, in shell

Plant date: 01/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	40.00	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	46.44	0.00	0.00	3,817.05
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	100.44	0.00	0.00	3,817.05
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	100.44	0.00	0.00	3,817.05
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

75,132,960.00 gallons  
2,766.89 acre-inches  
36.89 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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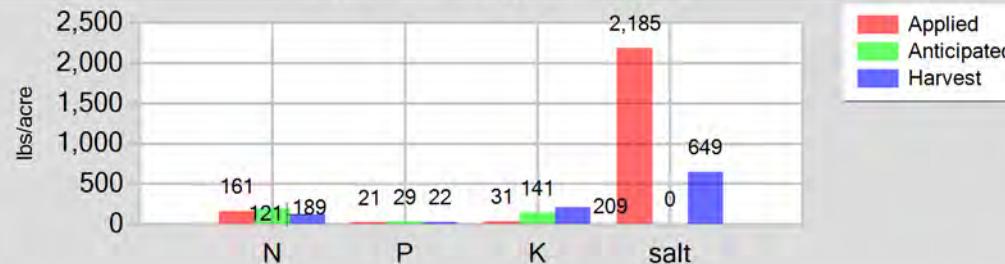
Reporting period 01/01/2023 to 12/31/2023.

I409 - 11/04/2022: Rye Grass Silage

Field name: I409

Crop: Rye Grass Silage

Plant date: 11/04/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	37,800,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,392.05 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.62 inches/acre
Dry manure	144.49	21.11	30.85	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	10.00	0.00	0.00	2,184.70	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	161.48	21.11	30.85	2,184.70	Process wastewater applied
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	0.00 gallons
Actual crop nutrient removal	120.74	22.31	208.67	649.16	0.00 acre-inches
Nutrient balance	40.75	-1.21	-177.82	1,535.54	0.00 inches/acre
Applied to removed ratio	1.34	0.95	0.15	3.37	Total harvests for the crop
					1 harvests

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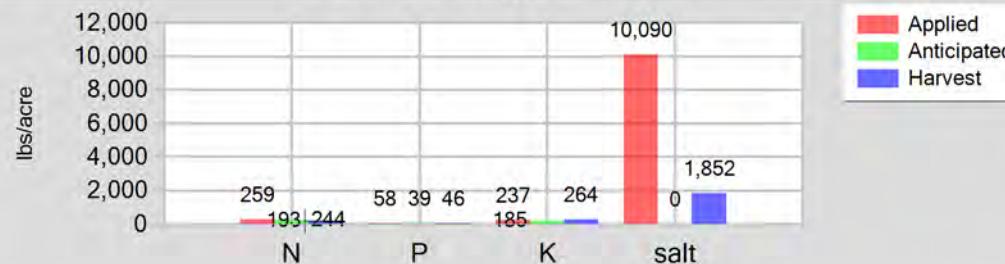
Reporting period 01/01/2023 to 12/31/2023.

I409 - 05/08/2023: Corn, silage

Field name: I409

Crop: Corn, silage

Plant date: 05/08/2023

**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	30.00	0.00	0.00	0.00
Dry manure	201.65	57.76	237.36	5,555.87
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	20.75	0.00	0.00	4,534.47
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>259.40</b>	<b>57.76</b>	<b>237.36</b>	<b>10,090.33</b>
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00
Actual crop nutrient removal	192.92	45.69	263.99	1,851.61
Nutrient balance	66.48	12.07	-26.64	8,238.72
Applied to removed ratio	1.34	1.26	0.90	5.45

**Fresh water applied**

78,456,000.00 gallons  
2,889.27 acre-inches  
36.57 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.

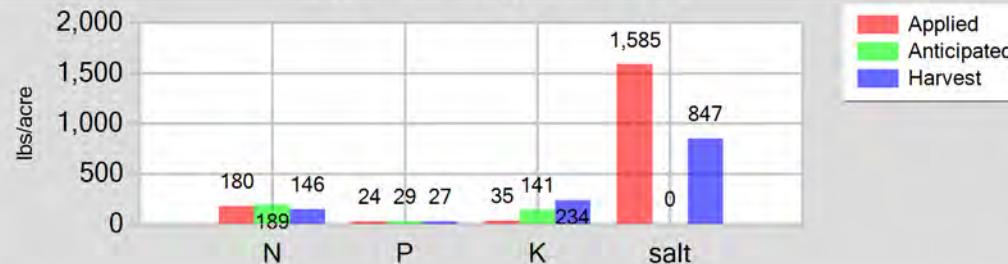
I410 - 11/04/2022: Rye Grass Silage

Field name: I410

Crop: Rye Grass Silage

Plant date: 11/04/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	164.95	24.09	35.21	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.94	0.00	0.00	1,584.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	179.89	24.09	35.21	1,584.83
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	146.01	26.82	233.91	847.05
Nutrient balance	33.88	-2.72	-198.69	737.78
Applied to removed ratio	1.23	0.90	0.15	1.87

## Fresh water applied

35,868,000.00 gallons  
1,320.90 acre-inches  
18.35 inches/acre

## Process wastewater applied

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

## Total harvests for the crop

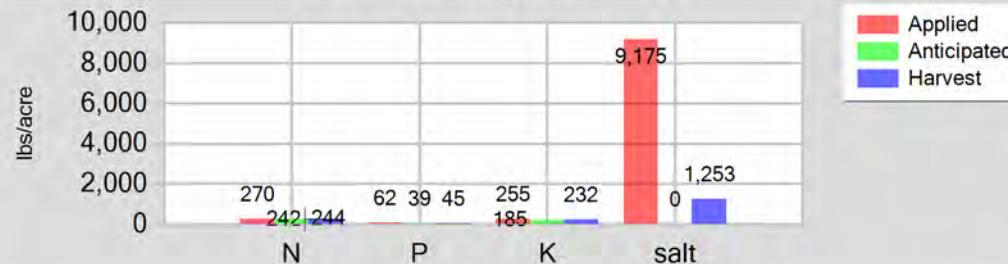
1 harvests

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

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

I410 - 05/03/2023: Corn, silage

Field name: I410      Crop: Corn, silage      Plant date: 05/03/2023

**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	72,324,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,663.45 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	36.99 inches/acre
Dry manure	217.01	62.16	255.44	5,978.99	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	16.01	0.00	0.00	3,195.63	0.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 acre-inches
Total nutrients applied	270.02	62.16	255.44	9,174.63	0.00 inches/acre
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00	
Actual crop nutrient removal	242.28	44.50	232.39	1,252.63	Total harvests for the crop
Nutrient balance	27.74	17.66	23.05	7,922.00	1 harvests
Applied to removed ratio	1.11	1.40	1.10	7.32	

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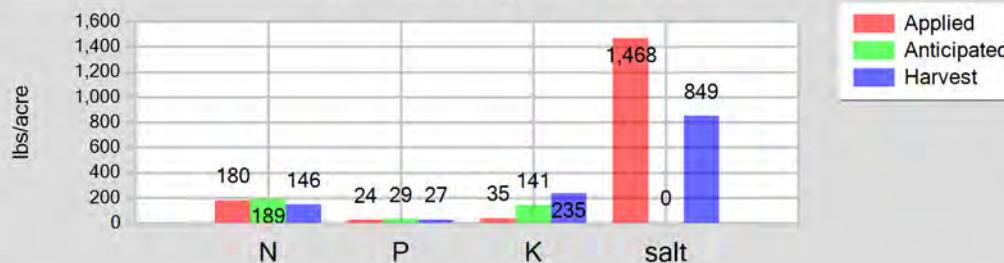
Reporting period 01/01/2023 to 12/31/2023.

I411 - 11/04/2022: Rye Grass Silage

Field name: I411

Crop: Rye Grass Silage

Plant date: 11/04/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	33,222,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,223.45 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.99 inches/acre
Dry manure	165.37	24.15	35.30	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	7.36	0.00	0.00	1,467.91	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	179.72	24.15	35.30	1,467.91	Process wastewater applied
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	0.00 gallons
Actual crop nutrient removal	146.40	26.89	234.54	849.34	0.00 acre-inches
Nutrient balance	33.32	-2.74	-199.24	618.58	0.00 inches/acre
Applied to removed ratio	1.23	0.90	0.15	1.73	Total harvests for the crop
					1 harvests

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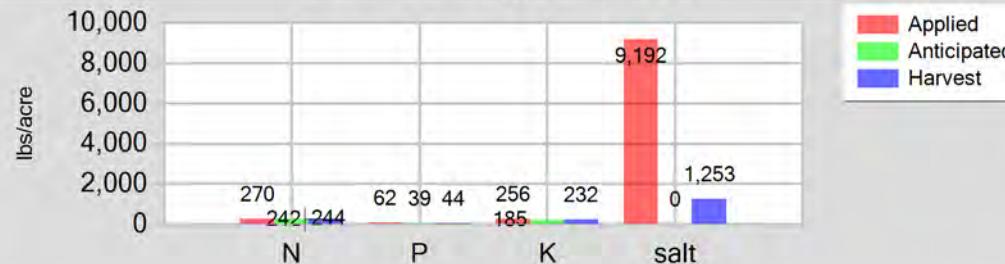
Reporting period 01/01/2023 to 12/31/2023.

I411 - 05/03/2023: Corn, silage

Field name: I411

Crop: Corn, silage

Plant date: 05/03/2023

**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	72,471,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,668.86 acre-inches
Commercial fertilizer / Other	30.00	0.00	0.00	0.00	37.07 inches/acre
Dry manure	217.39	62.27	255.89	5,989.63	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	16.04	0.00	0.00	3,202.13	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	270.44	62.27	255.89	9,191.76	
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00	
Actual crop nutrient removal	242.26	44.50	232.38	1,252.56	
Nutrient balance	28.17	17.78	23.51	7,939.21	
Applied to removed ratio	1.12	1.40	1.10	7.34	
Total harvests for the crop					1 harvests

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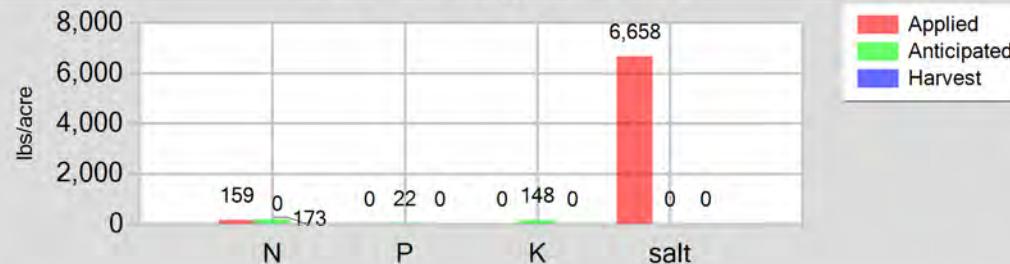
Reporting period 01/01/2023 to 12/31/2023.

I501 - 01/01/2020: Almond, in shell

Field name: I501

Crop: Almond, in shell

Plant date: 01/01/2020

**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	40.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	104.58	0.00	0.00	6,658.43
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	158.58	0.00	0.00	6,658.43
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	158.58	0.00	0.00	6,658.43
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

76,816,200.00 *gallons*  
 2,828.88 *acre-inches*  
 37.72 *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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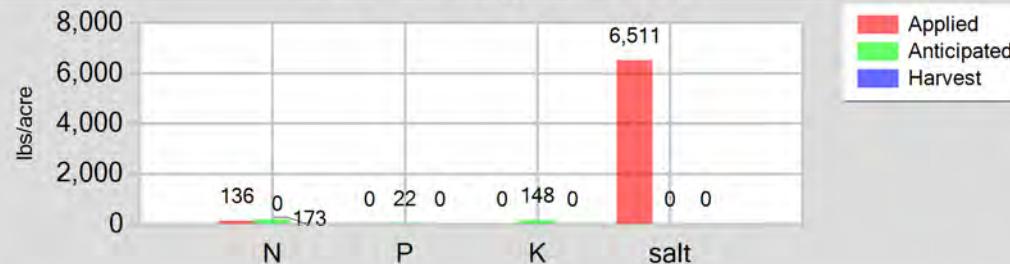
Reporting period 01/01/2023 to 12/31/2023.

I502 - 01/01/2020: Almond, in shell

Field name: I502

Crop: Almond, in shell

Plant date: 01/01/2020

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	78,315,900.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,884.11 acre-inches
Commercial fertilizer / Other	40.00	0.00	0.00	0.00	37.46 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	81.95	0.00	0.00	6,511.11	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	135.95	0.00	0.00	6,511.11	Process wastewater applied
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	0.00 gallons
Actual crop nutrient removal	0.00	0.00	0.00	0.00	0.00 acre-inches
Nutrient balance	135.95	0.00	0.00	6,511.11	0.00 inches/acre
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.

I503 - 01/01/2020: Almond, in shell

Field name: I503

Crop: Almond, in shell

Plant date: 01/01/2020

**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	40.00	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	100.04	0.00	0.00	7,128.48
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	154.04	0.00	0.00	7,128.48
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	154.04	0.00	0.00	7,128.48
Applied to removed ratio	0.00	0.00	0.00	0.00

**Fresh water applied**

76,095,000.00 gallons  
2,802.32 acre-inches  
37.36 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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

I504 - 01/01/2020: Almond, in shell

Field name: I504

Crop: Almond, in shell

Plant date: 01/01/2020

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	78,147,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,877.89 acre-inches
Commercial fertilizer / Other	40.00	0.00	0.00	0.00	37.87 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	101.39	0.00	0.00	7,224.39	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	155.39	0.00	0.00	7,224.39	
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	Process wastewater applied
Actual crop nutrient removal	0.00	0.00	0.00	0.00	0.00 gallons
Nutrient balance	155.39	0.00	0.00	7,224.39	0.00 acre-inches
Applied to removed ratio	0.00	0.00	0.00	0.00	0.00 inches/acre
					Total harvests for the crop
					1 harvests

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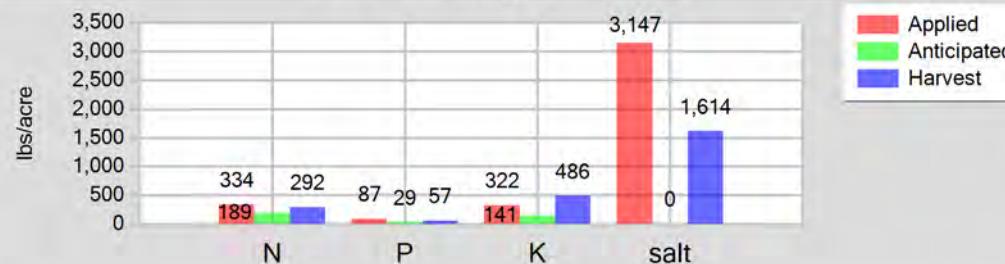
Reporting period 01/01/2023 to 12/31/2023.

I505 - 11/08/2022: Rye Grass Silage

Field name: I505

Crop: Rye Grass Silage

Plant date: 11/08/2022

**Nutrient budget in lbs/acre**

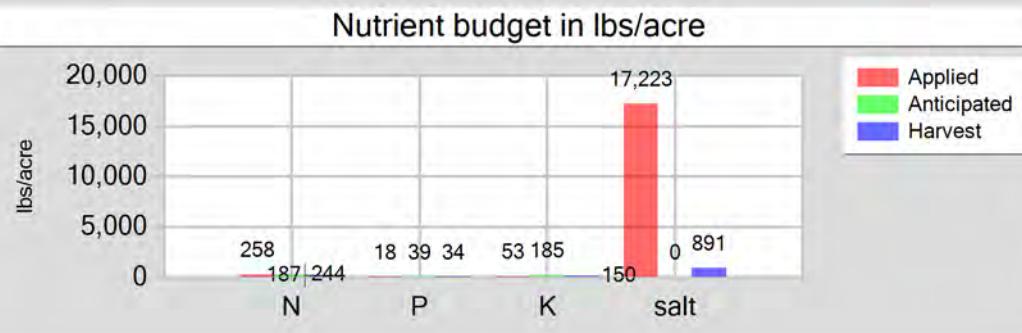
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	35,384,760.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,303.10 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.92 inches/acre
Dry manure	277.64	86.70	321.54	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	49.20	0.00	0.00	3,147.50	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	333.85	86.70	321.54	3,147.50	
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00	
Actual crop nutrient removal	292.21	57.17	485.96	1,613.91	
Nutrient balance	41.64	29.52	-164.41	1,533.58	
Applied to removed ratio	1.14	1.52	0.66	1.95	
Total harvests for the crop					1 harvests

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

I505 - 06/26/2023: Corn, silage

Field name: I505      Crop: Corn, silage      Plant date: 06/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	30.00	0.00	0.00	0.00
Dry manure	120.22	17.59	52.78	10,775.92
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	100.79	0.00	0.00	6,447.51
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>258.01</b>	<b>17.59</b>	<b>52.78</b>	<b>17,223.43</b>
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00
Actual crop nutrient removal	187.24	33.70	149.79	891.24
<b>Nutrient balance</b>	<b>70.78</b>	<b>-16.11</b>	<b>-97.01</b>	<b>16,332.19</b>
Applied to removed ratio	1.38	0.52	0.35	19.33

**Fresh water applied**  
72,484,200.00 gallons  
2,669.35 acre-inches  
34.67 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**

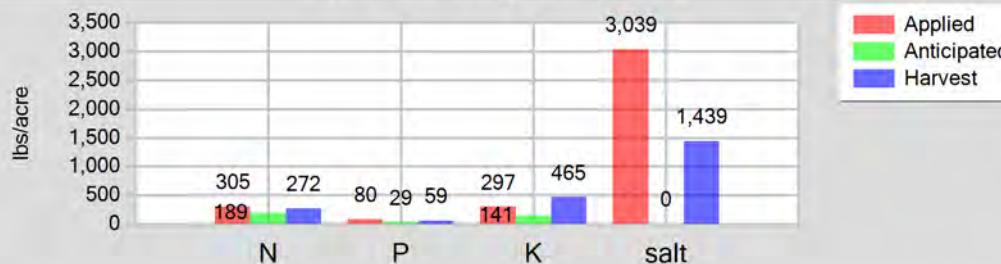
Reporting period 01/01/2023 to 12/31/2023.

I506 - 11/08/2022: Rye Grass Silage

Field name: I506

Crop: Rye Grass Silage

Plant date: 11/08/2022

**Nutrient budget in lbs/acre**

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	256.83	80.20	297.43	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	40.79	0.00	0.00	3,039.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.61	80.20	297.43	3,039.38
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	272.46	59.14	464.66	1,439.29
Nutrient balance	32.15	21.06	-167.23	1,600.09
Applied to removed ratio	1.12	1.36	0.64	2.11

**Fresh water applied**

43,806,000.00 gallons  
1,613.23 acre-inches  
16.13 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.

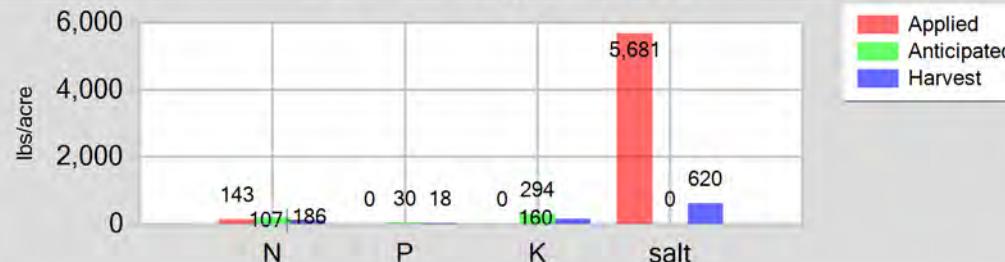
I506 - 06/15/2023: Tomato

Field name: I506

Crop: Tomato

Plant date: 06/15/2023

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	81,879,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,015.33 acre-inches
Commercial fertilizer / Other	60.00	0.00	0.00	0.00	30.15 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	76.23	0.00	0.00	5,680.99	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	143.23	0.00	0.00	5,680.99	
Anticipated crop nutrient removal	186.00	30.00	294.00	0.00	
Actual crop nutrient removal	106.89	17.82	160.34	620.16	
Nutrient balance	36.34	-17.82	-160.34	5,060.83	
Applied to removed ratio	1.34	0.00	0.00	9.16	
Total harvests for the crop					1 harvests

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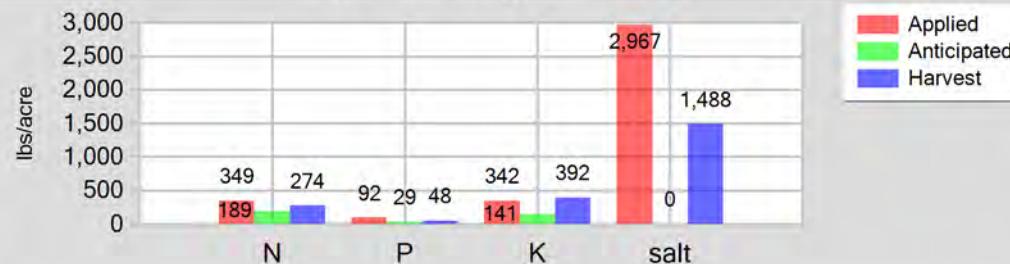
I507 - 11/08/2022: Rye Grass Silage

Field name: I507

Crop: Rye Grass Silage

Plant date: 11/08/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	295.66	92.32	342.41	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	46.39	0.00	0.00	2,967.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	349.05	92.32	342.41	2,967.24
Anticipated crop nutrient removal	188.70	28.90	141.10	0.00
Actual crop nutrient removal	274.28	47.58	391.83	1,487.73
Nutrient balance	74.76	44.74	-49.43	1,479.51
Applied to removed ratio	1.27	1.94	0.87	1.99

## Fresh water applied

33,358,320.00 gallons  
1,228.47 acre-inches  
15.95 inches/acre

## Process wastewater applied

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

## Total harvests for the crop

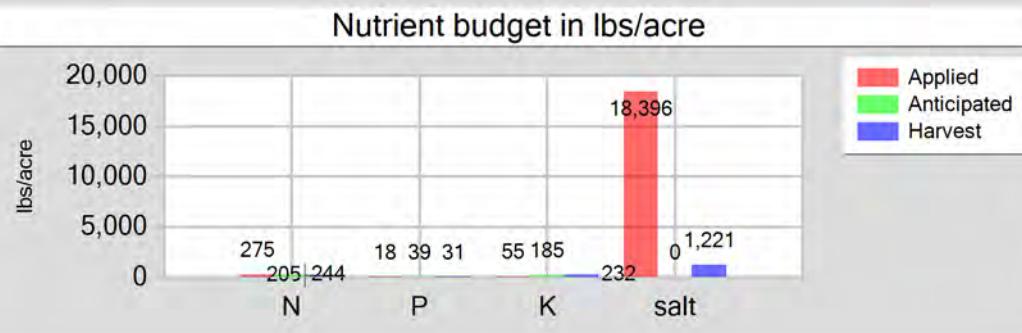
1 harvests

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

I507 - 06/27/2023: Corn, silage

Field name: I507      Crop: Corn, silage      Plant date: 06/27/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	30.00	0.00	0.00	0.00
Dry manure	124.18	18.17	54.52	11,130.73
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	113.58	0.00	0.00	7,265.58
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>274.76</b>	<b>18.17</b>	<b>54.52</b>	<b>18,396.31</b>
Anticipated crop nutrient removal	243.60	39.20	184.80	0.00
Actual crop nutrient removal	204.87	30.92	231.93	1,221.40
<b>Nutrient balance</b>	<b>69.89</b>	<b>-12.75</b>	<b>-177.41</b>	<b>17,174.91</b>
Applied to removed ratio	1.34	0.59	0.24	15.06

**Fresh water applied**  
81,681,120.00 gallons  
3,008.04 acre-inches  
39.07 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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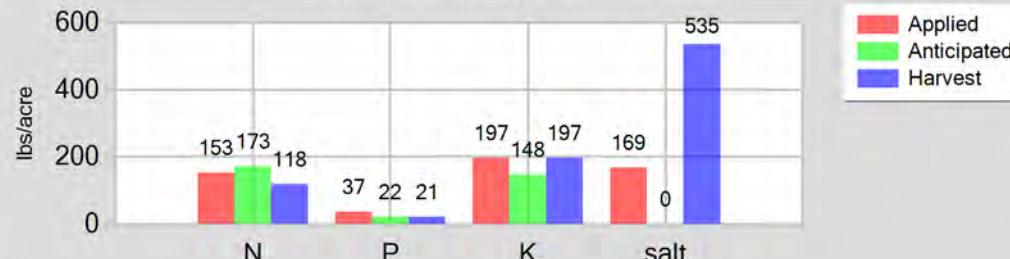
Reporting period 01/01/2023 to 12/31/2023.

I701 - 09/30/2016: Almond, in shell

Field name: I701

Crop: Almond, in shell

Plant date: 09/30/2016

**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	20.00	0.00	0.00	0.00
Dry manure	110.14	37.20	196.94	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.43	0.00	0.00	168.50
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	152.57	37.20	196.94	168.50
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00
Actual crop nutrient removal	118.49	21.07	196.61	534.69
Nutrient balance	34.07	16.13	0.33	-366.19
Applied to removed ratio	1.29	1.77	1.00	0.32

**Fresh water applied**

50,480,640.00 gallons  
1,859.03 acre-inches  
37.18 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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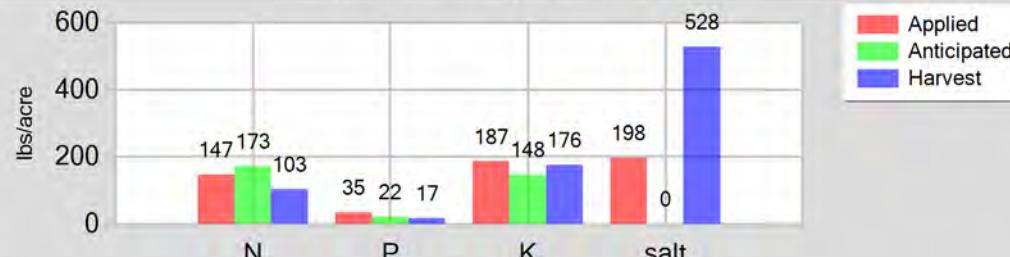
Reporting period 01/01/2023 to 12/31/2023.

I801 - 01/01/2018: Almond, in shell

Field name: I801

Crop: Almond, in shell

Plant date: 01/01/2018

**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	84,430,080.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,109.27 acre-inches
Commercial fertilizer / Other	20.00	0.00	0.00	0.00	37.92 inches/acre
Dry manure	104.33	35.24	186.54	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	8.59	0.00	0.00	197.62	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	146.92	35.24	186.54	197.62	
Anticipated crop nutrient removal	172.80	21.60	147.60	0.00	
Actual crop nutrient removal	102.92	17.15	176.44	528.24	
Nutrient balance	44.00	18.08	10.10	-330.62	
Applied to removed ratio	1.43	2.05	1.06	0.37	
Total harvests for the crop					1 harvests

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

**NUTRIENT ANALYSES****A. MANURE ANALYSES****Corral Solids**

Sample and source description: Corral Solids

Sample date: 09/28/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 29.7 %

	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>	25,300.00	7,900.00	29,300.00							
<b>DL</b>	100.00	100.00	100.00							

**Drying Solids**

Sample and source description: Drying Solids

Sample date: 09/28/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,800.00	2,600.00	3,800.00							
<b>DL</b>	100.00	100.00	100.00							

**Separator Solids**

Sample and source description: Separator Solids

Sample date: 09/28/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 30.4 %

	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>	15,100.00	5,100.00	27,000.00							
<b>DL</b>	100.00	100.00	100.00							

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**Corral Solids DM2**Sample and source description: Corral Solids DM2Sample date: 04/17/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 27.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,200.00	5,500.00	22,600.00	19,900.00	10,300.00	4,700.00	4,300.00	6,000.00		52.90
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

**Drying Solids DM1**Sample and source description: Drying Solids DM1Sample date: 04/17/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 35.0 %

	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 (%)
Value	22,100.00	9,200.00	32,500.00	29,800.00	15,300.00	8,600.00	7,500.00	11,000.00		59.10
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

**Separator Solids DM2**Sample and source description: Separator Solids DM2Sample date: 04/17/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 46.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,200.00	1,200.00	3,600.00	16,500.00	4,900.00	700.00	2,000.00	0.00		73.50
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

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

**Corral Solids**Sample and source description: Corral SolidsSample date: 10/02/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 19.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,300.00	5,100.00	19,300.00							
DL	100.00	100.00	100.00							

**Drying Solids**Sample and source description: Drying SolidsSample date: 10/02/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 27.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,300.00	6,800.00	25,700.00							
DL	100.00	100.00	100.00							

**Separator Solids**Sample and source description: Separator SolidsSample date: 10/02/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 73.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,000.00	3,800.00	7,600.00							
DL	100.00	100.00	100.00							

**B. PROCESS WASTEWATER ANALYSES**

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

**4thQWW**Sample and source description: 4thQWWSample date: 10/17/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

	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	256.00	197.00	0.00	1.50	47.00	257.00								4,130.00	2,360
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

**WW 1st Q SW Corner WW South**Sample and source description: WW 1st Q SW Corner WW SouthSample date: 02/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	168.00	156.00	0.00	0.60	56.20	442.00								5,410.00	2,700
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

**WW 2nd Q SW Corner WWS South**Sample and source description: WW 2nd Q SW Corner WWS SouthSample date: 06/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	180.00	34.30	0.00	1.30	34.00	192.00								2,630.00	17,760
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

**WW 3rd Q - SW Corner WWS South**Sample and source description: WW 3rd Q - SW Corner WWS SouthSample date: 09/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.80

	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	382.00	159.00	0.00	0.00	70.40	805.00	269.00	136.00	261.00	1,920.00	0.00	144.00	677.00	6,440.00	4,720
DL	1.00	0.50	0.50	0.10	0.10	0.50	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

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**WW 4th Q SW Corner WWS North**

Sample and source description: WW 4th Q SW Corner WWS North

Sample date: 10/23/2023 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	199.00	131.00	0.00	0.80	47.90	306.00									
DL	1.00	0.50	0.50	0.10	0.10	0.50									

**C. FRESH WATER ANALYSES****Canal Leon (CWD)****CWD Canal**

Sample description: CWD Canal

Sample date: 08/15/2023 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	1.00		0.10								20.70	23
DL	1.00		0.10								10.00	10

**FID Canal****FID Canal**

Sample description: FID Canal

Sample date: 08/15/2023 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	1.00		0.10								22.50	23
DL	1.00		0.10								10.00	10

**IFF 1**

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

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

**IFF 1****IFF IW #1**Sample description: IFF IW #1Sample date: 08/15/2023 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	1.00	0.00	0.20	20.20	6.70	30.00	95.20	0.00	6.40	22.80	263.00	205
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 10****IFF IW #10**Sample description: IFF IW #10Sample date: 08/15/2023 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	3.80	0.00	3.80	50.10	15.40	41.00	156.00	0.00	9.50	67.00	527.00	357
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	0.20	0.50	0.20	10.00	10

**IFF 112****IFF IW #112**Sample description: IFF IW #112Sample date: 08/15/2023 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	11.30	0.00	11.30	40.20	15.40	30.00	137.00	0.00	11.30	28.00	460.00	355
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 115**

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**IFF 115****IFF IW #115**

Sample description: IFF IW #115

Sample date: 08/15/2023 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	2.10	0.00	2.10	68.00	11.00	60.00	105.00	0.00	7.50	157.00	749.00	590
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 116 Reservoir****IFF Reservoir #116**

Sample description: IFF Reservoir #116

Sample date: 08/15/2023 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	4.11		3.60								501.00	295
DL	1.00		0.10								10.00	10

**IFF 13****IFF IW #13**

Sample description: IFF IW #13

Sample date: 08/15/2023 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	19.90	0.00	19.90	140.00	43.10	76.00	418.00	0.00	52.90	100.00	1,210.00	880
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 14**

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**IFF 14****IFF IW #14**Sample description: IFF IW #14Sample date: 08/15/2023 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	49.40	0.00	49.40	217.00	65.70	107.00	517.00	0.00	71.60	182.00	1,840.00	1,260
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 16****IFF #16**Sample description: IFF #16Sample date: 12/06/2023 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	12.10	0.00	11.60	156.00	44.40	94.00	455.00	0.00	69.90	102.00	192.00	770
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 17****IFF IW #17**Sample description: IFF IW #17Sample date: 08/15/2023 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	7.60	0.00	7.60	127.00	37.50	63.00	367.00	0.00	29.20	139.00	1,120.00	750
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 18**

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**IFF 18****IFF IW #18**Sample description: IFF IW #18Sample date: 08/15/2023 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	13.10	0.00	13.10	134.00	39.40	82.00	400.00	0.00	77.40	82.90	1,120.00	840
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 19****IFF IW #19**Sample description: IFF IW #19Sample date: 08/15/2023 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	10.30	0.00	10.10	132.00	39.10	90.00	384.00	0.00	91.30	114.00	1,170.00	860
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 20****IFF IW #20**Sample description: IFF IW #20Sample date: 08/15/2023 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	8.63	0.00	8.50	94.40	27.30	63.00	359.00	0.00	31.00	34.90	834.00	600
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 21**

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**IFF 21****IFF IW #21**Sample description: IFF IW #21Sample date: 08/15/2023 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	3.92	0.00	3.90	60.40	18.70	50.00	203.00	0.00	15.20	17.80	470.00	367
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 23****IFF IW #23**Sample description: IFF IW #23Sample date: 08/15/2023 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	7.60	0.00	7.59	79.80	22.40	51.00	259.00	0.00	40.30	31.10	679.00	480
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 24****IFF IW #24**Sample description: IFF IW #24Sample date: 08/15/2023 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	6.70	0.00	6.70	62.60	17.50	42.00	218.00	0.00	32.50	26.40	572.00	450
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 25**

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**IFF 25****IFF IW #25**Sample description: IFF IW #25Sample date: 08/15/2023 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	1.00	0.00	0.10	38.50	11.30	42.00	187.00	0.00	22.70	13.10	406.00	320
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 28****IFF IW #28**Sample description: IFF IW #28Sample date: 08/15/2023 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	1.60	0.00	1.60	63.00	19.50	57.00	136.00	0.00	4.90	152.00	746.00	610
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 3****IFF IW #3**Sample description: IFF IW #3Sample date: 08/15/2023 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	15.90	0.00	15.90	100.00	33.00	84.00	350.00	0.00	46.30	83.50	1,030.00	783
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 38**

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**IFF 38****IFF IW #38**

Sample description: IFF IW #38

Sample date: 08/15/2023 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	17.40	0.00	17.40	141.00	46.80	76.00	360.00	0.00	68.60	163.00	1,340.00	950
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 44****IFF IW #44**

Sample description: IFF IW #44

Sample date: 08/15/2023 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	1.50	0.00	0.40	29.00	8.90	35.00	135.00	0.00	8.40	24.90	344.00	210
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 47****IFF IW #47**

Sample description: IFF IW #47

Sample date: 08/15/2023 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	6.27	0.00	2.10	21.80	7.10	33.00	96.60	0.00	5.00	27.30	286.00	232
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 48**

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**IFF 48****IFF IW #48**Sample description: IFF IW #48Sample date: 08/15/2023 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	13.70	0.00	6.30	59.20	17.60	41.00	215.00	0.00	26.70	29.00	560.00	420
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 5****IFF IW #5**Sample description: IFF IW #5Sample date: 08/15/2023 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	4.91	0.00	4.90	34.70	10.80	33.00	139.00	0.00	8.10	23.30	378.00	285
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 52****IFF IW #52**Sample description: IFF IW #52Sample date: 08/25/2023 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	11.50	0.00	11.50	144.00	41.90	83.00	424.00	0.00	69.40	114.00	1,270.00	870
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 63**

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**IFF 63****IFF IW #63**

Sample description: IFF IW #63

Sample date: 08/15/2023 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	48.60	0.00	48.60	254.00	61.10	122.00	555.00	0.00	120.00	185.00	2,030.00	1,560
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 65****IFF IW #65**

Sample description: IFF IW #65

Sample date: 08/15/2023 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	27.30	0.00	27.30	169.00	53.00	86.00	480.00	0.00	48.90	114.00	1,450.00	1,090
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 68****IFF IW #68**

Sample description: IFF IW #68

Sample date: 08/15/2023 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	24.60	0.00	24.60	152.00	47.20	100.00	464.00	0.00	48.30	117.00	1,430.00	970
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 88**

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**IFF 88****IFF IW #88**

Sample description: IFF IW #88

Sample date: 08/15/2023 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	2.70	0.00	2.70	45.60	11.50	46.00	117.00	0.00	6.10	88.40	558.00	397
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 92****IFF IW #92**

Sample description: IFF IW #92

Sample date: 08/15/2023 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	18.00	0.00	18.00	125.00	41.50	90.00	431.00	0.00	64.70	72.60	1,220.00	860
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 93****IFF IW #93**

Sample description: IFF IW #93

Sample date: 08/15/2023 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	1.10	0.00	1.10	18.30	4.60	18.00	69.70	0.00	2.70	19.00	213.00	190
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF 95 Reservoir**

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**IFF 95 Reservoir****IFF Reservoir #95**Sample description: IFF Reservoir #95Sample date: 08/15/2023 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	12.40		10.80								1,340.00	790
DL	1.00		0.10								10.00	10

**IFF 96 Reservoir****IFF Reservoir #96**Sample description: IFF Reservoir #96Sample date: 08/15/2023 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	5.30		5.30								595.00	390
DL	1.00		0.10								10.00	10

**IFF 98 Reservoir****IFF Reservoir #98**Sample description: IFF Reservoir #98Sample date: 08/15/2023 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	4.77		4.60								662.00	395
DL	1.00		0.10								10.00	10

**IFF Dom #76**

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

**IFF Dom #76****IFF Dom #76**

Sample description: IFF Dom #76

Sample date: 08/15/2023 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	2.50	0.00	2.50	90.20	29.60	79.00	160.00	0.00	5.30	251.00	1,100.00	920
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**IFF Reservoir 30****IFF Reservoir #30**

Sample description: IFF Reservoir #30

Sample date: 08/15/2023 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	3.23		3.20								773.00	470
DL	1.00		0.10								10.00	10

**IFF Reservoir East****IFF Reservoir East**

Sample description: IFF Reservoir East

Sample date: 08/15/2023 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	1.00		0.10								23.60	21
DL	1.00		0.10								10.00	10

**MID**

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**MID****MID/IFF East/Olgetree Canal**Sample description: MID/IFF East/Olgetree CanalSample date: 08/15/2023 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	1.00		0.10								23.40	20
DL	1.00		0.10								10.00	10

**TID 18****TID #18**Sample description: TID #18Sample date: 08/15/2023 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	3.40	0.00	3.40	39.80	13.10	32.00	168.00	0.00	12.40	29.00	432.00	305
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

**TID 97 Reservoir****TID Reservoir #97**Sample description: TID Reservoir #97Sample date: 08/15/2023 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	1.81		1.20								248.00	162
DL	1.00		0.10								10.00	10

**D. SOIL ANALYSES**

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*No soil analyses entered.***E. PLANT TISSUE ANALYSES**

I101 - 01/01/2018: Almond, in shell

## Almonds

Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 8.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	1,400.00	18,200.00		5.20
DL	100.00	100.00	100.00		0.01

I102 - 10/01/2022: Rye Grass Silage

## Rye Grass Silage

Sample and source description: Rye Grass SilageSample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 69.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,400.00	1,300.00	13,200.00		14.03
DL	100.00	100.00	100.00		0.01

I102 - 06/06/2023: Corn, silage

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I102 - 06/06/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 57.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	1,100.00	6,700.00		6.70
DL	100.00	100.00	100.00		0.01

I103 - 10/20/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 57.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	2,200.00	20,300.00		13.10
DL	100.00	100.00	100.00		0.01

I103 - 06/20/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,400.00	700.00	4,100.00		5.40
DL	100.00	100.00	100.00		0.01

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I104 - 10/01/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 04/15/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 57.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	2,100.00	20,800.00		15.90
DL	100.00	100.00	100.00		0.01

I104 - 05/27/2023: Tomato

**Tomatoes**Sample and source description: TomatoesSample date: 10/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 94.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,200.00	200.00	2,000.00		10.50
DL	100.00	100.00	100.00		0.01

I105 - 10/01/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 63.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,100.00	19,300.00		14.87
DL	100.00	100.00	100.00		0.01

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I105 - 06/07/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	800.00	4,800.00		5.70
DL	100.00	100.00	100.00		0.01

I106 - 10/01/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 56.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	2,000.00	17,300.00		13.00
DL	100.00	100.00	100.00		0.01

I106 - 06/01/2023: Tomato

**Tomatoes**Sample and source description: TomatoesSample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 95.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,400.00	200.00	2,300.00		12.70
DL	100.00	100.00	100.00		0.01

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I1102 - 10/03/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,900.00	1,800.00	15,100.00		16.13
DL	100.00	100.00	100.00		0.01

I1102 - 06/23/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/14/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	800.00	4,300.00		7.50
DL	100.00	100.00	100.00		0.01

I1103 - 05/08/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 08/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	800.00	7,400.00		10.40
DL	100.00	100.00	100.00		0.01

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I1104 - 05/08/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 08/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	800.00	7,400.00		10.40
DL	100.00	100.00	100.00		0.01

I1201 - 01/01/2009: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 8.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,600.00	1,800.00	14,600.00		8.10
DL	100.00	100.00	100.00		0.01

I1301 - 02/01/2013: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 6.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	2,200.00	26,500.00		9.10
DL	100.00	100.00	100.00		0.01

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I201 - 10/25/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,700.00	1,800.00	16,400.00		15.03
DL	100.00	100.00	100.00		0.01

I201 - 06/12/2023: Tomato

**Tomatoes**Sample and source description: TomatoesSample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 94.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,100.00	200.00	2,000.00		11.50
DL	100.00	100.00	100.00		0.01

I202 - 09/16/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 55.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,000.00	1,600.00	14,400.00		13.25
DL	100.00	100.00	100.00		0.01

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I202 - 06/12/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	900.00	4,800.00		6.30
DL	100.00	100.00	100.00		0.01

I203 - 09/16/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 49.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,500.00	1,500.00	14,200.00		11.87
DL	100.00	100.00	100.00		0.01

I203 - 06/06/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/21/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,400.00	600.00	3,400.00		6.50
DL	100.00	100.00	100.00		0.01

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

I204 - 01/01/2004: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	2,300.00	27,500.00		8.30
DL	100.00	100.00	100.00		0.01

I205 - 10/25/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	1,900.00	16,900.00		15.00
DL	100.00	100.00	100.00		0.01

I205 - 06/12/2023: Tomato

**Tomatoes**Sample and source description: TomatoesSample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,300.00	200.00	2,400.00		11.90
DL	100.00	100.00	100.00		0.01

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I206 - 09/16/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 02/15/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 54.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	1,300.00	12,000.00		14.20
DL	100.00	100.00	100.00		0.01

I206 - 06/20/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/14/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	900.00	3,400.00		7.20
DL	100.00	100.00	100.00		0.01

I207 - 01/01/2005: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 10.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	2,300.00	27,500.00		8.30
DL	100.00	100.00	100.00		0.01

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I208 - 11/10/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 49.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	2,400.00	19,000.00		12.55
DL	100.00	100.00	100.00		0.01

I208 - 06/12/2023: Tomato

**Tomatoes**Sample and source description: TomatoesSample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 93.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,500.00	200.00	2,100.00		11.50
DL	100.00	100.00	100.00		0.01

I209 - 01/01/2004: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 11.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,100.00	2,200.00	23,100.00		7.60
DL	100.00	100.00	100.00		0.01

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I212 - 11/10/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 52.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,600.00	1,800.00	14,900.00		12.87
DL	100.00	100.00	100.00		0.01

I212 - 06/12/2023: Tomato

**Tomatoes**Sample and source description: TomatoesSample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 92.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,500.00	200.00	2,200.00		10.80
DL	100.00	100.00	100.00		0.01

I213 - 01/01/2012: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 11.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,100.00	2,200.00	23,100.00		7.60
DL	100.00	100.00	100.00		0.01

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I401 - 08/30/2015: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 6.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,500.00	2,200.00	26,300.00		8.00
DL	100.00	100.00	100.00		0.01

I402 - 08/30/2014: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 7.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,900.00	2,500.00	22,300.00		7.30
DL	100.00	100.00	100.00		0.01

I403 - 08/30/2015: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 9.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,700.00	1,700.00	20,600.00		8.80
DL	100.00	100.00	100.00		0.01

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

I404 - 08/30/2014: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 11.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,200.00	2,400.00	23,900.00		7.30
DL	100.00	100.00	100.00		0.01

I409 - 11/04/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 04/15/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 54.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,200.00	1,700.00	15,900.00		10.80
DL	100.00	100.00	100.00		0.01

I409 - 05/08/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	900.00	5,200.00		9.70
DL	100.00	100.00	100.00		0.01

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I410 - 11/04/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 56.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,800.00	1,800.00	15,700.00		13.10
DL	100.00	100.00	100.00		0.01

I410 - 05/03/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 52.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	900.00	4,700.00		5.30
DL	100.00	100.00	100.00		0.01

I411 - 11/04/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 04/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 56.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,800.00	1,800.00	15,700.00		13.10
DL	100.00	100.00	100.00		0.01

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I411 - 05/03/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 52.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	900.00	4,700.00		5.30
DL	100.00	100.00	100.00		0.01

I505 - 11/08/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 57.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,200.00	1,800.00	15,300.00		11.90
DL	100.00	100.00	100.00		0.01

I505 - 06/26/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 52.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	900.00	4,000.00		5.00
DL	100.00	100.00	100.00		0.01

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

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

I506 - 11/08/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 03/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 58.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	2,800.00	22,000.00		16.50
DL	100.00	100.00	100.00		0.01

I506 - 06/15/2023: Tomato

**Tomatoes**Sample and source description: TomatoesSample date: 10/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 94.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,200.00	200.00	1,800.00		11.80
DL	100.00	100.00	100.00		0.01

I507 - 11/08/2022: Rye Grass Silage

**Rye Grass Silage**Sample and source description: Rye Grass SilageSample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,800.00	1,700.00	14,000.00		13.70
DL	100.00	100.00	100.00		0.01

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

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

I507 - 06/27/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 11/04/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 48.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	800.00	6,000.00		6.10
DL	100.00	100.00	100.00		0.01

I701 - 09/30/2016: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 10/07/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 7.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	2,400.00	22,400.00		6.60
DL	100.00	100.00	100.00		0.01

I801 - 01/01/2018: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 11/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 4.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	2,100.00	21,600.00		6.80
DL	100.00	100.00	100.00		0.01

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

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

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

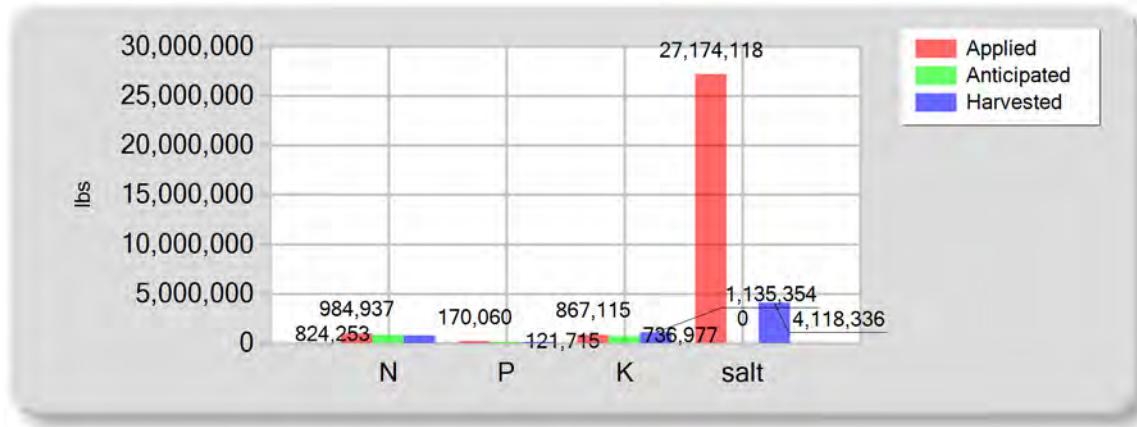
*No subsurface (tile) drainage analyses entered.*

**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	97,790.00	0.00	0.00	0.00
Dry manure	409,926.82	114,798.30	475,320.92	6,902,857.58
Process wastewater	246,504.43	55,261.44	391,794.20	7,218,434.68
Fresh water	190,367.46	0.00	0.00	13,052,825.99
Atmospheric deposition	40,348.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>984,936.71</b>	<b>170,059.74</b>	<b>867,115.12</b>	<b>27,174,118.25</b>
Anticipated crop nutrient removal	824,253.00	121,715.00	736,976.60	0.00
Actual crop nutrient removal	797,062.81	134,736.97	1,135,354.14	4,118,336.42
<b>Nutrient balance</b>	<b>187,873.90</b>	<b>35,322.77</b>	<b>-268,239.02</b>	<b>23,055,781.83</b>
Applied to removed ratio	1.24	1.26	0.76	6.60

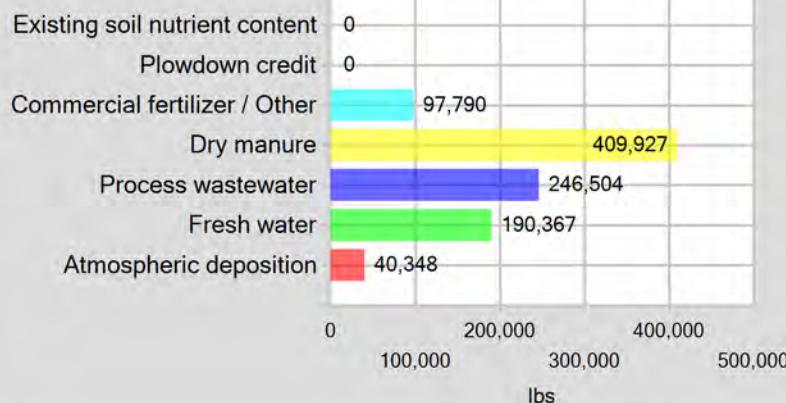
**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**

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

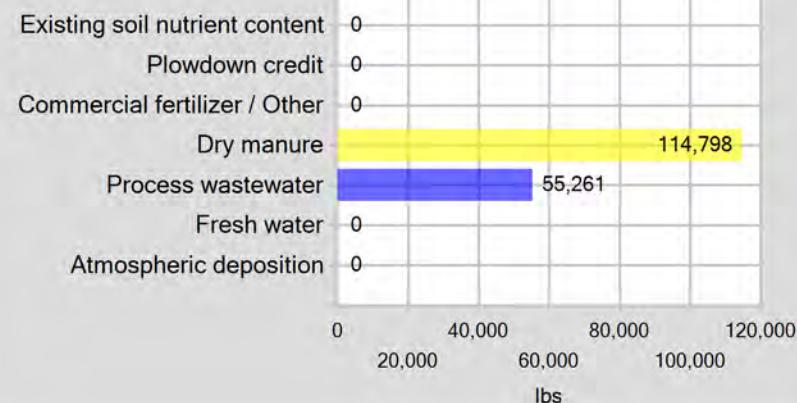
Reporting period 01/01/2023 to 12/31/2023.

## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

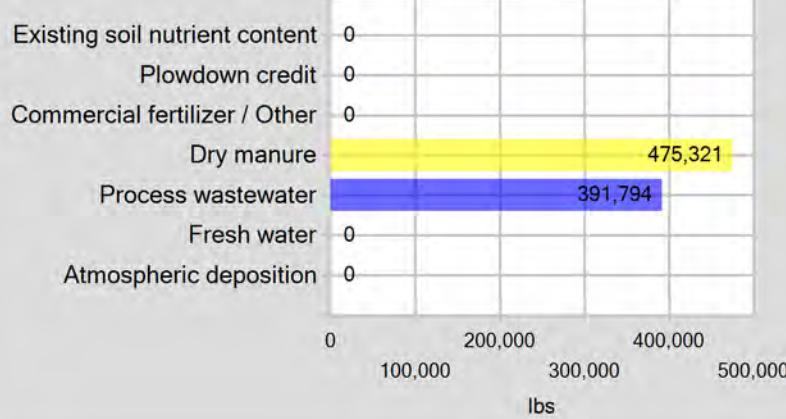
Pounds of nitrogen applied



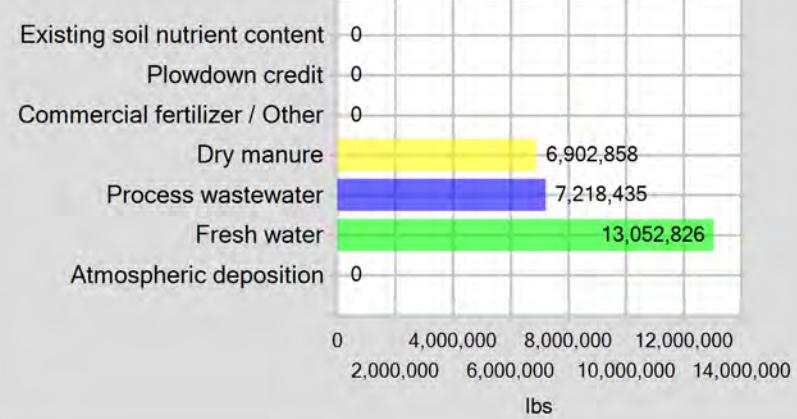
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

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

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

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

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

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

**ADDITIONAL NOTES**

**A. NOTES**

Precipitation utilized during winter months to meet forage freshwater requirements.

Irrigation wells IFF 2, 4, 11, 22, 37, 59, 61, 73, 82, 82 & 100 were non-operational or not used in 2023. All wells will be sampled once the wells become operational and/or used during the cropping season. Heavy rains during the winter season allowed for a greater amount of surface water allocation to grow crops.

Field I103 Corn, I403 Almonds, I801 Almonds, I1201 Almonds, & I1301 Almonds had lower than anticipated removal rates due to lower than anticipated %N or extremely low tonnage. This resulted in field ratios slightly exceeding target limits. I1301 Almonds field received commercial fertilizer only and received no solid manure or wastewater in 2023. I1301 also had low removals due to water issues causing the orchard to be in poor condition.

Fields I409 Rye Grass, I103 Corn, I201 Tomatoes, I205 Tomatoes, & I506 Tomatoes had lower than anticipated removal rates. This was due to lower than expected yields and/or a lower than expected %N. The %N was based on analysis that was derived through a certified laboratory. However, the applications to these fields matched the low removal rates and was able to meet the field ratio threshold of 1.4.

Fields I102-105 Rye Grass, I201 Rye Grass, I205 Rye Grass, I208 Rye Grass, & I1102 Rye Grass had higher than anticipated removal rates. This was due to much higher than expected %N and/or yield. The %N removed, which is based on analysis derived through a certified laboratory, exceeded the anticipated values for this crop. Appropriate management practices resulted in decent yields and/or higher than expected nutrient removal rates.

Nutrients applied to permanent crops, such as trees and vines, are used for tree growth, vine development and fruit production (grapes, nuts, etc.). Comparing nutrient applications to nutrient content of harvested material for permanent crops is not appropriate and will result in high field ratios. A more accurate reporting methodology will need to be developed in order to account for nutrients retained in the permanent crops. All applications will continue to be monitored closely to ensure that over application of nutrients does not occur.

Fields I101 Almonds, 201 Tomatoes, I205 Tomatoes, I405-408 Almonds, I501-504 Almonds, I506 Tomatoes, & I1301 Almonds received no wastewater or solid manure in 2023. All nutrients applied to these fields were contributed through freshwater applications and/or commercial fertilizer only.

Fields I405-408 & I501-504 Almonds are newly planted almonds and therefore had no production in 2023.

Fields I210, I211, I802, & I1101 Almonds were removed early 2023 and were fallow for field work.

Fields I1103 & I1104 were fallow during the winter cropping season 2023.

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

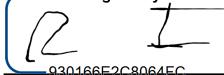
*Reporting period 01/01/2023 to 12/31/2023.*

**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.*

DocuSigned by:



R  
I  
030166E52C8064EC...

SIGNATURE OF OWNER OF FACILITY

Richard C Iest

PRINT OR TYPE NAME  
6/13/2024

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

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.

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

General Order No. R5-2007-0035, Attachment D

**INSTRUCTIONS**

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

**OPERATOR INFORMATION**Name of Operator: Richard IestName of Dairy Facility: Iest Family Farms

Facility Address:

14576 Avenue 14 Number and Street	Madera City	Madera County	93637 Zip Code
--------------------------------------	----------------	------------------	-------------------

Contact Person Name and Phone Number:	<u>Richard Iest</u> Name	(559) 647-9417 Phone Number
---------------------------------------	-----------------------------	--------------------------------

**MANURE HAULER INFORMATION**Name of Hauling Company/Person: Richie Iest Farms, Inc.

Address of Hauling Company/Person:

14676 Ave 14 Number and Street	Madera City	CA State	93637 Zip Code
-----------------------------------	----------------	-------------	-------------------

Contact Person:	<u>Richie Iest</u> Name	(559) 706-0749 Phone Number
-----------------	----------------------------	--------------------------------

**DESTINATION INFORMATION**Composting Facility / Broker / Farmer / Other (identify): Farmer

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

El Nido Ranch Name	(209) 675-8658 Phone Number
-----------------------	--------------------------------

7792 Nickle RD Address	Dos Palos City	CA State	93620 Zip Code
---------------------------	-------------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

7792 Nickle RD Address	Dos Palos City	93620 Zip Code
---------------------------	-------------------	-------------------

Street and nearest cross street (if no address)	Merced County
---	------------------

Assessor's Parcel Number                          Assessor's Parcel Number County                         Last date hauled: 07/10/2023

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

General Order No. R5-2007-0035, Attachment D

**MANURE AMOUNT HAULED**

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 6,186.00 tons

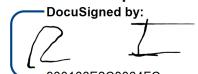
Manure Solids Content: 65.0 %

Method used to determine amount of manure:

Number of loads multiplied by load weight

**CERTIFICATION**

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

DocuSigned by:  
  
930166E2C8064EC  
Operator Signature  
DocuSigned by:  
  
Kirkie test  
Hauler Signature  
4D98ED86FFEE545A...

6/13/2024

Date

6/18/2024

Date

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

General Order No. R5-2007-0035, Attachment D

**INSTRUCTIONS**

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

**OPERATOR INFORMATION**Name of Operator: Richard IestName of Dairy Facility: Iest Family Farms

Facility Address:

14576 Avenue 14 Number and Street	Madera City	Madera County	93637 Zip Code
--------------------------------------	----------------	------------------	-------------------

Contact Person Name and Phone Number:	<u>Richard Iest</u> Name	(559) 647-9417 Phone Number
---------------------------------------	-----------------------------	--------------------------------

**MANURE HAULER INFORMATION**Name of Hauling Company/Person: Richie Iest Farms, Inc.

Address of Hauling Company/Person:

14676 Ave 14 Number and Street	Madera City	CA State	93637 Zip Code
-----------------------------------	----------------	-------------	-------------------

Contact Person:	<u>Richie Iest</u> Name	(559) 706-0749 Phone Number
-----------------	----------------------------	--------------------------------

**DESTINATION INFORMATION**Composting Facility / Broker / Farmer / Other (identify): Farmer

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

El Nido Ranch Name	(209) 675-8658 Phone Number
-----------------------	--------------------------------

7792 Nickle RD Address	Dos Palos City	CA State	93620 Zip Code
---------------------------	-------------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

7792 Nickle RD Address	Dos Palos City	93620 Zip Code
---------------------------	-------------------	-------------------

Street and nearest cross street (if no address)	Merced County
---	------------------

Assessor's Parcel Number                          Assessor's Parcel Number County                         Last date hauled: 12/27/2023

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

General Order No. R5-2007-0035, Attachment D

**MANURE AMOUNT HAULED**

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 3,774.00 tons

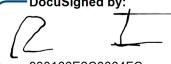
Manure Solids Content: 80.3 %

Method used to determine amount of manure:

Number of loads multiplied by load weight

**CERTIFICATION**

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

DocuSigned by:  
  
930166E2C8064FC...  
Operator Signature  
DocuSigned by:  
  
Kellie West  
4D9BFD60FFFF545A...  
Hauler Signature

6/13/2024

Date

6/18/2024

Date



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1479-01	IFF IW #1	Well Water	F & R Ag	Irrigation Wells	08/15/2023 10:52
23H1479-02	IFF IW #3	Well Water	F & R Ag	Irrigation Wells	08/15/2023 10:58
23H1479-03	IFF IW #5	Well Water	F & R Ag	Irrigation Wells	08/15/2023 11:03
23H1479-04	IFF IW #10	Well Water	F & R Ag	Irrigation Wells	08/15/2023 13:57
23H1479-05	IFF IW #13	Well Water	F & R Ag	Irrigation Wells	08/15/2023 14:28
23H1479-06	IFF IW #14	Well Water	F & R Ag	Irrigation Wells	08/15/2023 14:32
23H1479-07	IFF IW #17	Well Water	F & R Ag	Irrigation Wells	08/15/2023 9:44
23H1479-08	IFF IW #18	Well Water	F & R Ag	Irrigation Wells	08/15/2023 9:34
23H1479-09	IFF IW #19	Well Water	F & R Ag	Irrigation Wells	08/15/2023 9:54

Default Cooler      Temperature on Receipt °C: -0.8  
 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

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



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

## Sample Results

**Sample: IFF IW #1  
23H1479-01 (Water)**

Sampled: 8/15/2023 10:52  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>95.2</b>	mg/L	10.0	1		08/16/23 16:07	SM 2320 B		BEH0838
Calcium	<b>20.2</b>	mg/L	0.1	1		08/17/23 15:26	EPA 200.7		BEH0810
Chloride	<b>22.8</b>	mg/L	0.2	1	250	08/17/23 06:36	EPA 300.0		BEH0798
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/16/23 16:07	SM 2320 B		BEH0838
Electrical Conductivity	<b>0.26</b>	mmhos/cm	0.01	1		08/16/23 16:07	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>263</b>	umhos/cm	10.0	1		08/16/23 16:07	SM 2510 B		BEH0838
Bicarbonate as CaCO <sub>3</sub>	<b>95.2</b>	mg/L	5.00	1		08/16/23 16:07	SM 2320 B		BEH0838
Potassium	<b>2.43</b>	mg/L	0.500	1		08/17/23 15:26	EPA 200.7		BEH0810
Magnesium	<b>6.7</b>	mg/L	0.1	1		08/17/23 15:26	EPA 200.7		BEH0810
Sodium	<b>30</b>	mg/L	1	1		08/17/23 15:26	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 10:52	Field		BEH1008
Nitrate Nitrogen as NO <sub>3</sub> N	<b>0.2</b>	mg/L	0.1	1	10	08/17/23 06:36	EPA 300.0		BEH0798
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/16/23 16:07	SM 2320 B		BEH0838
pH	<b>7.5</b>	units	1.0	1		08/16/23 16:07	SM 4500-H+	H	BEH0838
Sulfate (SO <sub>4</sub> )	<b>6.4</b>	mg/L	0.5	1	250	08/17/23 06:36	EPA 300.0		BEH0798
Total Filterable Solids (TDS)	<b>205</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 13:59	SM 4500-NH <sub>3</sub> C		BEH0882
Total Nitrogen	ND	mg/L	1.00	1		08/18/23 13:59	SM 4500-NH <sub>3</sub> C		BEH0882

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



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #3  
23H1479-02 (Water)**

Sampled: 8/15/2023 10:58

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>350</b>	mg/L	10.0	1		08/16/23 16:11	SM 2320 B		BEH0838
Calcium	<b>100</b>	mg/L	0.1	1		08/17/23 15:27	EPA 200.7		BEH0810
Chloride	<b>83.5</b>	mg/L	0.2	1	250	08/17/23 06:56	EPA 300.0		BEH0798
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/16/23 16:11	SM 2320 B		BEH0838
Electrical Conductivity	<b>1.03</b>	mmhos/cm	0.01	1		08/16/23 16:11	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>1030</b>	umhos/cm	10.0	1		08/16/23 16:11	SM 2510 B		BEH0838
Bicarbonate as CaCO <sub>3</sub>	<b>350</b>	mg/L	5.00	1		08/16/23 16:11	SM 2320 B		BEH0838
Potassium	<b>6.16</b>	mg/L	0.500	1		08/17/23 15:27	EPA 200.7		BEH0810
Magnesium	<b>33.0</b>	mg/L	0.1	1		08/17/23 15:27	EPA 200.7		BEH0810
Sodium	<b>84</b>	mg/L	1	1		08/17/23 15:27	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 10:58	Field		BEH1008
Nitrate Nitrogen as NO <sub>3</sub> N	<b>15.9</b>	mg/L	0.1	1	10	08/17/23 06:56	EPA 300.0		BEH0798
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/16/23 16:11	SM 2320 B		BEH0838
pH	<b>7.4</b>	units	1.0	1		08/16/23 16:11	SM 4500-H+	H	BEH0838
Sulfate (SO <sub>4</sub> )	<b>46.3</b>	mg/L	0.5	1	250	08/17/23 06:56	EPA 300.0		BEH0798
Total Filterable Solids (TDS)	<b>783</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:00	SM 4500-NH <sub>3</sub> C		BEH0882
<b>Total Nitrogen</b>	<b>15.9</b>	mg/L	1.00	1		08/18/23 14:00	SM 4500-NH <sub>3</sub> C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #5  
23H1479-03 (Water)**

Sampled: 8/15/2023 11:03

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>139</b>	mg/L	10.0	1		08/16/23 16:19	SM 2320 B		BEH0838
Calcium	<b>34.7</b>	mg/L	0.1	1		08/17/23 15:28	EPA 200.7		BEH0810
Chloride	<b>23.3</b>	mg/L	0.2	1	250	08/17/23 07:16	EPA 300.0		BEH0798
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/16/23 16:19	SM 2320 B		BEH0838
Electrical Conductivity	<b>0.38</b>	mmhos/cm	0.01	1		08/16/23 16:19	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>378</b>	umhos/cm	10.0	1		08/16/23 16:19	SM 2510 B		BEH0838
Bicarbonate as CaCO <sub>3</sub>	<b>139</b>	mg/L	5.00	1		08/16/23 16:19	SM 2320 B		BEH0838
Potassium	<b>2.73</b>	mg/L	0.500	1		08/17/23 15:28	EPA 200.7		BEH0810
Magnesium	<b>10.8</b>	mg/L	0.1	1		08/17/23 15:28	EPA 200.7		BEH0810
Sodium	<b>33</b>	mg/L	1	1		08/17/23 15:28	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 11:03	Field		BEH1008
Nitrate Nitrogen as NO <sub>3</sub> N	<b>4.9</b>	mg/L	0.1	1	10	08/17/23 07:16	EPA 300.0		BEH0798
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/16/23 16:19	SM 2320 B		BEH0838
pH	<b>7.7</b>	units	1.0	1		08/16/23 16:19	SM 4500-H+	H	BEH0838
Sulfate (SO <sub>4</sub> )	<b>8.1</b>	mg/L	0.5	1	250	08/17/23 07:16	EPA 300.0		BEH0798
Total Filterable Solids (TDS)	<b>285</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:02	SM 4500-NH <sub>3</sub> C		BEH0882
<b>Total Nitrogen</b>	<b>4.91</b>	mg/L	1.00	1		08/18/23 14:02	SM 4500-NH <sub>3</sub> C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #10  
23H1479-04 (Water)**

Sampled: 8/15/2023 13:57

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>156</b>	mg/L	10.0	1		08/16/23 16:24	SM 2320 B		BEH0838
<b>Calcium</b>	<b>50.1</b>	mg/L	0.1	1		08/17/23 15:29	EPA 200.7		BEH0810
<b>Chloride</b>	<b>67.0</b>	mg/L	0.2	1	250	08/17/23 07:36	EPA 300.0		BEH0798
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 16:24	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>0.53</b>	mmhos/cm	0.01	1		08/16/23 16:24	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>527</b>	umhos/cm	10.0	1		08/16/23 16:24	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>156</b>	mg/L	5.00	1		08/16/23 16:24	SM 2320 B		BEH0838
<b>Potassium</b>	<b>3.03</b>	mg/L	0.500	1		08/17/23 15:29	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>15.4</b>	mg/L	0.1	1		08/17/23 15:29	EPA 200.7		BEH0810
<b>Sodium</b>	<b>41</b>	mg/L	1	1		08/17/23 15:29	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 13:57	Field		BEH1008
<b>Nitrate Nitrogen as NO3N</b>	<b>3.8</b>	mg/L	0.1	1	10	08/17/23 07:36	EPA 300.0		BEH0798
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 16:24	SM 2320 B		BEH0838
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/16/23 16:24	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>9.5</b>	mg/L	0.5	1	250	08/17/23 07:36	EPA 300.0		BEH0798
<b>Total Filterable Solids (TDS)</b>	<b>357</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:03	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>3.76</b>	mg/L	1.00	1		08/18/23 14:03	SM 4500-NH3 C		BEH0882

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #13  
23H1479-05 (Water)**

Sampled: 8/15/2023 14:28

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>418</b>	mg/L	10.0	1		08/16/23 16:29	SM 2320 B		BEH0838
<b>Calcium</b>	<b>140</b>	mg/L	0.1	1		08/17/23 15:31	EPA 200.7		BEH0810
<b>Chloride</b>	<b>100</b>	mg/L	0.2	1	250	08/17/23 07:55	EPA 300.0		BEH0798
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 16:29	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>1.21</b>	mmhos/cm	0.01	1		08/16/23 16:29	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>1210</b>	umhos/cm	10.0	1		08/16/23 16:29	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>418</b>	mg/L	5.00	1		08/16/23 16:29	SM 2320 B		BEH0838
<b>Potassium</b>	<b>7.06</b>	mg/L	0.500	1		08/17/23 15:31	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>43.1</b>	mg/L	0.1	1		08/17/23 15:31	EPA 200.7		BEH0810
<b>Sodium</b>	<b>76</b>	mg/L	1	1		08/17/23 15:31	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:28	Field		BEH1008
<b>Nitrate Nitrogen as NO3N</b>	<b>19.9</b>	mg/L	0.1	1	10	08/17/23 07:55	EPA 300.0		BEH0798
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 16:29	SM 2320 B		BEH0838
<b>pH</b>	<b>7.4</b>	units	1.0	1		08/16/23 16:29	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>52.9</b>	mg/L	0.5	1	250	08/17/23 07:55	EPA 300.0		BEH0798
<b>Total Filterable Solids (TDS)</b>	<b>880</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:04	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>19.9</b>	mg/L	1.00	1		08/18/23 14:04	SM 4500-NH3 C		BEH0882

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #14  
23H1479-06 (Water)**

Sampled: 8/15/2023 14:32

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>517</b>	mg/L	10.0	1		08/16/23 16:38	SM 2320 B		BEH0838
<b>Calcium</b>	<b>217</b>	mg/L	0.1	1		08/17/23 15:32	EPA 200.7		BEH0810
<b>Chloride</b>	<b>182</b>	mg/L	0.2	1	250	08/17/23 08:15	EPA 300.0		BEH0798
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 16:38	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>1.84</b>	mmhos/cm	0.01	1		08/16/23 16:38	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>1840</b>	umhos/cm	10.0	1		08/16/23 16:38	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>517</b>	mg/L	5.00	1		08/16/23 16:38	SM 2320 B		BEH0838
<b>Potassium</b>	<b>7.63</b>	mg/L	0.500	1		08/17/23 15:32	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>65.7</b>	mg/L	0.1	1		08/17/23 15:32	EPA 200.7		BEH0810
<b>Sodium</b>	<b>107</b>	mg/L	1	1		08/17/23 15:32	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:32	Field		BEH1008
<b>Nitrate Nitrogen as NO3N</b>	<b>49.4</b>	mg/L	0.1	1	10	08/17/23 08:15	EPA 300.0		BEH0798
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 16:38	SM 2320 B		BEH0838
<b>pH</b>	<b>7.2</b>	units	1.0	1		08/16/23 16:38	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>71.6</b>	mg/L	0.5	1	250	08/17/23 08:15	EPA 300.0		BEH0798
<b>Total Filterable Solids (TDS)</b>	<b>1260</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:06	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>49.4</b>	mg/L	1.00	1		08/18/23 14:06	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #17  
23H1479-07 (Water)**

Sampled: 8/15/2023 9:44

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>367</b>	mg/L	10.0	1		08/16/23 16:48	SM 2320 B		BEH0838
<b>Calcium</b>	<b>127</b>	mg/L	0.1	1		08/17/23 15:33	EPA 200.7		BEH0810
<b>Chloride</b>	<b>139</b>	mg/L	0.2	1	250	08/17/23 08:35	EPA 300.0		BEH0798
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 16:48	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>1.12</b>	mmhos/cm	0.01	1		08/16/23 16:48	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>1120</b>	umhos/cm	10.0	1		08/16/23 16:48	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>367</b>	mg/L	5.00	1		08/16/23 16:48	SM 2320 B		BEH0838
<b>Potassium</b>	<b>6.52</b>	mg/L	0.500	1		08/17/23 15:33	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>37.5</b>	mg/L	0.1	1		08/17/23 15:33	EPA 200.7		BEH0810
<b>Sodium</b>	<b>63</b>	mg/L	1	1		08/17/23 15:33	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 09:44	Field		BEH1008
<b>Nitrate Nitrogen as NO3N</b>	<b>7.6</b>	mg/L	0.1	1	10	08/17/23 08:35	EPA 300.0		BEH0798
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 16:48	SM 2320 B		BEH0838
<b>pH</b>	<b>7.5</b>	units	1.0	1		08/16/23 16:48	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>29.2</b>	mg/L	0.5	1	250	08/17/23 08:35	EPA 300.0		BEH0798
<b>Total Filterable Solids (TDS)</b>	<b>750</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:07	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>7.57</b>	mg/L	1.00	1		08/18/23 14:07	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
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Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #18  
23H1479-08 (Water)**

Sampled: 8/15/2023 9:34

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>400</b>	mg/L	10.0	1		08/16/23 16:56	SM 2320 B		BEH0838
<b>Calcium</b>	<b>134</b>	mg/L	0.1	1		08/17/23 15:34	EPA 200.7		BEH0810
<b>Chloride</b>	<b>82.9</b>	mg/L	0.2	1	250	08/17/23 08:55	EPA 300.0		BEH0798
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 16:56	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>1.12</b>	mmhos/cm	0.01	1		08/16/23 16:56	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>1120</b>	umhos/cm	10.0	1		08/16/23 16:56	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>400</b>	mg/L	5.00	1		08/16/23 16:56	SM 2320 B		BEH0838
<b>Potassium</b>	<b>6.01</b>	mg/L	0.500	1		08/17/23 15:34	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>39.4</b>	mg/L	0.1	1		08/17/23 15:34	EPA 200.7		BEH0810
<b>Sodium</b>	<b>82</b>	mg/L	1	1		08/17/23 15:34	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 09:34	Field		BEH1008
<b>Nitrate Nitrogen as NO3N</b>	<b>13.1</b>	mg/L	0.1	1	10	08/17/23 08:55	EPA 300.0		BEH0798
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 16:56	SM 2320 B		BEH0838
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/16/23 16:56	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>77.4</b>	mg/L	0.5	1	250	08/17/23 08:55	EPA 300.0		BEH0798
<b>Total Filterable Solids (TDS)</b>	<b>840</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:08	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>13.1</b>	mg/L	1.00	1		08/18/23 14:08	SM 4500-NH3 C		BEH0882

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

**Sample: IFF IW #19  
23H1479-09 (Water)**

Sampled: 8/15/2023 9:54

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>384</b>	mg/L	10.0	1		08/16/23 17:05	SM 2320 B		BEH0838
<b>Calcium</b>	<b>132</b>	mg/L	0.1	1		08/17/23 15:35	EPA 200.7		BEH0810
<b>Chloride</b>	<b>114</b>	mg/L	0.2	1	250	08/17/23 09:14	EPA 300.0		BEH0798
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:05	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>1.17</b>	mmhos/cm	0.01	1		08/16/23 17:05	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>1170</b>	umhos/cm	10.0	1		08/16/23 17:05	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>384</b>	mg/L	5.00	1		08/16/23 17:05	SM 2320 B		BEH0838
<b>Potassium</b>	<b>7.25</b>	mg/L	0.500	1		08/17/23 15:35	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>39.1</b>	mg/L	0.1	1		08/17/23 15:35	EPA 200.7		BEH0810
<b>Sodium</b>	<b>90</b>	mg/L	1	1		08/17/23 15:35	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 09:54	Field		BEH1008
<b>Nitrate Nitrogen as NO3N</b>	<b>10.1</b>	mg/L	0.1	1	10	08/17/23 09:14	EPA 300.0		BEH0798
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:05	SM 2320 B		BEH0838
<b>pH</b>	<b>7.6</b>	units	1.0	1		08/16/23 17:05	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>91.3</b>	mg/L	0.5	1	250	08/17/23 09:14	EPA 300.0		BEH0798
<b>Total Filterable Solids (TDS)</b>	<b>860</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:10	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>10.3</b>	mg/L	1.00	1		08/18/23 14:10	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0798</b>									
<b>Blank (BEH0798-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEH0798-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEH0798-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEH0798-BLK4)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>LCS (BEH0798-BS1)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N 5.1 0.1 mg/L									
Sulfate (SO4) 4.7 0.5 mg/L									
<b>LCS (BEH0798-BS2)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO3N 5.1 0.1 mg/L									
Sulfate (SO4) 4.8 0.5 mg/L									
<b>LCS (BEH0798-BS3)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO3N 5.1 0.1 mg/L									
Sulfate (SO4) 4.8 0.5 mg/L									
<b>Duplicate (BEH0798-DUP1)</b>									
<b>Source: 23H1451-01</b>									
Chloride 11.3 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N 1.1 0.1 mg/L									
Sulfate (SO4) 8.4 0.5 mg/L									
<b>Duplicate (BEH0798-DUP2)</b>									
<b>Source: 23H1466-03</b>									
Chloride 7.1 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO3N 7.3 0.1 mg/L									
Sulfate (SO4) 24.0 0.5 mg/L									

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Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0798 (Continued)</b>									
<b>Duplicate (BEH0798-DUP3)</b>									
<b>Source: 23H1479-01</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	23.0	0.2	mg/L		22.8			0.790	10
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			0.813	10
Sulfate (SO4)	6.5	0.5	mg/L		6.4			0.744	10
<b>Matrix Spike (BEH0798-MS1)</b>									
<b>Source: 23H1451-01</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	16.2	0.2	mg/L	5.000	11.3	97.4	90-110		
Nitrate Nitrogen as NO3N	6.2	0.1	mg/L	5.000	1.1	101	90-110		
Sulfate (SO4)	13.4	0.5	mg/L	5.000	8.5	99.4	90-110		
<b>Matrix Spike (BEH0798-MS2)</b>									
<b>Source: 23H1466-03</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.0	0.2	mg/L	5.000	7.1	98.4	90-110		
Nitrate Nitrogen as NO3N	12.3	0.1	mg/L	5.000	7.3	99.6	90-110		
Sulfate (SO4)	28.8	0.5	mg/L	5.000	24.2	91.7	90-110		
<b>Matrix Spike (BEH0798-MS3)</b>									
<b>Source: 23H1479-01</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	27.5	0.2	mg/L	5.000	22.8	94.0	90-110		
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.2	98.7	90-110		
Sulfate (SO4)	11.4	0.5	mg/L	5.000	6.4	99.5	90-110		
<b>Reference (BEH0798-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.7		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	9.8		mg/L	10.00		97.7	90-110		
<b>Reference (BEH0798-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.6		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Sulfate (SO4)	9.7		mg/L	10.00		96.8	90-110		
<b>Reference (BEH0798-SRM3)</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.7		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	9.7		mg/L	10.00		97.5	90-110		
<b>Reference (BEH0798-SRM4)</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.6		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	9.7		mg/L	10.00		96.9	90-110		

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0810</b>									
<b>Blank (BEH0810-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEH0810-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEH0810-BS1)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Calcium	39.0	0.1	mg/L	35.71		109	90-110		
Potassium	36.3	0.500	mg/L	35.71		102	90-110		
Sodium	36	1	mg/L	35.71		102	90-110		
Magnesium	39.1	0.1	mg/L	35.71		110	90-110		
<b>LCS (BEH0810-BS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Potassium	38.8	0.500	mg/L	35.71		109	90-110		
Sodium	40	1	mg/L	35.71		111	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 (BEH0810-DUP1)</b>									
<b>Source: 23H1479-05</b> Prepared: 8/16/2023 Analyzed: 8/17/2023									
Potassium	6.86	0.500	mg/L		7.06			2.88	15
Sodium	76	1	mg/L		76			0.710	15
Calcium	136	0.1	mg/L		140			2.46	15
Magnesium	42.7	0.1	mg/L		43.1			1.10	15
<b>Matrix Spike (BEH0810-MS1)</b>									
<b>Source: 23H1479-05</b> Prepared: 8/16/2023 Analyzed: 8/17/2023									
Sodium	115	1	mg/L	35.71	76	107	90-110		
Potassium	46.5	0.500	mg/L	35.71	7.06	110	90-110		
Calcium	178	0.1	mg/L	35.71	140	106	90-110		
Magnesium	81.8	0.1	mg/L	35.71	43.1	108	90-110		
<b>Matrix Spike (BEH0810-MS2)</b>									
<b>Source: 23H1480-03</b> Prepared: 8/16/2023 Analyzed: 8/17/2023									
Calcium	116	0.1	mg/L	35.71	79.8	99.9	90-110		
Sodium	89	1	mg/L	35.71	51	106	90-110		
Potassium	43.7	0.500	mg/L	35.71	4.43	110	90-110		
Magnesium	60.6	0.1	mg/L	35.71	22.4	107	90-110		
<b>Reference (BEH0810-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Sodium	96		mg/L	91.50		105	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: BEH0810 (Continued)</b>									
<b>Reference (BEH0810-SRM2)</b>									
Potassium	23.0		mg/L	21.90		105	90-110		
<b>Reference (BEH0810-SRM3)</b>									
Calcium	49.3		mg/L	45.90		107	90-110		
Magnesium	38.6		mg/L	35.60		108	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: BEH0826</b>									
<b>Blank (BEH0826-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L						
Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>LCS (BEH0826-BS1)</b>									
Total Filterable Solids (TDS)	38.8	10.0	mg/L	2000	1.94	0-200			
Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Duplicate (BEH0826-DUP1)</b>									
Total Filterable Solids (TDS)	783	10.0	mg/L		783			0.00	10
Source: 23H1479-02 Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Duplicate (BEH0826-DUP2)</b>									
Total Filterable Solids (TDS)	940	10.0	mg/L		950			1.06	10
Source: 23H1480-07 Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Reference (BEH0826-SRM1)</b>									
Total Filterable Solids (TDS)	343		mg/L	325.0	106	90-110			
Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Reference (BEH0826-SRM2)</b>									
Total Filterable Solids (TDS)	500		mg/L	495.0	101	90-110			
Prepared: 8/16/2023 Analyzed: 8/18/2023									

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0838</b>									
<b>Blank (BEH0838-BLK1)</b>									
Alkalinity as CaCO3	ND	10.0	mg/L						
pH	4.9	1.0	units						
Carbonate as CaCO3	ND	1	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Blank (BEH0838-BLK2)</b>									
pH	5.3	1.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0838-BLK3)</b>									
Alkalinity as CaCO3	ND	10.0	mg/L						
pH	5.4	1.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0838-DUP1)</b>									
	<b>Source: 23H1479-04</b>			Prepared & Analyzed: 8/16/2023					
Alkalinity as CaCO3	157	10.0	mg/L		156			1.04	10
Carbonate as CaCO3	ND	1	mg/L		ND				
Electrical Conductivity	0.52	0.01	mmhos/cm		0.53			1.90	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				
pH	7.9	1.0	units		7.8			1.15	10
Electrical Conductivity umhos	517	10.0	umhos/cm		527			1.90	10
<b>Duplicate (BEH0838-DUP2)</b>									
	<b>Source: 23H1480-06</b>			Prepared & Analyzed: 8/16/2023					
Carbonate as CaCO3	ND	1	mg/L		ND				10
Alkalinity as CaCO3	139	10.0	mg/L		136			2.36	10
pH	8.0	1.0	units		7.9			0.377	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				
Electrical Conductivity	0.75	0.01	mmhos/cm		0.75			0.521	10
Electrical Conductivity umhos	750	10.0	umhos/cm		746			0.521	10
<b>Reference (BEH0838-SRM1)</b>									
	Prepared & Analyzed: 8/16/2023								

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0838 (Continued)</b>									
<b>Reference (BEH0838-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	503		umhos/cm		538.0		93.5	90-110	
Alkalinity as CaCO <sub>3</sub>	40.1		mg/L		40.60		98.7	90-110	
<b>Reference (BEH0838-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
Alkalinity as CaCO <sub>3</sub>	39.5		mg/L		40.60		97.2	90-110	
Electrical Conductivity	518		umhos/cm		538.0		96.2	90-110	
<b>Reference (BEH0838-SRM3)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	524		umhos/cm		538.0		97.5	90-110	
Alkalinity as CaCO <sub>3</sub>	41.0		mg/L		40.60		101	90-110	
<b>Reference (BEH0838-SRM4)</b>									
Prepared & Analyzed: 8/16/2023									
pH	4.0		units		4.000		101	97.5-102.5	
<b>Reference (BEH0838-SRM5)</b>									
Prepared & Analyzed: 8/16/2023									
pH	4.0		units		4.000		101	97.5-102.5	
<b>Reference (BEH0838-SRM6)</b>									
Prepared & Analyzed: 8/16/2023									
pH	4.0		units		4.000		101	97.5-102.5	
<b>Reference (BEH0838-SRM7)</b>									
Prepared & Analyzed: 8/16/2023									
pH	5.9		units		5.820		101	28178-101.7:	

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Test Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/21/2023 14:36

## **Quality Control (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0882</b>									
<b>Blank (BEH0882-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>Blank (BEH0882-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>LCS (BEH0882-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total	5.91	1.00	mg/L	5.709		104	90-110		
<b>LCS (BEH0882-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total	5.77	1.00	mg/L	5.709		101	90-110		
<b>Duplicate (BEH0882-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	3.50	mg/L		ND				10
<b>Duplicate (BEH0882-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
<b>Matrix Spike (BEH0882-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total	11.1	3.50	mg/L	9.990	ND	111	90-110		
<b>Matrix Spike (BEH0882-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total	8.20	1.40	mg/L	7.992	ND	103	90-110		
<b>Reference (BEH0882-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total	25.3		mg/L	23.80		107	90-110		

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08/16/23 09:52

23H1479

Purchase Order No

Bill To: 15874 | 08

JG

Acct # Cons #

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: IRRIGATION WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

F&amp;R AG

## 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. Samples: 9 No of Bottles:

**Water Type:**  Drinking Water  Wastewater  
 Water  Groundwater  Monitoring Well

Other:

**Analysis and Bottles Required: (Please indicate Analysis)**( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other + TN

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N PURGE
1	IFF IW #1	8/15/23	1052	-0.8	245 MIN
2	IFF IW #3		1058	-0.9	
3	IFF IW #5		1103	-0.8	
4	IFF IW #10		1357	-4.3	
5	IFF IW #13		1428	-1.9	
6	IFF IW #14		1432	-1.2	
7	IFF IW #15				
8	IFF IW #17		0944	-3.1	
9	IFF IW #18		0934	-1.8	
10	IFF IW #19		0954	0.4	

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1432	8/16/23
Second				
Third				
Fourth	SD	DLS	8/16/23 9:52	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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

## Invoicing Information:

## Shipping

Sampling hrs \_\_\_\_\_

Miles \_\_\_\_\_

Consulting \_\_\_\_\_

Amt Paid \_\_\_\_\_

Rec By \_\_\_\_\_

Check # \_\_\_\_\_

Date \_\_\_\_\_

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

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



08/16/23 09:52

23H1479

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

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

**Container:** Ice Chest  Box  None

**Refrigerant:** Wet Ice  Blue Ice  None

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

**Type of Container(s) Received**

**Sample Number**

1 2 3 4 5 6 7 8 9 10

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

(Containers that go into the Lab)

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	* pH Value										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	* pH Value	C2									
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
pH Strips											
Lot: 10BDH4501 Exp: Jan 2025											

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

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

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



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1480-01	IFF IW #20	Well Water	F & R Ag	Irrigation Wells	08/15/2023 8:48
23H1480-02	IFF IW #21	Well Water	F & R Ag	Irrigation Wells	08/15/2023 8:51
23H1480-03	IFF IW #23	Well Water	F & R Ag	Irrigation Wells	08/15/2023 9:09
23H1480-04	IFF IW #24	Well Water	F & R Ag	Irrigation Wells	08/15/2023 15:00
23H1480-05	IFF IW #25	Well Water	F & R Ag	Irrigation Wells	08/15/2023 15:04
23H1480-06	IFF IW #28	Well Water	F & R Ag	Irrigation Wells	08/15/2023 14:10
23H1480-07	IFF IW #38	Well Water	F & R Ag	Irrigation Wells	08/15/2023 11:08
23H1480-08	IFF IW #44	Well Water	F & R Ag	Irrigation Wells	08/15/2023 11:34
23H1480-09	IFF IW #47	Well Water	F & R Ag	Irrigation Wells	08/15/2023 10:47
23H1480-10	IFF IW #48	Well Water	F & R Ag	Irrigation Wells	08/15/2023 8:59

Default Cooler      Temperature on Receipt °C: -0.3  
 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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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

## Sample Results

**Sample: IFF IW #20  
23H1480-01 (Water)**

Sampled: 8/15/2023 8:48  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	<b>359</b>	mg/L	10.0	1		08/16/23 17:24	SM 2320 B		BEH0838
Calcium	<b>94.4</b>	mg/L	0.1	1		08/17/23 15:36	EPA 200.7		BEH0810
Chloride	<b>34.9</b>	mg/L	0.2	1	250	08/16/23 18:22	EPA 300.0		BEH0804
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:24	SM 2320 B		BEH0838
Electrical Conductivity	<b>0.83</b>	mmhos/cm	0.01	1		08/16/23 17:24	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>834</b>	umhos/cm	10.0	1		08/16/23 17:24	SM 2510 B		BEH0838
Bicarbonate as CaCO3	<b>359</b>	mg/L	5.00	1		08/16/23 17:24	SM 2320 B		BEH0838
Potassium	<b>4.62</b>	mg/L	0.500	1		08/17/23 15:36	EPA 200.7		BEH0810
Magnesium	<b>27.3</b>	mg/L	0.1	1		08/17/23 15:36	EPA 200.7		BEH0810
Sodium	<b>63</b>	mg/L	1	1		08/17/23 15:36	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 08:48	Field		BEH1009
Nitrate Nitrogen as NO3N	<b>8.5</b>	mg/L	0.1	1	10	08/16/23 18:22	EPA 300.0		BEH0804
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:24	SM 2320 B		BEH0838
pH	<b>7.7</b>	units	1.0	1		08/16/23 17:24	SM 4500-H+	H	BEH0838
Sulfate (SO4)	<b>31.0</b>	mg/L	0.5	1	250	08/16/23 18:22	EPA 300.0		BEH0804
Total Filterable Solids (TDS)	<b>600</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:20	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>8.63</b>	mg/L	1.00	1		08/18/23 14:20	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #21  
23H1480-02 (Water)**

Sampled: 8/15/2023 8:51

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>203</b>	mg/L	10.0	1		08/16/23 17:32	SM 2320 B		BEH0838
<b>Calcium</b>	<b>60.4</b>	mg/L	0.1	1		08/17/23 15:44	EPA 200.7		BEH0810
<b>Chloride</b>	<b>17.8</b>	mg/L	0.2	1	250	08/16/23 18:43	EPA 300.0		BEH0804
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:32	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>0.47</b>	mmhos/cm	0.01	1		08/16/23 17:32	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>470</b>	umhos/cm	10.0	1		08/16/23 17:32	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>203</b>	mg/L	5.00	1		08/16/23 17:32	SM 2320 B		BEH0838
<b>Potassium</b>	<b>5.73</b>	mg/L	0.500	1		08/17/23 15:44	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>18.7</b>	mg/L	0.1	1		08/17/23 15:44	EPA 200.7		BEH0810
<b>Sodium</b>	<b>50</b>	mg/L	1	1		08/17/23 15:44	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 08:51	Field		BEH1009
<b>Nitrate Nitrogen as NO3N</b>	<b>3.9</b>	mg/L	0.1	1	10	08/16/23 18:43	EPA 300.0		BEH0804
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:32	SM 2320 B		BEH0838
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/16/23 17:32	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>15.2</b>	mg/L	0.5	1	250	08/16/23 18:43	EPA 300.0		BEH0804
<b>Total Filterable Solids (TDS)</b>	<b>367</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:21	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>3.92</b>	mg/L	1.00	1		08/18/23 14:21	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #23  
23H1480-03 (Water)**

Sampled: 8/15/2023 9:09

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>259</b>	mg/L	10.0	1		08/16/23 17:37	SM 2320 B		BEH0838
<b>Calcium</b>	<b>79.8</b>	mg/L	0.1	1		08/17/23 15:45	EPA 200.7		BEH0810
<b>Chloride</b>	<b>31.1</b>	mg/L	0.2	1	250	08/16/23 19:04	EPA 300.0		BEH0804
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:37	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>0.68</b>	mmhos/cm	0.01	1		08/16/23 17:37	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>679</b>	umhos/cm	10.0	1		08/16/23 17:37	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>259</b>	mg/L	5.00	1		08/16/23 17:37	SM 2320 B		BEH0838
<b>Potassium</b>	<b>4.43</b>	mg/L	0.500	1		08/17/23 15:45	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>22.4</b>	mg/L	0.1	1		08/17/23 15:45	EPA 200.7		BEH0810
<b>Sodium</b>	<b>51</b>	mg/L	1	1		08/17/23 15:45	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 09:09	Field		BEH1009
<b>Nitrate Nitrogen as NO3N</b>	<b>7.6</b>	mg/L	0.1	1	10	08/16/23 19:04	EPA 300.0		BEH0804
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:37	SM 2320 B		BEH0838
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/16/23 17:37	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>40.3</b>	mg/L	0.5	1	250	08/16/23 19:04	EPA 300.0		BEH0804
<b>Total Filterable Solids (TDS)</b>	<b>480</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:22	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>7.59</b>	mg/L	1.00	1		08/18/23 14:22	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #24  
23H1480-04 (Water)**

Sampled: 8/15/2023 15:00

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>218</b>	mg/L	10.0	1		08/16/23 17:44	SM 2320 B		BEH0838
<b>Calcium</b>	<b>62.6</b>	mg/L	0.1	1		08/17/23 15:47	EPA 200.7		BEH0810
<b>Chloride</b>	<b>26.5</b>	mg/L	0.2	1	250	08/16/23 19:25	EPA 300.0		BEH0804
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:44	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>0.57</b>	mmhos/cm	0.01	1		08/16/23 17:44	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>572</b>	umhos/cm	10.0	1		08/16/23 17:44	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>218</b>	mg/L	5.00	1		08/16/23 17:44	SM 2320 B		BEH0838
<b>Potassium</b>	<b>3.80</b>	mg/L	0.500	1		08/17/23 15:47	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>17.5</b>	mg/L	0.1	1		08/17/23 15:47	EPA 200.7		BEH0810
<b>Sodium</b>	<b>42</b>	mg/L	1	1		08/17/23 15:47	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:00	Field		BEH1009
<b>Nitrate Nitrogen as NO3N</b>	<b>6.7</b>	mg/L	0.1	1	10	08/16/23 19:25	EPA 300.0		BEH0804
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:44	SM 2320 B		BEH0838
<b>pH</b>	<b>7.9</b>	units	1.0	1		08/16/23 17:44	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>32.5</b>	mg/L	0.5	1	250	08/16/23 19:25	EPA 300.0		BEH0804
<b>Total Filterable Solids (TDS)</b>	<b>450</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:24	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>6.70</b>	mg/L	1.00	1		08/18/23 14:24	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #25  
23H1480-05 (Water)**

Sampled: 8/15/2023 15:04

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>187</b>	mg/L	10.0	1		08/16/23 17:49	SM 2320 B		BEH0838
<b>Calcium</b>	<b>38.5</b>	mg/L	0.1	1		08/17/23 15:48	EPA 200.7		BEH0810
<b>Chloride</b>	<b>13.1</b>	mg/L	0.2	1	250	08/16/23 19:45	EPA 300.0		BEH0804
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:49	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>0.41</b>	mmhos/cm	0.01	1		08/16/23 17:49	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>406</b>	umhos/cm	10.0	1		08/16/23 17:49	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>187</b>	mg/L	5.00	1		08/16/23 17:49	SM 2320 B		BEH0838
<b>Potassium</b>	<b>2.73</b>	mg/L	0.500	1		08/17/23 15:48	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>11.3</b>	mg/L	0.1	1		08/17/23 15:48	EPA 200.7		BEH0810
<b>Sodium</b>	<b>42</b>	mg/L	1	1		08/17/23 15:48	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:04	Field		BEH1009
<b>Nitrate Nitrogen as NO3N</b>	<b>0.1</b>	mg/L	0.1	1	10	08/16/23 19:45	EPA 300.0		BEH0804
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:49	SM 2320 B		BEH0838
<b>pH</b>	<b>8.0</b>	units	1.0	1		08/16/23 17:49	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>22.7</b>	mg/L	0.5	1	250	08/16/23 19:45	EPA 300.0		BEH0804
<b>Total Filterable Solids (TDS)</b>	<b>320</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:25	SM 4500-NH3 C		BEH0882
Total Nitrogen	ND	mg/L	1.00	1		08/18/23 14:25	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #28  
23H1480-06 (Water)**

Sampled: 8/15/2023 14:10

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>136</b>	mg/L	10.0	1		08/16/23 17:54	SM 2320 B		BEH0838
<b>Calcium</b>	<b>63.0</b>	mg/L	0.1	1		08/17/23 15:49	EPA 200.7		BEH0810
<b>Chloride</b>	<b>152</b>	mg/L	0.2	1	250	08/17/23 18:25	EPA 300.0		BEH0885
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:54	SM 2320 B		BEH0838
<b>Electrical Conductivity</b>	<b>0.75</b>	mmhos/cm	0.01	1		08/16/23 17:54	SM 2510 B		BEH0838
<b>Electrical Conductivity umhos</b>	<b>746</b>	umhos/cm	10.0	1		08/16/23 17:54	SM 2510 B		BEH0838
<b>Bicarbonate as CaCO3</b>	<b>136</b>	mg/L	5.00	1		08/16/23 17:54	SM 2320 B		BEH0838
<b>Potassium</b>	<b>3.19</b>	mg/L	0.500	1		08/17/23 15:49	EPA 200.7		BEH0810
<b>Magnesium</b>	<b>19.5</b>	mg/L	0.1	1		08/17/23 15:49	EPA 200.7		BEH0810
<b>Sodium</b>	<b>57</b>	mg/L	1	1		08/17/23 15:49	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:10	Field		BEH1009
<b>Nitrate Nitrogen as NO3N</b>	<b>1.6</b>	mg/L	0.1	1	10	08/16/23 20:06	EPA 300.0		BEH0804
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:54	SM 2320 B		BEH0838
<b>pH</b>	<b>7.9</b>	units	1.0	1		08/16/23 17:54	SM 4500-H+	H	BEH0838
<b>Sulfate (SO4)</b>	<b>4.9</b>	mg/L	0.5	1	250	08/16/23 20:06	EPA 300.0		BEH0804
<b>Total Filterable Solids (TDS)</b>	<b>610</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:26	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>1.56</b>	mg/L	1.00	1		08/18/23 14:26	SM 4500-NH3 C		BEH0882

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #38  
23H1480-07 (Water)**

Sampled: 8/15/2023 11:08

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	<b>360</b>	mg/L	10.0	1		08/16/23 17:59	SM 2320 B		BEH0838
Calcium	<b>141</b>	mg/L	0.1	1		08/17/23 15:50	EPA 200.7		BEH0810
Chloride	<b>163</b>	mg/L	0.2	1	250	08/16/23 20:27	EPA 300.0		BEH0804
Carbonate as CaCO3	ND	mg/L	1	1		08/16/23 17:59	SM 2320 B		BEH0838
Electrical Conductivity	<b>1.34</b>	mmhos/cm	0.01	1		08/16/23 17:59	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>1340</b>	umhos/cm	10.0	1		08/16/23 17:59	SM 2510 B		BEH0838
Bicarbonate as CaCO3	<b>360</b>	mg/L	5.00	1		08/16/23 17:59	SM 2320 B		BEH0838
Potassium	<b>7.80</b>	mg/L	0.500	1		08/17/23 15:50	EPA 200.7		BEH0810
Magnesium	<b>46.8</b>	mg/L	0.1	1		08/17/23 15:50	EPA 200.7		BEH0810
Sodium	<b>76</b>	mg/L	1	1		08/17/23 15:50	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 11:08	Field		BEH1009
Nitrate Nitrogen as NO3N	<b>17.4</b>	mg/L	0.1	1	10	08/16/23 20:27	EPA 300.0		BEH0804
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/16/23 17:59	SM 2320 B		BEH0838
pH	<b>7.7</b>	units	1.0	1		08/16/23 17:59	SM 4500-H+	H	BEH0838
Sulfate (SO4)	<b>68.6</b>	mg/L	0.5	1	250	08/16/23 20:27	EPA 300.0		BEH0804
Total Filterable Solids (TDS)	<b>950</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/18/23 14:28	SM 4500-NH3 C		BEH0882
<b>Total Nitrogen</b>	<b>17.4</b>	mg/L	1.00	1		08/18/23 14:28	SM 4500-NH3 C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #44  
23H1480-08 (Water)**

Sampled: 8/15/2023 11:34

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>135</b>	mg/L	10.0	1		08/16/23 18:07	SM 2320 B		BEH0838
Calcium	<b>29.0</b>	mg/L	0.1	1		08/17/23 15:51	EPA 200.7		BEH0810
Chloride	<b>24.9</b>	mg/L	0.2	1	250	08/16/23 20:48	EPA 300.0		BEH0804
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/16/23 18:07	SM 2320 B		BEH0838
Electrical Conductivity	<b>0.34</b>	mmhos/cm	0.01	1		08/16/23 18:07	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>344</b>	umhos/cm	10.0	1		08/16/23 18:07	SM 2510 B		BEH0838
Bicarbonate as CaCO <sub>3</sub>	<b>135</b>	mg/L	5.00	1		08/16/23 18:07	SM 2320 B		BEH0838
Potassium	<b>2.88</b>	mg/L	0.500	1		08/17/23 15:51	EPA 200.7		BEH0810
Magnesium	<b>8.9</b>	mg/L	0.1	1		08/17/23 15:51	EPA 200.7		BEH0810
Sodium	<b>35</b>	mg/L	1	1		08/17/23 15:51	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 11:34	Field		BEH1009
Nitrate Nitrogen as NO <sub>3</sub> N	<b>0.4</b>	mg/L	0.1	1	10	08/16/23 20:48	EPA 300.0		BEH0804
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/16/23 18:07	SM 2320 B		BEH0838
pH	<b>7.9</b>	units	1.0	1		08/16/23 18:07	SM 4500-H+	H	BEH0838
Sulfate (SO <sub>4</sub> )	<b>8.4</b>	mg/L	0.5	1	250	08/16/23 20:48	EPA 300.0		BEH0804
Total Filterable Solids (TDS)	<b>210</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	<b>1.14</b>	mg/L	1.00	1		08/18/23 14:29	SM 4500-NH <sub>3</sub> C		BEH0882
Total Nitrogen	<b>1.50</b>	mg/L	1.00	1		08/18/23 14:29	SM 4500-NH <sub>3</sub> C		BEH0882

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #47**  
**23H1480-09 (Water)**

Sampled: 8/15/2023 10:47

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>96.6</b>	mg/L	10.0	1		08/16/23 18:11	SM 2320 B		BEH0838
Calcium	<b>21.8</b>	mg/L	0.1	1		08/17/23 15:52	EPA 200.7		BEH0810
Chloride	<b>27.3</b>	mg/L	0.2	1	250	08/16/23 21:08	EPA 300.0		BEH0804
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/16/23 18:11	SM 2320 B		BEH0838
Electrical Conductivity	<b>0.29</b>	mmhos/cm	0.01	1		08/16/23 18:11	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>286</b>	umhos/cm	10.0	1		08/16/23 18:11	SM 2510 B		BEH0838
Bicarbonate as CaCO <sub>3</sub>	<b>96.6</b>	mg/L	5.00	1		08/16/23 18:11	SM 2320 B		BEH0838
Potassium	<b>1.89</b>	mg/L	0.500	1		08/17/23 15:52	EPA 200.7		BEH0810
Magnesium	<b>7.1</b>	mg/L	0.1	1		08/17/23 15:52	EPA 200.7		BEH0810
Sodium	<b>33</b>	mg/L	1	1		08/17/23 15:52	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 10:47	Field		BEH1009
Nitrate Nitrogen as NO <sub>3</sub> N	<b>2.1</b>	mg/L	0.1	1	10	08/16/23 21:08	EPA 300.0		BEH0804
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/16/23 18:11	SM 2320 B		BEH0838
pH	<b>7.8</b>	units	1.0	1		08/16/23 18:11	SM 4500-H+	H	BEH0838
Sulfate (SO <sub>4</sub> )	<b>5.0</b>	mg/L	0.5	1	250	08/16/23 21:08	EPA 300.0		BEH0804
Total Filterable Solids (TDS)	<b>232</b>	mg/L	10.0	1		08/18/23 10:25	SM 2540 C		BEH0826
Kjeldahl Nitrogen (TKN), Total	<b>4.14</b>	mg/L	1.00	1		08/18/23 14:31	SM 4500-NH <sub>3</sub> C		BEH0882
Total Nitrogen	<b>6.27</b>	mg/L	1.00	1		08/18/23 14:31	SM 4500-NH <sub>3</sub> C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

**Sample: IFF IW #48  
23H1480-10 (Water)**

Sampled: 8/15/2023 8:59

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>215</b>	mg/L	10.0	1		08/16/23 18:15	SM 2320 B		BEH0838
Calcium	<b>59.2</b>	mg/L	0.1	1		08/17/23 15:53	EPA 200.7		BEH0810
Chloride	<b>29.0</b>	mg/L	0.2	1	250	08/16/23 21:29	EPA 300.0		BEH0804
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/16/23 18:15	SM 2320 B		BEH0838
Electrical Conductivity	<b>0.56</b>	mmhos/cm	0.01	1		08/16/23 18:15	SM 2510 B		BEH0838
Electrical Conductivity umhos	<b>560</b>	umhos/cm	10.0	1		08/16/23 18:15	SM 2510 B		BEH0838
Bicarbonate as CaCO <sub>3</sub>	<b>215</b>	mg/L	5.00	1		08/16/23 18:15	SM 2320 B		BEH0838
Potassium	<b>3.66</b>	mg/L	0.500	1		08/17/23 15:53	EPA 200.7		BEH0810
Magnesium	<b>17.6</b>	mg/L	0.1	1		08/17/23 15:53	EPA 200.7		BEH0810
Sodium	<b>41</b>	mg/L	1	1		08/17/23 15:53	EPA 200.7		BEH0810
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 08:59	Field		BEH1009
Nitrate Nitrogen as NO <sub>3</sub> N	<b>6.3</b>	mg/L	0.1	1	10	08/16/23 21:29	EPA 300.0		BEH0804
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/16/23 18:15	SM 2320 B		BEH0838
pH	<b>7.8</b>	units	1.0	1		08/16/23 18:15	SM 4500-H+	H	BEH0838
Sulfate (SO <sub>4</sub> )	<b>26.7</b>	mg/L	0.5	1	250	08/16/23 21:29	EPA 300.0		BEH0804
Total Filterable Solids (TDS)	<b>420</b>	mg/L	10.0	1		08/21/23 16:04	SM 2540 C		BEH0876
Kjeldahl Nitrogen (TKN), Total	<b>7.45</b>	mg/L	1.00	1		08/18/23 14:32	SM 4500-NH <sub>3</sub> C		BEH0882
Total Nitrogen	<b>13.7</b>	mg/L	1.00	1		08/18/23 14:32	SM 4500-NH <sub>3</sub> C		BEH0882

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0804</b>									
<b>Blank (BEH0804-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0804-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0804-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0804-BLK4)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>LCS (BEH0804-BS1)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.0 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
97.2 90-110									
101 90-110									
93.1 90-110									
<b>LCS (BEH0804-BS2)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.8 0.5 mg/L									
99.3 90-110									
103 90-110									
95.1 90-110									
<b>LCS (BEH0804-BS3)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.0 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.6 0.5 mg/L									
97.5 90-110									
101 90-110									
92.6 90-110									
<b>Duplicate (BEH0804-DUP1)</b>									
<b>Source: 23H1480-05</b> Prepared & Analyzed: 8/16/2023									
Chloride 12.9 0.2 mg/L									
13.1 0.792 10									
Nitrate Nitrogen as NO <sub>3</sub> N 0.1 0.1 mg/L									
0.1 1.68 10									
Sulfate (SO <sub>4</sub> ) 22.7 0.5 mg/L									
22.7 0.313 10									
<b>Duplicate (BEH0804-DUP2)</b>									
<b>Source: 23H1483-06</b> Prepared & Analyzed: 8/17/2023									
Chloride 35.4 0.2 mg/L									
35.3 0.455 10									
Nitrate Nitrogen as NO <sub>3</sub> N 4.0 0.1 mg/L									
4.0 0.450 10									
Sulfate (SO <sub>4</sub> ) 7.9 0.5 mg/L									
7.8 1.24 10									

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0804 (Continued)</b>									
<b>Duplicate (BEH0804-DUP3)</b>									
<b>Source: 23H1557-04</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	35.8	0.2	mg/L		36.2			1.20	10
Nitrate Nitrogen as NO3N	8.6	0.1	mg/L		8.7			1.44	10
Sulfate (SO4)	47.0	0.5	mg/L		47.5			1.07	10
<b>Matrix Spike (BEH0804-MS1)</b>									
<b>Source: 23H1480-05</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	18.0	0.2	mg/L	5.000	13.1	99.8	90-110		
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	0.1	99.3	90-110		
Sulfate (SO4)	27.8	0.5	mg/L	5.000	22.7	101	90-110		
<b>Matrix Spike (BEH0804-MS2)</b>									
<b>Source: 23H1483-06</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	40.1	0.2	mg/L	5.000	35.3	95.8	90-110		
Nitrate Nitrogen as NO3N	9.2	0.1	mg/L	5.000	4.0	104	90-110		
Sulfate (SO4)	12.8	0.5	mg/L	5.000	7.8	99.9	90-110		
<b>Matrix Spike (BEH0804-MS3)</b>									
<b>Source: 23H1557-04</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	41.0	0.2	mg/L	5.000	36.2	95.9	90-110		
Nitrate Nitrogen as NO3N	13.8	0.1	mg/L	5.000	8.7	102	90-110		
Sulfate (SO4)	52.1	0.5	mg/L	5.000	47.5	91.5	90-110		
<b>Reference (BEH0804-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.5		mg/L	12.50		100	90-110		
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		100	90-110		
Sulfate (SO4)	9.7		mg/L	10.00		97.2	90-110		
<b>Reference (BEH0804-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.6		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Sulfate (SO4)	9.8		mg/L	10.00		97.7	90-110		
<b>Reference (BEH0804-SRM3)</b>									
Prepared & Analyzed: 8/17/2023									
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)	9.8		mg/L	10.00		98.5	90-110		
<b>Reference (BEH0804-SRM4)</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.5		mg/L	12.50		99.9	90-110		
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		100	90-110		
Sulfate (SO4)	9.6		mg/L	10.00		96.2	90-110		

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0810</b>									
<b>Blank (BEH0810-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEH0810-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
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 (BEH0810-BS1)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Sodium	36	1	mg/L	35.71	102	90-110			
Potassium	36.3	0.500	mg/L	35.71	102	90-110			
Calcium	39.0	0.1	mg/L	35.71	109	90-110			
Magnesium	39.1	0.1	mg/L	35.71	110	90-110			
<b>LCS (BEH0810-BS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Sodium	40	1	mg/L	35.71	111	90-110			
Potassium	38.8	0.500	mg/L	35.71	109	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 (BEH0810-DUP1)</b>									
<b>Source: 23H1479-05</b> Prepared: 8/16/2023 Analyzed: 8/17/2023									
Sodium	76	1	mg/L	76			0.710	15	
Potassium	6.86	0.500	mg/L	7.06			2.88	15	
Calcium	136	0.1	mg/L	140			2.46	15	
Magnesium	42.7	0.1	mg/L	43.1			1.10	15	
<b>Matrix Spike (BEH0810-MS1)</b>									
<b>Source: 23H1479-05</b> Prepared: 8/16/2023 Analyzed: 8/17/2023									
Calcium	178	0.1	mg/L	35.71	140	90-110			
Potassium	46.5	0.500	mg/L	35.71	7.06	110	90-110		
Sodium	115	1	mg/L	35.71	76	107	90-110		
Magnesium	81.8	0.1	mg/L	35.71	43.1	108	90-110		
<b>Matrix Spike (BEH0810-MS2)</b>									
<b>Source: 23H1480-03</b> Prepared: 8/16/2023 Analyzed: 8/17/2023									
Sodium	89	1	mg/L	35.71	51	106	90-110		
Potassium	43.7	0.500	mg/L	35.71	4.43	110	90-110		
Calcium	116	0.1	mg/L	35.71	79.8	99.9	90-110		
Magnesium	60.6	0.1	mg/L	35.71	22.4	107	90-110		
<b>Reference (BEH0810-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/17/2023									
Potassium	23.0		mg/L	21.90		105	90-110		

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0810 (Continued)</b>									
<b>Reference (BEH0810-SRM2)</b>									
Sodium	96		mg/L	91.50		105	90-110		
<b>Reference (BEH0810-SRM3)</b>									
Calcium	49.3		mg/L	45.90		107	90-110		
Magnesium	38.6		mg/L	35.60		108	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: BEH0826</b>									
<b>Blank (BEH0826-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L						
Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>LCS (BEH0826-BS1)</b>									
Total Filterable Solids (TDS)	38.8	10.0	mg/L	2000	1.94	0-200			
Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Duplicate (BEH0826-DUP1)</b>									
Total Filterable Solids (TDS)	783	10.0	mg/L		783			0.00	10
Source: 23H1479-02 Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Duplicate (BEH0826-DUP2)</b>									
Total Filterable Solids (TDS)	940	10.0	mg/L		950			1.06	10
Source: 23H1480-07 Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Reference (BEH0826-SRM1)</b>									
Total Filterable Solids (TDS)	343		mg/L	325.0	106	90-110			
Prepared: 8/16/2023 Analyzed: 8/18/2023									
<b>Reference (BEH0826-SRM2)</b>									
Total Filterable Solids (TDS)	500		mg/L	495.0	101	90-110			
Prepared: 8/16/2023 Analyzed: 8/18/2023									

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0838</b>									
<b>Blank (BEH0838-BLK1)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
pH	4.9	1.0	units						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Prepared & Analyzed: 8/16/2023									
<b>Blank (BEH0838-BLK2)</b>									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
pH	5.3	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Prepared & Analyzed: 8/16/2023									
<b>Blank (BEH0838-BLK3)</b>									
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
pH	5.4	1.0	units						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Prepared & Analyzed: 8/16/2023									
<b>Duplicate (BEH0838-DUP1)</b>									
		<b>Source: 23H1479-04</b>							
pH	7.9	1.0	units		7.8		1.15	10	
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Electrical Conductivity	0.52	0.01	mmhos/cm		0.53		1.90	10	
Alkalinity as CaCO <sub>3</sub>	157	10.0	mg/L		156		1.04	10	
Electrical Conductivity umhos	517	10.0	umhos/cm		527		1.90	10	
Prepared & Analyzed: 8/16/2023									
<b>Duplicate (BEH0838-DUP2)</b>									
		<b>Source: 23H1480-06</b>							
pH	8.0	1.0	units		7.9		0.377	10	
Alkalinity as CaCO <sub>3</sub>	139	10.0	mg/L		136		2.36	10	
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Electrical Conductivity	0.75	0.01	mmhos/cm		0.75		0.521	10	
Electrical Conductivity umhos	750	10.0	umhos/cm		746		0.521	10	
Prepared & Analyzed: 8/16/2023									
<b>Reference (BEH0838-SRM1)</b>									

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0838 (Continued)</b>									
<b>Reference (BEH0838-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Alkalinity as CaCO <sub>3</sub>	40.1		mg/L		40.60	98.7	90-110		
Electrical Conductivity	503		umhos/cm		538.0	93.5	90-110		
<b>Reference (BEH0838-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	518		umhos/cm		538.0	96.2	90-110		
Alkalinity as CaCO <sub>3</sub>	39.5		mg/L		40.60	97.2	90-110		
<b>Reference (BEH0838-SRM3)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	524		umhos/cm		538.0	97.5	90-110		
Alkalinity as CaCO <sub>3</sub>	41.0		mg/L		40.60	101	90-110		
<b>Reference (BEH0838-SRM4)</b>									
Prepared & Analyzed: 8/16/2023									
pH	4.0		units		4.000	101	97.5-102.5		
<b>Reference (BEH0838-SRM5)</b>									
Prepared & Analyzed: 8/16/2023									
pH	4.0		units		4.000	101	97.5-102.5		
<b>Reference (BEH0838-SRM6)</b>									
Prepared & Analyzed: 8/16/2023									
pH	4.0		units		4.000	101	97.5-102.5		
<b>Reference (BEH0838-SRM7)</b>									
Prepared & Analyzed: 8/16/2023									
pH	5.9		units		5.820	101	28178-101.7:		

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0876</b>									
<b>Blank (BEH0876-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023				
<b>LCS (BEH0876-BS1)</b>									
Total Filterable Solids (TDS)	30.0	10.0	mg/L	2000	Prepared: 8/17/2023 Analyzed: 8/21/2023	1.50	0-200		
<b>Duplicate (BEH0876-DUP1)</b>									
Total Filterable Solids (TDS)	950	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	880		7.65	10
<b>Duplicate (BEH0876-DUP2)</b>									
Total Filterable Solids (TDS)	620	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	610		1.63	10
<b>Reference (BEH0876-SRM1)</b>									
Total Filterable Solids (TDS)	327		mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	325.0	101	90-110	
<b>Reference (BEH0876-SRM2)</b>									
Total Filterable Solids (TDS)	480		mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	495.0	97.0	90-110	

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Test

Received: 08/16/2023 9:52

## **Quality Control (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0882</b>									
<b>Blank (BEH0882-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Total Nitrogen	ND	1.00	mg/L						
<b>Blank (BEH0882-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Total Nitrogen	ND	1.00	mg/L						
<b>LCS (BEH0882-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total	5.91	1.00	mg/L	5.709		104	90-110		
<b>LCS (BEH0882-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total	5.77	1.00	mg/L	5.709		101	90-110		
<b>Duplicate (BEH0882-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	3.50	mg/L		Source: 23H1479-02	Prepared: 8/17/2023	Analyzed: 8/18/2023		
						ND			10
<b>Duplicate (BEH0882-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		Source: 23H1480-02	Prepared: 8/17/2023	Analyzed: 8/18/2023		
						ND			10
<b>Matrix Spike (BEH0882-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total	11.1	3.50	mg/L	9.990	Source: 23H1479-02	Prepared: 8/17/2023	Analyzed: 8/18/2023		
						ND	111	90-110	
<b>Matrix Spike (BEH0882-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total	8.20	1.40	mg/L	7.992	Source: 23H1480-02	Prepared: 8/17/2023	Analyzed: 8/18/2023		
						ND	103	90-110	
<b>Reference (BEH0882-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total	25.3		mg/L	23.80		Prepared: 8/17/2023	Analyzed: 8/18/2023		
								107	90-110

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:04

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0885</b>									
<b>Blank (BEH0885-BLK1)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/17/2023				
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0885-BLK3)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/18/2023				
<b>LCS (BEH0885-BS1)</b>									
Chloride	5.0	0.2	mg/L	5.000	100	90-110			
<b>LCS (BEH0885-BS2)</b>									
Chloride	5.0	0.2	mg/L	5.000	99.5	90-110			
<b>Duplicate (BEH0885-DUP1)</b>									
Chloride	29.0	0.2	mg/L	28.9			0.304	10	
<b>Duplicate (BEH0885-DUP2)</b>									
Chloride	2.2	0.2	mg/L	2.2			0.413	10	
<b>Matrix Spike (BEH0885-MS1)</b>									
Chloride	32.9	0.2	mg/L	5.000	28.9	80.4	90-110		
<b>Matrix Spike (BEH0885-MS2)</b>									
Chloride	7.3	0.2	mg/L	5.000	2.2	102	90-110		
<b>Reference (BEH0885-SRM1)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			
<b>Reference (BEH0885-SRM2)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			
<b>Reference (BEH0885-SRM3)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			

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08/16/23 09:52

23H1480

Purchase Order No

Bill To: 15874 | 08

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: IRRIGATION WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

FOR AG

## 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. Samples: 10

No of Bottles:

**Water Type:**  Drinking Water  Wastewater  
 Ag Water  Groundwater  Monitoring Well

Other:

**Analysis and Bottles Required: (Please indicate Analysis)**( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other + TN

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> PURGE
1	IFF IW #20	8/15/23	0848	-0.3	245 min
2	IFF IW #21		0851	-1.1	
3	IFF IW #23		0909	-1.1	
4	IFF IW #24		1500	-9.0	
5	IFF IW #25		1504	-7.8	soil 16/09
6	IFF IW #28		1410	+2 0.7	
7	IFF IW #38		1108	-2.2	
8	IFF IW #44		1134	0.1	
9	IFF IW #47		1047	-2.9	
10	IFF IW #48		0859	0.4	

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1504	8/16/23
Second				
Third				
Fourth	30	DLT	8/16/23 9:52	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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

reimbursed attorneys' fees of Dellavalle Laboratory.

IR Thermometer SN: 200567023  
 Correction Factor: 0°C  
 Calibration Due: 9/26/2023  
 Location: Laboratory

Inventory Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No



08/16/23 09:52

21H1480

<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 checked="" 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"/>						
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b>					<input type="checkbox"/> Received Preserved		<input checked="" 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	1	1	1	1	1	1	1	1	1	1
	* pH Value	C2	C2	C2	C2	C2	C2	C2	C2	C2	C2
	500 mL unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1
1 L unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1	
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	1 L HNO <sub>3</sub> (Red)										
	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)										
Glass	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)										
Special	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)										
	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:											



Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:46  
Reported: 08/23/2023 13:43

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1495-01	TID #14	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 11:46
23H1495-02	TID #16	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 10:15
23H1495-03	TID #18	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 15:24
23H1495-04	TID #19	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 15:18
23H1495-05	TID #24	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 15:53
23H1495-06	TID #25	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 15:56
23H1495-07	TID #26	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 15:58
23H1495-08	TID #29	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 15:43
23H1495-09	TID #41	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 10:08

Default Cooler      Temperature on Receipt °C: -7.1  
 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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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

## Sample Results

**Sample: TID #14  
23H1495-01 (Water)**

Sampled: 8/15/2023 11:46  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>143</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>40.3</b>	mg/L	0.1	1		08/18/23 12:51	EPA 200.7		BEH0825
Chloride	<b>69.9</b>	mg/L	0.2	1	250	08/16/23 22:44	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.51</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>514</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>143</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>1.57</b>	mg/L	0.500	1		08/18/23 12:51	EPA 200.7		BEH0825
Magnesium	<b>12.5</b>	mg/L	0.1	1		08/18/23 12:51	EPA 200.7		BEH0825
Sodium	<b>51</b>	mg/L	1	1		08/18/23 12:51	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 11:46	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>2.0</b>	mg/L	0.1	1	10	08/16/23 22:44	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>6.8</b>	mg/L	0.5	1	250	08/16/23 22:44	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>337</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:08	SM 4500-NH <sub>3</sub> C		BEH0984
<b>Total Nitrogen</b>	<b>2.04</b>	mg/L	1.00	1		08/22/23 13:08	SM 4500-NH <sub>3</sub> C		BEH0984

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #16**  
**23H1495-02 (Water)**

Sampled: 8/15/2023 10:15

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>259</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>100</b>	mg/L	0.1	1		08/18/23 12:53	EPA 200.7		BEH0825
Chloride	<b>86.1</b>	mg/L	0.2	1	250	08/16/23 23:04	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.86</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>856</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>259</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>4.66</b>	mg/L	0.500	1		08/18/23 12:53	EPA 200.7		BEH0825
Magnesium	<b>28.4</b>	mg/L	0.1	1		08/18/23 12:53	EPA 200.7		BEH0825
Sodium	<b>47</b>	mg/L	1	1		08/18/23 12:53	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 10:15	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>2.3</b>	mg/L	0.1	1	10	08/16/23 23:04	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>7.7</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>98.8</b>	mg/L	0.5	1	250	08/16/23 23:04	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>630</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:09	SM 4500-NH <sub>3</sub> C		BEH0984
<b>Total Nitrogen</b>	<b>2.51</b>	mg/L	1.00	1		08/22/23 13:09	SM 4500-NH <sub>3</sub> C		BEH0984

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #18**  
**23H1495-03 (Water)**

Sampled: 8/15/2023 15:24

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>168</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>39.8</b>	mg/L	0.1	1		08/18/23 12:54	EPA 200.7		BEH0825
Chloride	<b>29.0</b>	mg/L	0.2	1	250	08/16/23 23:24	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.43</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>432</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>168</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>1.41</b>	mg/L	0.500	1		08/18/23 12:54	EPA 200.7		BEH0825
Magnesium	<b>13.1</b>	mg/L	0.1	1		08/18/23 12:54	EPA 200.7		BEH0825
Sodium	<b>32</b>	mg/L	1	1		08/18/23 12:54	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:24	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>3.4</b>	mg/L	0.1	1	10	08/16/23 23:24	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>12.4</b>	mg/L	0.5	1	250	08/16/23 23:24	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>305</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:10	SM 4500-NH <sub>3</sub> C		BEH0984
<b>Total Nitrogen</b>	<b>3.39</b>	mg/L	1.00	1		08/22/23 13:10	SM 4500-NH <sub>3</sub> C		BEH0984

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #19**  
**23H1495-04 (Water)**

Sampled: 8/15/2023 15:18

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>272</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>79.4</b>	mg/L	0.1	1		08/18/23 12:55	EPA 200.7		BEH0825
Chloride	<b>43.5</b>	mg/L	0.2	1	250	08/16/23 23:44	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.71</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>706</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>272</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>2.97</b>	mg/L	0.500	1		08/18/23 12:55	EPA 200.7		BEH0825
Magnesium	<b>25.1</b>	mg/L	0.1	1		08/18/23 12:55	EPA 200.7		BEH0825
Sodium	<b>45</b>	mg/L	1	1		08/18/23 12:55	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:18	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>9.5</b>	mg/L	0.1	1	10	08/16/23 23:44	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>32.6</b>	mg/L	0.5	1	250	08/16/23 23:44	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>500</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:12	SM 4500-NH <sub>3</sub> C		BEH0984
Total Nitrogen	<b>9.49</b>	mg/L	1.00	1		08/22/23 13:12	SM 4500-NH <sub>3</sub> C		BEH0984

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #24**  
**23H1495-05 (Water)**

Sampled: 8/15/2023 15:53

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>300</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>77.4</b>	mg/L	0.1	1		08/18/23 12:56	EPA 200.7		BEH0825
Chloride	<b>35.1</b>	mg/L	0.2	1	250	08/17/23 00:04	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.73</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>731</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>300</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>3.71</b>	mg/L	0.500	1		08/18/23 12:56	EPA 200.7		BEH0825
Magnesium	<b>21.8</b>	mg/L	0.1	1		08/18/23 12:56	EPA 200.7		BEH0825
Sodium	<b>56</b>	mg/L	1	1		08/18/23 12:56	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:53	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>9.9</b>	mg/L	0.1	1	10	08/17/23 00:04	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>8.1</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>22.7</b>	mg/L	0.5	1	250	08/17/23 00:04	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>530</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:13	SM 4500-NH <sub>3</sub> C		BEH0984
<b>Total Nitrogen</b>	<b>9.88</b>	mg/L	1.00	1		08/22/23 13:13	SM 4500-NH <sub>3</sub> C		BEH0984

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #25**  
**23H1495-06 (Water)**

Sampled: 8/15/2023 15:56

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>312</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>102</b>	mg/L	0.1	1		08/18/23 12:57	EPA 200.7		BEH0825
Chloride	<b>62.1</b>	mg/L	0.2	1	250	08/17/23 00:25	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.89</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>894</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>312</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>5.31</b>	mg/L	0.500	1		08/18/23 12:57	EPA 200.7		BEH0825
Magnesium	<b>28.6</b>	mg/L	0.1	1		08/18/23 12:57	EPA 200.7		BEH0825
Sodium	<b>60</b>	mg/L	1	1		08/18/23 12:57	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:56	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>15.3</b>	mg/L	0.1	1	10	08/17/23 00:25	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>7.9</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>31.7</b>	mg/L	0.5	1	250	08/17/23 00:25	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>640</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:15	SM 4500-NH <sub>3</sub> C		BEH0984
Total Nitrogen	<b>15.3</b>	mg/L	1.00	1		08/22/23 13:15	SM 4500-NH <sub>3</sub> C		BEH0984

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16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #26**  
**23H1495-07 (Water)**

Sampled: 8/15/2023 15:58

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>220</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>73.1</b>	mg/L	0.1	1		08/18/23 12:59	EPA 200.7		BEH0825
Chloride	<b>41.9</b>	mg/L	0.2	1	250	08/17/23 00:45	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.67</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>672</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>220</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>3.67</b>	mg/L	0.500	1		08/18/23 12:59	EPA 200.7		BEH0825
Magnesium	<b>18.6</b>	mg/L	0.1	1		08/18/23 12:59	EPA 200.7		BEH0825
Sodium	<b>45</b>	mg/L	1	1		08/18/23 12:59	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:58	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>15.0</b>	mg/L	0.1	1	10	08/17/23 00:45	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>25.0</b>	mg/L	0.5	1	250	08/17/23 00:45	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>470</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:16	SM 4500-NH <sub>3</sub> C		BEH0984
Total Nitrogen	<b>15.0</b>	mg/L	1.00	1		08/22/23 13:16	SM 4500-NH <sub>3</sub> C		BEH0984

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16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #29**  
**23H1495-08 (Water)**

Sampled: 8/15/2023 15:43

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>274</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>70.3</b>	mg/L	0.1	1		08/18/23 13:00	EPA 200.7		BEH0825
Chloride	<b>13.6</b>	mg/L	0.2	1	250	08/17/23 01:05	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.57</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>568</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>274</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>2.60</b>	mg/L	0.500	1		08/18/23 13:00	EPA 200.7		BEH0825
Magnesium	<b>21.2</b>	mg/L	0.1	1		08/18/23 13:00	EPA 200.7		BEH0825
Sodium	<b>36</b>	mg/L	1	1		08/18/23 13:00	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 15:43	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>3.6</b>	mg/L	0.1	1	10	08/17/23 01:05	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>7.9</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>11.4</b>	mg/L	0.5	1	250	08/17/23 01:05	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>397</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:17	SM 4500-NH <sub>3</sub> C		BEH0984
Total Nitrogen	<b>3.57</b>	mg/L	1.00	1		08/22/23 13:17	SM 4500-NH <sub>3</sub> C		BEH0984

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16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

**Sample: TID #41**  
**23H1495-09 (Water)**

Sampled: 8/15/2023 10:08

Sampled By: F & R Ag

**Sample Results**  
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>326</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>113</b>	mg/L	0.1	1		08/18/23 13:01	EPA 200.7		BEH0825
Chloride	<b>75.8</b>	mg/L	0.2	1	250	08/17/23 01:25	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.95</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>947</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>326</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>4.68</b>	mg/L	0.500	1		08/18/23 13:01	EPA 200.7		BEH0825
Magnesium	<b>32.0</b>	mg/L	0.1	1		08/18/23 13:01	EPA 200.7		BEH0825
Sodium	<b>51</b>	mg/L	1	1		08/18/23 13:01	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 10:08	Field		BEH1015
Nitrate Nitrogen as NO <sub>3</sub> N	<b>5.8</b>	mg/L	0.1	1	10	08/17/23 01:25	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>7.9</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>58.8</b>	mg/L	0.5	1	250	08/17/23 01:25	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>530</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:19	SM 4500-NH <sub>3</sub> C		BEH0984
Total Nitrogen	<b>5.84</b>	mg/L	1.00	1		08/22/23 13:19	SM 4500-NH <sub>3</sub> C		BEH0984

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16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806</b>									
<b>Blank (BEH0806-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK4)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>LCS (BEH0806-BS1)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
98.8 90-110									
<b>LCS (BEH0806-BS2)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.0 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
97.9 90-110									
<b>LCS (BEH0806-BS3)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.8 0.5 mg/L									
99.5 90-110									
<b>Duplicate (BEH0806-DUP1)</b>									
<b>Source: 23H1490-03</b> Prepared & Analyzed: 8/16/2023									
Chloride 20.1 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 1.7 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 5.7 0.5 mg/L									
20.3 1.17 10									
<b>Duplicate (BEH0806-DUP2)</b>									
<b>Source: 23H1494-01</b> Prepared & Analyzed: 8/17/2023									
Chloride 6.7 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 2.4 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 15.5 0.5 mg/L									
6.6 0.420 10									
2.4 0.451 10									
15.5 0.0388 10									

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Account Manager: Ben Nydam  
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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806 (Continued)</b>									
<b>Duplicate (BEH0806-DUP3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	19.0	0.2	mg/L		19.0			0.148	10
Nitrate Nitrogen as NO3N	1.1	0.1	mg/L		1.1			0.371	10
Sulfate (SO4)	2.8	0.5	mg/L		2.7			0.509	10
<b>Matrix Spike (BEH0806-MS1)</b>									
<b>Source: 23H1490-03</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	25.5	0.2	mg/L	5.000	20.3	104	90-110		
Nitrate Nitrogen as NO3N	6.9	0.1	mg/L	5.000	1.7	105	90-110		
Sulfate (SO4)	10.9	0.5	mg/L	5.000	5.8	103	90-110		
<b>Matrix Spike (BEH0806-MS2)</b>									
<b>Source: 23H1494-01</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	11.7	0.2	mg/L	5.000	6.6	102	90-110		
Nitrate Nitrogen as NO3N	7.6	0.1	mg/L	5.000	2.4	104	90-110		
Sulfate (SO4)	20.5	0.5	mg/L	5.000	15.5	102	90-110		
<b>Matrix Spike (BEH0806-MS3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	23.6	0.2	mg/L	5.000	19.0	93.3	90-110		
Nitrate Nitrogen as NO3N	6.3	0.1	mg/L	5.000	1.1	104	90-110		
Sulfate (SO4)	7.8	0.5	mg/L	5.000	2.7	102	90-110		
<b>Reference (BEH0806-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.7		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Sulfate (SO4)	9.9		mg/L	10.00		99.2	90-110		
<b>Reference (BEH0806-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
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 (BEH0806-SRM3)</b>									
Prepared & Analyzed: 8/17/2023									
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 (BEH0806-SRM4)</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.9		mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110		
Sulfate (SO4)	10.1		mg/L	10.00		101	90-110		

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Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0825</b>									
<b>Blank (BEH0825-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
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 (BEH0825-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEH0825-BS1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	41.8	0.1	mg/L	35.71		117	90-110		
Sodium	39	1	mg/L	35.71		110	90-110		
Potassium	40.5	0.500	mg/L	35.71		113	90-110		
Magnesium	41.6	0.1	mg/L	35.71		117	90-110		
<b>LCS (BEH0825-BS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	38.9	0.1	mg/L	35.71		109	90-110		
Potassium	37.8	0.500	mg/L	35.71		106	90-110		
Sodium	37	1	mg/L	35.71		103	90-110		
Magnesium	38.9	0.1	mg/L	35.71		109	90-110		
<b>Duplicate (BEH0825-DUP1)</b>									
<b>Source: 23H1494-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	21	1	mg/L	22			3.96	15	
Calcium	21.2	0.1	mg/L	21.2			0.424	15	
Potassium	3.72	0.500	mg/L	3.92			5.34	15	
Magnesium	8.3	0.1	mg/L	8.2			0.535	15	
<b>Matrix Spike (BEH0825-MS1)</b>									
<b>Source: 23H1494-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	60.3	0.1	mg/L	35.71	21.2	109	90-110		
Potassium	43.1	0.500	mg/L	35.71	3.92	110	90-110		
Sodium	61	1	mg/L	35.71	22	111	90-110		
Magnesium	47.1	0.1	mg/L	35.71	8.2	109	90-110		
<b>Matrix Spike (BEH0825-MS2)</b>									
<b>Source: 23H1496-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	47.7	0.500	mg/L	35.71	5.28	119	90-110		
Calcium	187	0.1	mg/L	35.71	144	121	90-110		
Sodium	123	1	mg/L	35.71	83	111	90-110		
Magnesium	82.5	0.1	mg/L	35.71	41.9	114	90-110		
<b>Reference (BEH0825-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	24.1		mg/L	21.90		110	90-110		

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0825 (Continued)</b>									
<b>Reference (BEH0825-SRM2)</b>									
Sodium	88		mg/L	91.50		96.1	90-110		
<b>Reference (BEH0825-SRM3)</b>									
Calcium	50.3		mg/L	45.90		110	90-110		
Magnesium	39.0		mg/L	35.60		109	90-110		

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Received: 08/16/2023 11:35  
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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0841</b>									
<b>Blank (BEH0841-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	5.2	1.0	units						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0841-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.3	1.0	units						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0841-BLK3)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0841-DUP1)</b>									
Source: 23H1494-01 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Electrical Conductivity	0.26	0.01	mmhos/cm		0.26			1.24	10
pH	8.0	1.0	units		7.9			1.14	10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Alkalinity as CaCO <sub>3</sub>	109	10.0	mg/L		107			2.19	10
Electrical Conductivity umhos	260	10.0	umhos/cm		257			1.24	10
<b>Duplicate (BEH0841-DUP2)</b>									
Source: 23H1496-03 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
pH	8.0	1.0	units		7.9			1.01	10
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Electrical Conductivity	1.47	0.01	mmhos/cm		1.45			1.05	10
Alkalinity as CaCO <sub>3</sub>	470	10.0	mg/L		480			1.95	10
Electrical Conductivity umhos	1470	10.0	umhos/cm		1450			1.05	10
<b>Reference (BEH0841-SRM1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									

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16500 Ave 14  
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Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0841 (Continued)</b>									
<b>Reference (BEH0841-SRM1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO <sub>3</sub>	39.8		mg/L	40.60	98.1	90-110			
Electrical Conductivity	522		umhos/cm	538.0	97.1	90-110			
<b>Reference (BEH0841-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO <sub>3</sub>	39.8		mg/L	40.60	98.1	90-110			
Electrical Conductivity	529		umhos/cm	538.0	98.3	90-110			
<b>Reference (BEH0841-SRM3)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO <sub>3</sub>	41.1		mg/L	40.60	101	90-110			
Electrical Conductivity	550		umhos/cm	538.0	102	90-110			
<b>Reference (BEH0841-SRM4)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEH0841-SRM5)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEH0841-SRM6)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	101	97.5-102.5			
<b>Reference (BEH0841-SRM7)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	5.9		units	5.820	101	28178-101.7:			

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Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0879</b>									
<b>Blank (BEH0879-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L						
Prepared: 8/17/2023 Analyzed: 8/22/2023									
<b>LCS (BEH0879-BS1)</b>									
Total Filterable Solids (TDS)	26.2	10.0	mg/L	2000	1.31	0-200			
Prepared: 8/17/2023 Analyzed: 8/22/2023									
<b>Duplicate (BEH0879-DUP1)</b>									
Total Filterable Solids (TDS)	500	10.0	mg/L	500			0.00	10	
Source: 23H1495-04 Prepared: 8/17/2023 Analyzed: 8/22/2023									
<b>Duplicate (BEH0879-DUP2)</b>									
Total Filterable Solids (TDS)	1510	10.0	mg/L	1560			3.26	10	
Source: 23H1496-02 Prepared: 8/17/2023 Analyzed: 8/22/2023									
<b>Reference (BEH0879-SRM1)</b>									
Total Filterable Solids (TDS)	397		mg/L	325.0	122	90-110			
Prepared: 8/17/2023 Analyzed: 8/22/2023									
<b>Reference (BEH0879-SRM2)</b>									
Total Filterable Solids (TDS)	517		mg/L	495.0	104	90-110			
Prepared: 8/17/2023 Analyzed: 8/22/2023									

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 11:35  
Reported: 08/23/2023 13:43

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0984</b>									
<b>Blank (BEH0984-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.00             mg/L									
Total Nitrogen									
ND                  1.00             mg/L									
<b>Blank (BEH0984-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.00             mg/L									
Total Nitrogen									
ND                  1.00             mg/L									
<b>LCS (BEH0984-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.58              1.00             mg/L									
5.709            97.8          90-110									
<b>LCS (BEH0984-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.82              1.00             mg/L									
5.709            102          90-110									
<b>Duplicate (BEH0984-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.40             mg/L									
ND                  10									
<b>Duplicate (BEH0984-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  3.50             mg/L									
ND                  10									
<b>Matrix Spike (BEH0984-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
8.64              1.40             mg/L									
7.992            ND          108          90-110									
<b>Matrix Spike (BEH0984-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
11.1              3.50             mg/L									
9.990            ND          111          90-110									
<b>Reference (BEH0984-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total									
25.0              mg/L									
23.80            105          90-110									

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08/16/23 11:35

23H1495

Purchase Order No

Bill To: 14117 | 08  
Acct # Cons #

Results Need By

Name: Tri test Dairy

Address: 16500 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Danny Iest

PROJECT:

CROP: IRRIGATION WELLS

 Copy of Chain  QA/QC Documents

Sampled By:

FOR AG

## 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. Samples: 9 No of Bottles:

**Water Type:**  Drinking Water  Wastewater  
 Ag Water  Groundwater  Monitoring Well

Other:

**Analysis and Bottles Required: (Please indicate Analysis)**( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other + TN

## Description of Samples

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N PURGE
8/15/23			>45 MIN
	1146	-7.1	
	1015	-9.8	
	1524	-8.1	
	1518	-8.6	
	1553	-9.4	
	1556	-7.0	
	1558	-8.0	
	1543	-7.7	
	1008	-6.9	

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1058	8/16/23
Second				
Third				
Fourth	DR	DLZ	8/16/23 9:52	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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

Inventory Information:	Shipping		
Sampling hrs	\$ In		
Miles	\$ Out		
Consulting			
Amt Paid	Rec By	Check #	Date

## Signature

\* Sample received in cooler with ice (coolant)  
 Yes  No

IR Thermometer SN: 200560723  
 Correction Factor: 0°C  
 Calibration Due: 9/25/2023  
 Location: Laboratory



08/16/23 11:35

23H1495

JG

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

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

Container: Ice Chest  Box  None

Refrigerant: Wet Ice  Blue Ice  None

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

**Type of Container(s) Received**

**Sample Number**

1 2 3 4 5 6 7 8 9 10

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

(Containers that go into the Lab)

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	* pH Value										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	1	1	1	1	1	1	1	1	1	1
	* pH Value	C2	C2	C2	S2	S2	C2	I2	C2	C2	C2
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
<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)										
Special	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	1 L AG HCl (Blue)										
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b>											
(Containers that go in the Subcontract ("Send Out") Refrigerator)											
pH Strips											
Lot: 10BDH4501 Exp: Jan 2025											



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1496-01	IFF IW #52	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 9:47
23H1496-02	IFF IW #63	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 14:01
23H1496-03	IFF IW #65	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 14:06
23H1496-04	IFF IW #68	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 14:15
23H1496-05	IFF IW #88	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 11:15
23H1496-06	IFF IW #92	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 10:44
23H1496-07	IFF IW #93	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 16:26
23H1496-08	IFF IW #112	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 16:52
23H1496-09	IFF IW #115	Ag Water	F & R Ag	Irrigation Wells	08/15/2023 9:21

Default Cooler      Temperature on Receipt °C: 1.0  
 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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Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

## Sample Results

**Sample: IFF IW #52  
23H1496-01 (Water)**

Sampled: 8/15/2023 9:47  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>424</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>144</b>	mg/L	0.1	1		08/18/23 13:10	EPA 200.7		BEH0825
Chloride	<b>114</b>	mg/L	0.2	1	250	08/17/23 04:49	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>1.27</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>1270</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>424</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>5.28</b>	mg/L	0.500	1		08/18/23 13:10	EPA 200.7		BEH0825
Magnesium	<b>41.9</b>	mg/L	0.1	1		08/18/23 13:10	EPA 200.7		BEH0825
Sodium	<b>83</b>	mg/L	1	1		08/18/23 13:10	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 09:47	Field		BEH0812
Nitrate Nitrogen as NO <sub>3</sub> N	<b>11.5</b>	mg/L	0.1	1	10	08/17/23 04:49	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>69.4</b>	mg/L	0.5	1	250	08/17/23 04:49	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>870</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:28	SM 4500-NH <sub>3</sub> C		BEH0984
Total Nitrogen	<b>11.5</b>	mg/L	1.00	1		08/22/23 13:28	SM 4500-NH <sub>3</sub> C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #63  
23H1496-02 (Water)**

Sampled: 8/15/2023 14:01

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>555</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Calcium</b>	<b>254</b>	mg/L	0.1	1		08/18/23 13:11	EPA 200.7		BEH0825
<b>Chloride</b>	<b>185</b>	mg/L	0.2	1	250	08/17/23 05:09	EPA 300.0		BEH0806
Carbonate as CaCO3	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Electrical Conductivity</b>	<b>2.03</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Electrical Conductivity umhos</b>	<b>2030</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Bicarbonate as CaCO3</b>	<b>555</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Potassium</b>	<b>3.32</b>	mg/L	0.500	1		08/18/23 13:11	EPA 200.7		BEH0825
<b>Magnesium</b>	<b>61.1</b>	mg/L	0.1	1		08/18/23 13:11	EPA 200.7		BEH0825
<b>Sodium</b>	<b>122</b>	mg/L	1	1		08/18/23 13:11	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:01	Field		BEH0812
<b>Nitrate Nitrogen as NO3N</b>	<b>48.6</b>	mg/L	0.1	1	10	08/17/23 05:09	EPA 300.0		BEH0806
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>pH</b>	<b>7.7</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
<b>Sulfate (SO4)</b>	<b>120</b>	mg/L	0.5	1	250	08/17/23 05:09	EPA 300.0		BEH0806
<b>Total Filterable Solids (TDS)</b>	<b>1560</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:30	SM 4500-NH3 C		BEH0984
<b>Total Nitrogen</b>	<b>48.6</b>	mg/L	1.00	1		08/22/23 13:30	SM 4500-NH3 C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #65  
23H1496-03 (Water)**

Sampled: 8/15/2023 14:06

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>480</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Calcium</b>	<b>169</b>	mg/L	0.1	1		08/18/23 13:12	EPA 200.7		BEH0825
<b>Chloride</b>	<b>114</b>	mg/L	0.2	1	250	08/17/23 05:29	EPA 300.0		BEH0806
Carbonate as CaCO3	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Electrical Conductivity</b>	<b>1.45</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Electrical Conductivity umhos</b>	<b>1450</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Bicarbonate as CaCO3</b>	<b>480</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Potassium</b>	<b>7.10</b>	mg/L	0.500	1		08/18/23 13:12	EPA 200.7		BEH0825
<b>Magnesium</b>	<b>53.0</b>	mg/L	0.1	1		08/18/23 13:12	EPA 200.7		BEH0825
<b>Sodium</b>	<b>86</b>	mg/L	1	1		08/18/23 13:12	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:06	Field		BEH0812
<b>Nitrate Nitrogen as NO3N</b>	<b>27.3</b>	mg/L	0.1	1	10	08/17/23 05:29	EPA 300.0		BEH0806
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>pH</b>	<b>7.9</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
<b>Sulfate (SO4)</b>	<b>48.9</b>	mg/L	0.5	1	250	08/17/23 05:29	EPA 300.0		BEH0806
<b>Total Filterable Solids (TDS)</b>	<b>1090</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:31	SM 4500-NH3 C		BEH0984
<b>Total Nitrogen</b>	<b>27.3</b>	mg/L	1.00	1		08/22/23 13:31	SM 4500-NH3 C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #68  
23H1496-04 (Water)**

Sampled: 8/15/2023 14:15

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>464</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>152</b>	mg/L	0.1	1		08/18/23 13:13	EPA 200.7		BEH0825
Chloride	<b>117</b>	mg/L	0.2	1	250	08/17/23 05:49	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>1.43</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>1430</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>464</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>5.45</b>	mg/L	0.500	1		08/18/23 13:13	EPA 200.7		BEH0825
Magnesium	<b>47.2</b>	mg/L	0.1	1		08/18/23 13:13	EPA 200.7		BEH0825
Sodium	<b>100</b>	mg/L	1	1		08/18/23 13:13	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:15	Field		BEH0812
Nitrate Nitrogen as NO <sub>3</sub> N	<b>24.6</b>	mg/L	0.1	1	10	08/17/23 05:49	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>7.8</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>48.3</b>	mg/L	0.5	1	250	08/17/23 05:49	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>970</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:32	SM 4500-NH <sub>3</sub> C		BEH0984
<b>Total Nitrogen</b>	<b>24.6</b>	mg/L	1.00	1		08/22/23 13:32	SM 4500-NH <sub>3</sub> C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #88  
23H1496-05 (Water)**

Sampled: 8/15/2023 11:15

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>117</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Calcium</b>	<b>45.6</b>	mg/L	0.1	1		08/18/23 13:14	EPA 200.7		BEH0825
<b>Chloride</b>	<b>88.4</b>	mg/L	0.2	1	250	08/17/23 06:09	EPA 300.0		BEH0806
Carbonate as CaCO3	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Electrical Conductivity</b>	<b>0.56</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Electrical Conductivity umhos</b>	<b>558</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Bicarbonate as CaCO3</b>	<b>117</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Potassium</b>	<b>2.86</b>	mg/L	0.500	1		08/18/23 13:14	EPA 200.7		BEH0825
<b>Magnesium</b>	<b>11.5</b>	mg/L	0.1	1		08/18/23 13:14	EPA 200.7		BEH0825
<b>Sodium</b>	<b>46</b>	mg/L	1	1		08/18/23 13:14	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 11:15	Field		BEH0812
<b>Nitrate Nitrogen as NO3N</b>	<b>2.7</b>	mg/L	0.1	1	10	08/17/23 06:09	EPA 300.0		BEH0806
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>pH</b>	<b>7.9</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
<b>Sulfate (SO4)</b>	<b>6.1</b>	mg/L	0.5	1	250	08/17/23 06:09	EPA 300.0		BEH0806
<b>Total Filterable Solids (TDS)</b>	<b>397</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:34	SM 4500-NH3 C		BEH0984
<b>Total Nitrogen</b>	<b>2.70</b>	mg/L	1.00	1		08/22/23 13:34	SM 4500-NH3 C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #92  
23H1496-06 (Water)**

Sampled: 8/15/2023 10:44

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>431</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Calcium</b>	<b>125</b>	mg/L	0.1	1		08/18/23 13:16	EPA 200.7		BEH0825
<b>Chloride</b>	<b>72.6</b>	mg/L	0.2	1	250	08/17/23 06:29	EPA 300.0		BEH0806
Carbonate as CaCO3	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Electrical Conductivity</b>	<b>1.22</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Electrical Conductivity umhos</b>	<b>1220</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Bicarbonate as CaCO3</b>	<b>431</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Potassium</b>	<b>6.40</b>	mg/L	0.500	1		08/18/23 13:16	EPA 200.7		BEH0825
<b>Magnesium</b>	<b>41.5</b>	mg/L	0.1	1		08/18/23 13:16	EPA 200.7		BEH0825
<b>Sodium</b>	<b>90</b>	mg/L	1	1		08/18/23 13:16	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 10:44	Field		BEH0812
<b>Nitrate Nitrogen as NO3N</b>	<b>18.0</b>	mg/L	0.1	1	10	08/17/23 06:29	EPA 300.0		BEH0806
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>pH</b>	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
<b>Sulfate (SO4)</b>	<b>64.7</b>	mg/L	0.5	1	250	08/17/23 06:29	EPA 300.0		BEH0806
<b>Total Filterable Solids (TDS)</b>	<b>860</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:35	SM 4500-NH3 C		BEH0984
<b>Total Nitrogen</b>	<b>18.0</b>	mg/L	1.00	1		08/22/23 13:35	SM 4500-NH3 C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #93  
23H1496-07 (Water)**

Sampled: 8/15/2023 16:26

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>69.7</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Calcium</b>	<b>18.3</b>	mg/L	0.1	1		08/18/23 13:17	EPA 200.7		BEH0825
<b>Chloride</b>	<b>19.0</b>	mg/L	0.2	1	250	08/17/23 06:50	EPA 300.0		BEH0806
Carbonate as CaCO3	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Electrical Conductivity</b>	<b>0.21</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Electrical Conductivity umhos</b>	<b>213</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Bicarbonate as CaCO3</b>	<b>69.7</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Potassium</b>	<b>3.07</b>	mg/L	0.500	1		08/18/23 13:17	EPA 200.7		BEH0825
<b>Magnesium</b>	<b>4.6</b>	mg/L	0.1	1		08/18/23 13:17	EPA 200.7		BEH0825
<b>Sodium</b>	<b>18</b>	mg/L	1	1		08/18/23 13:17	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 16:26	Field		BEH0812
<b>Nitrate Nitrogen as NO3N</b>	<b>1.1</b>	mg/L	0.1	1	10	08/17/23 06:50	EPA 300.0		BEH0806
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>pH</b>	<b>7.9</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
<b>Sulfate (SO4)</b>	<b>2.7</b>	mg/L	0.5	1	250	08/17/23 06:50	EPA 300.0		BEH0806
<b>Total Filterable Solids (TDS)</b>	<b>190</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:37	SM 4500-NH3 C		BEH0984
<b>Total Nitrogen</b>	<b>1.08</b>	mg/L	1.00	1		08/22/23 13:37	SM 4500-NH3 C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #112  
23H1496-08 (Water)**

Sampled: 8/15/2023 16:52

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO3</b>	<b>137</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Calcium</b>	<b>40.2</b>	mg/L	0.1	1		08/18/23 13:18	EPA 200.7		BEH0825
<b>Chloride</b>	<b>28.0</b>	mg/L	0.2	1	250	08/17/23 07:10	EPA 300.0		BEH0806
Carbonate as CaCO3	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Electrical Conductivity</b>	<b>0.46</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Electrical Conductivity umhos</b>	<b>460</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
<b>Bicarbonate as CaCO3</b>	<b>137</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>Potassium</b>	<b>2.94</b>	mg/L	0.500	1		08/18/23 13:18	EPA 200.7		BEH0825
<b>Magnesium</b>	<b>15.4</b>	mg/L	0.1	1		08/18/23 13:18	EPA 200.7		BEH0825
<b>Sodium</b>	<b>30</b>	mg/L	1	1		08/18/23 13:18	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 16:52	Field		BEH0812
<b>Nitrate Nitrogen as NO3N</b>	<b>11.3</b>	mg/L	0.1	1	10	08/17/23 07:10	EPA 300.0		BEH0806
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
<b>pH</b>	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
<b>Sulfate (SO4)</b>	<b>11.3</b>	mg/L	0.5	1	250	08/17/23 07:10	EPA 300.0		BEH0806
<b>Total Filterable Solids (TDS)</b>	<b>355</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:38	SM 4500-NH3 C		BEH0984
<b>Total Nitrogen</b>	<b>11.3</b>	mg/L	1.00	1		08/22/23 13:38	SM 4500-NH3 C		BEH0984

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

**Sample: IFF IW #115  
23H1496-09 (Water)**

Sampled: 8/15/2023 9:21

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>105</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>68.0</b>	mg/L	0.1	1		08/18/23 13:19	EPA 200.7		BEH0825
Chloride	<b>157</b>	mg/L	0.2	1	250	08/17/23 20:04	EPA 300.0		BEH0885
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.75</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>749</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>105</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>1.65</b>	mg/L	0.500	1		08/18/23 13:19	EPA 200.7		BEH0825
Magnesium	<b>11.0</b>	mg/L	0.1	1		08/18/23 13:19	EPA 200.7		BEH0825
Sodium	<b>60</b>	mg/L	1	1		08/18/23 13:19	EPA 200.7		BEH0825
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 09:21	Field		BEH0812
Nitrate Nitrogen as NO <sub>3</sub> N	<b>2.1</b>	mg/L	0.1	1	10	08/17/23 07:30	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>8.0</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>7.5</b>	mg/L	0.5	1	250	08/17/23 07:30	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>590</b>	mg/L	10.0	1		08/22/23 15:07	SM 2540 C		BEH0879
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:40	SM 4500-NH <sub>3</sub> C		BEH0984
<b>Total Nitrogen</b>	<b>2.06</b>	mg/L	1.00	1		08/22/23 13:40	SM 4500-NH <sub>3</sub> C		BEH0984

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806</b>									
<b>Blank (BEH0806-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK4)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>LCS (BEH0806-BS1)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
98.8 90-110									
<b>LCS (BEH0806-BS2)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.0 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
97.9 90-110									
<b>LCS (BEH0806-BS3)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.8 0.5 mg/L									
99.5 90-110									
<b>Duplicate (BEH0806-DUP1)</b>									
<b>Source: 23H1490-03</b> Prepared & Analyzed: 8/16/2023									
Chloride 20.1 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 1.7 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 5.7 0.5 mg/L									
20.3 1.17 10									
<b>Duplicate (BEH0806-DUP2)</b>									
<b>Source: 23H1494-01</b> Prepared & Analyzed: 8/17/2023									
Chloride 6.7 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 2.4 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 15.5 0.5 mg/L									
6.6 0.420 10									
2.4 0.451 10									
15.5 0.0388 10									

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806 (Continued)</b>									
<b>Duplicate (BEH0806-DUP3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	19.0	0.2	mg/L		19.0			0.148	10
Nitrate Nitrogen as NO3N	1.1	0.1	mg/L		1.1			0.371	10
Sulfate (SO4)	2.8	0.5	mg/L		2.7			0.509	10
<b>Matrix Spike (BEH0806-MS1)</b>									
<b>Source: 23H1490-03</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	25.5	0.2	mg/L	5.000	20.3	104	90-110		
Nitrate Nitrogen as NO3N	6.9	0.1	mg/L	5.000	1.7	105	90-110		
Sulfate (SO4)	10.9	0.5	mg/L	5.000	5.8	103	90-110		
<b>Matrix Spike (BEH0806-MS2)</b>									
<b>Source: 23H1494-01</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	11.7	0.2	mg/L	5.000	6.6	102	90-110		
Nitrate Nitrogen as NO3N	7.6	0.1	mg/L	5.000	2.4	104	90-110		
Sulfate (SO4)	20.5	0.5	mg/L	5.000	15.5	102	90-110		
<b>Matrix Spike (BEH0806-MS3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	23.6	0.2	mg/L	5.000	19.0	93.3	90-110		
Nitrate Nitrogen as NO3N	6.3	0.1	mg/L	5.000	1.1	104	90-110		
Sulfate (SO4)	7.8	0.5	mg/L	5.000	2.7	102	90-110		
<b>Reference (BEH0806-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.7		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Sulfate (SO4)	9.9		mg/L	10.00		99.2	90-110		
<b>Reference (BEH0806-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
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 (BEH0806-SRM3)</b>									
Prepared & Analyzed: 8/17/2023									
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 (BEH0806-SRM4)</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.9		mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110		
Sulfate (SO4)	10.1		mg/L	10.00		101	90-110		

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0825</b>									
<b>Blank (BEH0825-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEH0825-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEH0825-BS1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	41.8	0.1	mg/L	35.71		117	90-110		
Potassium	40.5	0.500	mg/L	35.71		113	90-110		
Sodium	39	1	mg/L	35.71		110	90-110		
Magnesium	41.6	0.1	mg/L	35.71		117	90-110		
<b>LCS (BEH0825-BS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	37	1	mg/L	35.71		103	90-110		
Potassium	37.8	0.500	mg/L	35.71		106	90-110		
Calcium	38.9	0.1	mg/L	35.71		109	90-110		
Magnesium	38.9	0.1	mg/L	35.71		109	90-110		
<b>Duplicate (BEH0825-DUP1)</b>									
<b>Source: 23H1494-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	3.72	0.500	mg/L		3.92		5.34	15	
Calcium	21.2	0.1	mg/L		21.2		0.424	15	
Sodium	21	1	mg/L		22		3.96	15	
Magnesium	8.3	0.1	mg/L		8.2		0.535	15	
<b>Matrix Spike (BEH0825-MS1)</b>									
<b>Source: 23H1494-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	60.3	0.1	mg/L	35.71	21.2	109	90-110		
Sodium	61	1	mg/L	35.71	22	111	90-110		
Potassium	43.1	0.500	mg/L	35.71	3.92	110	90-110		
Magnesium	47.1	0.1	mg/L	35.71	8.2	109	90-110		
<b>Matrix Spike (BEH0825-MS2)</b>									
<b>Source: 23H1496-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	123	1	mg/L	35.71	83	111	90-110		
Potassium	47.7	0.500	mg/L	35.71	5.28	119	90-110		
Calcium	187	0.1	mg/L	35.71	144	121	90-110		
Magnesium	82.5	0.1	mg/L	35.71	41.9	114	90-110		
<b>Reference (BEH0825-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	24.1		mg/L	21.90		110	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: BEH0825 (Continued)</b>									
<b>Reference (BEH0825-SRM2)</b>									
Sodium	88		mg/L	91.50		96.1	90-110		
<b>Reference (BEH0825-SRM3)</b>									
Calcium	50.3		mg/L	45.90		110	90-110		
Magnesium	39.0		mg/L	35.60		109	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: BEH0841</b>									
<b>Blank (BEH0841-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
pH	5.2	1.0	units						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
<b>Blank (BEH0841-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
pH	5.3	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0841-BLK3)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	5.4	1.0	units						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0841-DUP1)</b>									
Source: 23H1494-01 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Alkalinity as CaCO <sub>3</sub>	109	10.0	mg/L		107			2.19	10
pH	8.0	1.0	units		7.9			1.14	10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Electrical Conductivity	0.26	0.01	mmhos/cm		0.26			1.24	10
Electrical Conductivity umhos	260	10.0	umhos/cm		257			1.24	10
<b>Duplicate (BEH0841-DUP2)</b>									
Source: 23H1496-03 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Electrical Conductivity	1.47	0.01	mmhos/cm		1.45			1.05	10
pH	8.0	1.0	units		7.9			1.01	10
Alkalinity as CaCO <sub>3</sub>	470	10.0	mg/L		480			1.95	10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Electrical Conductivity umhos	1470	10.0	umhos/cm		1450			1.05	10
<b>Reference (BEH0841-SRM1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0841 (Continued)</b>									
<b>Reference (BEH0841-SRM1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO <sub>3</sub>	39.8		mg/L	40.60	98.1	90-110			
Electrical Conductivity	522		umhos/cm	538.0	97.1	90-110			
<b>Reference (BEH0841-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO <sub>3</sub>	39.8		mg/L	40.60	98.1	90-110			
Electrical Conductivity	529		umhos/cm	538.0	98.3	90-110			
<b>Reference (BEH0841-SRM3)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	550		umhos/cm	538.0	102	90-110			
Alkalinity as CaCO <sub>3</sub>	41.1		mg/L	40.60	101	90-110			
<b>Reference (BEH0841-SRM4)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEH0841-SRM5)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEH0841-SRM6)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	101	97.5-102.5			
<b>Reference (BEH0841-SRM7)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	5.9		units	5.820	101	28178-101.7:			

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0879</b>									
<b>Blank (BEH0879-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023				
<b>LCS (BEH0879-BS1)</b>									
Total Filterable Solids (TDS)	26.2	10.0	mg/L	2000	Prepared: 8/17/2023 Analyzed: 8/22/2023	1.31	0-200		
<b>Duplicate (BEH0879-DUP1)</b>									
Total Filterable Solids (TDS)	500	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	500		0.00	10
<b>Duplicate (BEH0879-DUP2)</b>									
Total Filterable Solids (TDS)	1510	10.0	mg/L	1560	Prepared: 8/17/2023 Analyzed: 8/22/2023			3.26	10
<b>Reference (BEH0879-SRM1)</b>									
Total Filterable Solids (TDS)	397		mg/L	325.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	122	90-110		
<b>Reference (BEH0879-SRM2)</b>									
Total Filterable Solids (TDS)	517		mg/L	495.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	104	90-110		

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0885</b>									
<b>Blank (BEH0885-BLK1)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0885-BLK2)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0885-BLK3)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/18/2023				
<b>LCS (BEH0885-BS1)</b>									
Chloride	5.0	0.2	mg/L	5.000	100	90-110			
<b>LCS (BEH0885-BS2)</b>									
Chloride	5.0	0.2	mg/L	5.000	99.5	90-110			
<b>Duplicate (BEH0885-DUP1)</b>									
Chloride	29.0	0.2	mg/L	28.9			0.304	10	
<b>Duplicate (BEH0885-DUP2)</b>									
Chloride	2.2	0.2	mg/L	2.2			0.413	10	
<b>Matrix Spike (BEH0885-MS1)</b>									
Chloride	32.9	0.2	mg/L	5.000	28.9	80.4	90-110		
<b>Matrix Spike (BEH0885-MS2)</b>									
Chloride	7.3	0.2	mg/L	5.000	2.2	102	90-110		
<b>Reference (BEH0885-SRM1)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			
<b>Reference (BEH0885-SRM2)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			
<b>Reference (BEH0885-SRM3)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Test

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:47

## **Quality Control (Continued)**

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08/16/23 09:52

23H1496

## 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

15874 | 08 JG

Purchase Order No: Bill To: Acct # Cons #

No. Samples: 9

No of Bottles:

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: IRRIGATION WELLS

 Copy of Chain  QA/QC Documents

Sampled By:

F&amp;R AG

**Water Type:**  Drinking Water  Wastewater  
 Water  Groundwater  Monitoring Well

Other:

**Analysis and Bottles Required: (Please indicate Analysis)**( ) DWW1: EC, NO<sub>3</sub>-N NH<sub>4</sub>-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other + TN

## Description of Samples

- 1 IFF IW #52
- 2 IFF IW #63
- 3 IFF IW #65
- 4 IFF IW #68
- 5 IFF IW #73
- 6 IFF IW #88
- 7 IFF IW #92
- 8 IFF IW #93
- 9 IFF IW #112
- 10 IFF IW #110

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N PURGE
8/15/23	0947	1.0	245m.v
	1401	-48	
	1406	-5.9	
	1415	-34	
	1115	-0.8	
	1044	-1.1	
	1626	-8.2	
	1652	-7.8	
	0921	0.4	

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1652	8/16/23
Second				
Third				
Fourth	SD	DLF	8/16/23 952	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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

Inventory Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

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



08/16/23 09:52

23H1496

<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 checked="" 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"/>					
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <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> <i>(Containers that go into the Lab)</i>										
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	c2	c2	c2	s2	c2	c2	c2	c2	c2
	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> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
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)									
	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:									
Other:										



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0309-01	IFF #16	Ag Water	Shannon	Irrigation Well	12/06/2023 7:30

Default Cooler      Temperature on Receipt °C: 3.4  
 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.

A handwritten signature in black ink that reads "Scott M. Tricland".

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

## Sample Results

**Sample: IFF #16  
23L0309-01 (Water)**

Sampled: 12/6/2023 7:30  
Sampled By: Shannon

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	<b>455</b>	mg/L	10.0	1		12/07/23 17:04	SM 2320 B		BEL0176
Calcium	<b>156</b>	mg/L	0.1	1		12/13/23 09:32	EPA 200.7		BEL0230
Chloride	<b>102</b>	mg/L	0.2	1	250	12/06/23 22:26	EPA 300.0		BEL0163
Carbonate as CaCO3	ND	mg/L	1	1		12/07/23 17:04	SM 2320 B		BEL0176
Electrical Conductivity	<b>0.19</b>	mmhos/cm	0.01	1		12/08/23 11:06	SM 2510 B		BEL0280
Electrical Conductivity umhos	<b>192</b>	umhos/cm	10.0	1		12/08/23 11:06	SM 2510 B		BEL0280
Bicarbonate as CaCO3	<b>455</b>	mg/L	5.00	1		12/07/23 17:04	SM 2320 B		BEL0176
Potassium	<b>5.82</b>	mg/L	0.500	1		12/13/23 09:32	EPA 200.7		BEL0230
Magnesium	<b>44.4</b>	mg/L	0.1	1		12/13/23 09:32	EPA 200.7		BEL0230
Sodium	<b>94</b>	mg/L	1	1		12/13/23 09:32	EPA 200.7		BEL0230
Ammonia (as N)	*	mg/L	0.00	1		12/07/23 09:31	Field		BEL0225
Nitrate Nitrogen as NO3N	<b>11.6</b>	mg/L	0.1	1	10	12/06/23 22:26	EPA 300.0		BEL0163
Hydroxide as CaCO3	ND	mg/L	1.00	1		12/07/23 17:04	SM 2320 B		BEL0176
pH	<b>7.7</b>	units	1.0	1		12/07/23 17:04	SM 4500-H+	H	BEL0176
Temperature	<b>25.0</b>	units	0.0	1		12/07/23 17:04	SM 4500-H+	H	BEL0176
Sulfate (SO4)	<b>69.9</b>	mg/L	0.5	1	250	12/06/23 22:26	EPA 300.0		BEL0163
Total Filterable Solids (TDS)	<b>770</b>	mg/L	10.0	1		12/07/23 15:55	SM 2540 C		BEL0175
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/08/23 10:15	SM 4500-NH3 C		BEL0214
<b>Total Nitrogen</b>	<b>12.1</b>	mg/L	1.00	1		12/08/23 10:15	SM 4500-NH3 C		BEL0214

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0163</b>									
<b>Blank (BEL0163-BLK1)</b>									
Prepared & Analyzed: 12/6/2023									
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
<b>LCS (BEL0163-BS1)</b>									
Prepared & Analyzed: 12/6/2023									
Chloride	4.8	0.2	mg/L	5.000	95.1	90-110			
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	99.6	90-110			
Sulfate (SO4)	4.4	0.5	mg/L	5.000	87.8	90-110			
<b>LCS (BEL0163-BS2)</b>									
Prepared & Analyzed: 12/7/2023									
Chloride	4.8	0.2	mg/L	5.000	96.4	90-110			
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	101	90-110			
Sulfate (SO4)	4.5	0.5	mg/L	5.000	89.2	90-110			
<b>Duplicate (BEL0163-DUP1)</b>									
Source: 23L0259-01									
Prepared & Analyzed: 12/6/2023									
Chloride	2.1	0.2	mg/L		2.1		0.141	10	
Nitrate Nitrogen as NO3N	1.3	0.1	mg/L		1.3		0.157	10	
Sulfate (SO4)	8.0	0.5	mg/L		8.0		0.224	10	
<b>Duplicate (BEL0163-DUP2)</b>									
Source: 23L0320-01									
Prepared & Analyzed: 12/7/2023									
Chloride	12.7	0.2	mg/L		12.7		0.418	10	
Nitrate Nitrogen as NO3N	2.2	0.1	mg/L		2.2		0.464	10	
Sulfate (SO4)	17.5	0.5	mg/L		17.4		0.636	10	
<b>Matrix Spike (BEL0163-MS1)</b>									
Source: 23L0259-01									
Prepared & Analyzed: 12/6/2023									
Chloride	7.4	0.2	mg/L	5.000	2.1	105	90-110		
Nitrate Nitrogen as NO3N	6.5	0.1	mg/L	5.000	1.3	105	90-110		
Sulfate (SO4)	13.3	0.5	mg/L	5.000	8.0	105	90-110		
<b>Matrix Spike (BEL0163-MS2)</b>									
Source: 23L0320-01									
Prepared & Analyzed: 12/7/2023									
Chloride	17.5	0.2	mg/L	5.000	12.7	97.4	90-110		
Nitrate Nitrogen as NO3N	7.4	0.1	mg/L	5.000	2.2	104	90-110		
Sulfate (SO4)	22.4	0.5	mg/L	5.000	17.4	99.3	90-110		
<b>Reference (BEL0163-SRM1)</b>									
Prepared & Analyzed: 12/6/2023									
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)	9.8		mg/L	10.00		98.4	90-110		
<b>Reference (BEL0163-SRM2)</b>									
Prepared & Analyzed: 12/6/2023									
Chloride	12.8		mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	9.8		mg/L	10.00		98.5	90-110		

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Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

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

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

***Batch: BEL0163 (Continued)***

**Reference (BEL0163-SRM3)**

Chloride	12.8	mg/L	12.50	103	90-110
Nitrate Nitrogen as NO <sub>3</sub> N	10.2	mg/L	10.00	102	90-110
Sulfate (SO <sub>4</sub> )	9.9	mg/L	10.00	98.7	90-110

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0175</b>									
<b>Blank (BEL0175-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 12/6/2023 Analyzed: 12/7/2023				
<b>LCS (BEL0175-BS1)</b>									
Total Filterable Solids (TDS)	25.0	10.0	mg/L	2000	Prepared: 12/6/2023 Analyzed: 12/7/2023	1.25	0-200		
<b>Duplicate (BEL0175-DUP1)</b>									
Total Filterable Solids (TDS)	1350	10.0	mg/L		Prepared: 12/6/2023 Analyzed: 12/7/2023	1350		0.00	10
<b>Duplicate (BEL0175-DUP2)</b>									
Total Filterable Solids (TDS)	390	10.0	mg/L	370	Prepared: 12/6/2023 Analyzed: 12/7/2023			5.26	10
<b>Reference (BEL0175-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L	325.0	Prepared: 12/6/2023 Analyzed: 12/7/2023	99.5	90-110		

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0176</b>									
<b>Blank (BEL0176-BLK1)</b>									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
pH	5.2	1.0	units						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Temperature	25.0	0.0	units						
Prepared & Analyzed: 12/7/2023									
<b>Blank (BEL0176-BLK2)</b>									
pH	4.4	1.0	units						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Temperature	25.0	0.0	units						
Prepared & Analyzed: 12/7/2023									
<b>Blank (BEL0176-BLK3)</b>									
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
pH	5.5	1.0	units						
Temperature	25.0	0.0	units						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Prepared & Analyzed: 12/7/2023									
<b>Duplicate (BEL0176-DUP1)</b>									
		<b>Source: 23L0258-06</b>							
pH	7.8	1.0	units		7.7			0.773	10
Alkalinity as CaCO <sub>3</sub>	152	10.0	mg/L		143			6.29	10
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Prepared & Analyzed: 12/7/2023									
<b>Duplicate (BEL0176-DUP2)</b>									
		<b>Source: 23L0309-01</b>							
pH	7.7	1.0	units		7.7			0.130	10
Alkalinity as CaCO <sub>3</sub>	436	10.0	mg/L		455			4.35	10
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Electrical Conductivity	0.40	0.01	mmhos/cm		0.19			70.0	10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Electrical Conductivity umhos	398	10.0	umhos/cm		192			70.0	10
Prepared & Analyzed: 12/7/2023									
<b>Reference (BEL0176-SRM1)</b>									
Alkalinity as CaCO <sub>3</sub>	127		mg/L		128.0		99.4	90-110	
Prepared & Analyzed: 12/7/2023									
<b>Reference (BEL0176-SRM2)</b>									
Alkalinity as CaCO <sub>3</sub>	129		mg/L		128.0		101	90-110	
Prepared & Analyzed: 12/7/2023									

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0176 (Continued)</b>									
<b>Reference (BEL0176-SRM3)</b>									
Alkalinity as CaCO <sub>3</sub>	124		mg/L		128.0	97.0	90-110		
<b>Reference (BEL0176-SRM4)</b>									
pH	4.0		units		4.000	99.5	97.5-102.5		
<b>Reference (BEL0176-SRM5)</b>									
pH	4.0		units		4.000	100	97.5-102.5		
<b>Reference (BEL0176-SRM6)</b>									
pH	3.9		units		4.000	98.2	97.5-102.5		
<b>Reference (BEL0176-SRM7)</b>									
pH	7.5		units		7.520	99.7	67021-101.3		

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0214</b>									
<b>Blank (BEL0214-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.00             mg/L									
Total Nitrogen									
ND                  1.00             mg/L									
<b>Blank (BEL0214-BLK3)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.00             mg/L									
Total Nitrogen									
ND                  1.00             mg/L									
<b>LCS (BEL0214-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.65              1.00             mg/L									
5.709            99.0         90-110									
<b>LCS (BEL0214-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.92              1.00             mg/L									
5.709            104         90-110									
<b>Duplicate (BEL0214-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                  1.40             mg/L									
ND                 10									
<b>Duplicate (BEL0214-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total									
14.4              1.40             mg/L									
13.8              4.29         10									
<b>Matrix Spike (BEL0214-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
8.47              1.40             mg/L									
7.992            ND         106         90-110									
<b>Matrix Spike (BEL0214-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
22.5              1.40             mg/L									
7.992            13.8         110         90-110									
<b>Reference (BEL0214-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total									
24.0              mg/L									
23.80            101         90-110									

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Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0230</b>									
<b>Blank (BEL0230-BLK1)</b>									
Prepared: 12/7/2023 Analyzed: 12/13/2023									
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEL0230-BLK2)</b>									
Prepared: 12/7/2023 Analyzed: 12/13/2023									
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEL0230-BS1)</b>									
Prepared: 12/7/2023 Analyzed: 12/13/2023									
Potassium	36.2	0.500	mg/L	35.71	101	90-110			
Sodium	38	1	mg/L	35.71	107	90-110			
Calcium	37.4	0.1	mg/L	35.71	105	90-110			
Magnesium	37.8	0.1	mg/L	35.71	106	90-110			
<b>LCS (BEL0230-BS2)</b>									
Prepared: 12/7/2023 Analyzed: 12/13/2023									
Sodium	38	1	mg/L	35.71	106	90-110			
Calcium	37.1	0.1	mg/L	35.71	104	90-110			
Potassium	36.0	0.500	mg/L	35.71	101	90-110			
Magnesium	37.7	0.1	mg/L	35.71	105	90-110			
<b>Duplicate (BEL0230-DUP1)</b>									
<b>Source: 23L0309-01</b> Prepared: 12/7/2023 Analyzed: 12/13/2023									
Potassium	5.20	0.500	mg/L	5.82			11.3	15	
Sodium	91	1	mg/L	94			3.85	15	
Calcium	141	0.1	mg/L	156			9.83	15	
Magnesium	41.5	0.1	mg/L	44.4			6.78	15	
<b>Matrix Spike (BEL0230-MS1)</b>									
<b>Source: 23L0309-01</b> Prepared: 12/12/2023 Analyzed: 12/13/2023									
Calcium	171	0.1	mg/L	35.71	156	43.7	90-110		
Potassium	41.5	0.500	mg/L	35.71	5.82	99.9	90-110		
Sodium	122	1	mg/L	35.71	94	79.6	90-110		
Magnesium	75.6	0.1	mg/L	35.71	44.4	87.5	90-110		
<b>Matrix Spike (BEL0230-MS2)</b>									
<b>Source: 23L0447-01</b> Prepared: 12/7/2023 Analyzed: 12/13/2023									
Sodium	69	1	mg/L	35.71	34	99.9	90-110		
Calcium	133	0.1	mg/L	35.71	100	91.0	90-110		
Potassium	39.3	0.500	mg/L	35.71	2.72	102	90-110		
Magnesium	61.6	0.1	mg/L	35.71	25.2	102	90-110		
<b>Reference (BEL0230-SRM2)</b>									
Prepared: 12/7/2023 Analyzed: 12/13/2023									
Potassium	21.6		mg/L	21.90	98.6	90-110			

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0230 (Continued)</b>									
<b>Reference (BEL0230-SRM2)</b>									
Sodium	96		mg/L	91.50		105	90-110		
<b>Reference (BEL0230-SRM3)</b>									
Calcium	42.0		mg/L	45.90		91.4	90-110		
Magnesium	33.0		mg/L	35.60		92.6	90-110		

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 12/06/2023 13:22  
Reported: 12/18/2023 16:03

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0280</b>									
<b>Blank (BEL0280-BLK1)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm			Prepared & Analyzed: 12/8/2023			
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEL0280-BLK2)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm			Prepared & Analyzed: 12/8/2023			
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEL0280-DUP1)</b>									
		<b>Source: 23L0307-01</b>				Prepared & Analyzed: 12/8/2023			
Electrical Conductivity	0.66	0.01	mmhos/cm		0.66		0.759	10	
Electrical Conductivity umhos	662	10.0	umhos/cm		657		0.759	10	
<b>Reference (BEL0280-SRM1)</b>									
Electrical Conductivity	418		umhos/cm	426.0	98.2	90-110			
<b>Reference (BEL0280-SRM2)</b>									
Electrical Conductivity	1000		umhos/cm	1000	100	90-110			
Electrical Conductivity umhos	1000		umhos/cm	1000	100	90-110			
<b>Reference (BEL0280-SRM3)</b>									
Electrical Conductivity	1010		umhos/cm	1000	101	90-110			
Electrical Conductivity umhos	1010		umhos/cm	1000	101	90-110			

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12/06/23 13:22

23L0309

pH Strips

Lot: 10BDH4501 Exp: Jan 2025

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

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

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

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

Type of Container(s) Received	Sample Number									
	1	2	3	4	5	6	7	8	9	10
<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	1								
	* pH Value	L2								
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic	1								
	1 L unpreserved (BOD) (Purple) Plastic									
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									

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

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

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	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:									
	Other:									



Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1484-01	TID Reservoir #12	Ag Water	F & R Ag	Reservoirs	08/15/2023 10:02
23H1484-02	TID Reservoir #97	Ag Water	F & R Ag	Reservoirs	08/15/2023 15:22
23H1484-03	TID Reservoir #103	Ag Water	F & R Ag	Reservoirs	08/15/2023 13:37
23H1484-04	TID Reservoir Thurber/#95	Ag Water	F & R Ag	Reservoirs	08/15/2023 16:04
23H1484-05	TID Reservoir Siebert	Ag Water	F & R Ag	Reservoirs	08/15/2023 11:42

Default Cooler      Temperature on Receipt °C: -5.5  
 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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Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

### Sample Results

**Sample: TID Reservoir #12  
23H1484-01 (Water)**

Sampled: 8/15/2023 10:02

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	<b>1.05</b>	mmhos/cm	0.01	1		08/16/23 14:20	SM 2510 B		BEH0811
Electrical Conductivity umhos	<b>1050</b>	umhos/cm	10.0	1		08/16/23 14:20	SM 2510 B		BEH0811
Nitrate Nitrogen as NO3N	<b>4.3</b>	mg/L	0.1	1	10	08/17/23 04:22	EPA 300.0		BEH0805
pH	<b>7.5</b>	units	1.0	1		08/16/23 14:20	SM 4500-H+	H	BEH0811
Total Filterable Solids (TDS)	<b>630</b>	mg/L	10.0	1		08/21/23 16:04	SM 2540 C		BEH0876
Temperature	<b>25.0</b>	°C	0.0	1		08/16/23 14:20	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 13:33	SM 4500-NH3 C		BEH0940
<b>Total Nitrogen</b>	<b>4.62</b>	mg/L	1.00	1		08/21/23 13:33	SM 4500-NH3 C		BEH0940

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Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

**Sample: TID Reservoir #97  
23H1484-02 (Water)**

Sampled: 8/15/2023 15:22

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.25</b>	mmhos/cm	0.01	1		08/16/23 14:24	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>248</b>	umhos/cm	10.0	1		08/16/23 14:24	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>1.2</b>	mg/L	0.1	1	10	08/17/23 04:42	EPA 300.0		BEH0805
<b>pH</b>	<b>8.0</b>	units	1.0	1		08/16/23 14:24	SM 4500-H+		BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>162</b>	mg/L	10.0	1		08/21/23 16:04	SM 2540 C		BEH0876
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:24	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 13:34	SM 4500-NH3 C		BEH0940
<b>Total Nitrogen</b>	<b>1.81</b>	mg/L	1.00	1		08/21/23 13:34	SM 4500-NH3 C		BEH0940

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

**Sample: TID Reservoir #103  
23H1484-03 (Water)**

Sampled: 8/15/2023 13:37

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.16</b>	mmhos/cm	0.01	1		08/16/23 14:25	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>1160</b>	umhos/cm	10.0	1		08/16/23 14:25	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>13.8</b>	mg/L	0.1	1	10	08/17/23 05:02	EPA 300.0		BEH0805
<b>pH</b>	<b>7.5</b>	units	1.0	1		08/16/23 14:25	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>730</b>	mg/L	10.0	1		08/21/23 16:04	SM 2540 C		BEH0876
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:25	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 13:35	SM 4500-NH3 C		BEH0940
<b>Total Nitrogen</b>	<b>13.8</b>	mg/L	1.00	1		08/21/23 13:35	SM 4500-NH3 C		BEH0940

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

**Sample: TID Reservoir Thurber/#95  
23H1484-04 (Water)**

Sampled: 8/15/2023 16:04

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.39</b>	mmhos/cm	0.01	1		08/16/23 14:27	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>388</b>	umhos/cm	10.0	1		08/16/23 14:27	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>3.9</b>	mg/L	0.1	1	10	08/17/23 05:22	EPA 300.0		BEH0805
<b>pH</b>	<b>8.1</b>	units	1.0	1		08/16/23 14:27	SM 4500-H+		BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>290</b>	mg/L	10.0	1		08/21/23 16:04	SM 2540 C		BEH0876
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:27	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 13:37	SM 4500-NH3 C		BEH0940
<b>Total Nitrogen</b>	<b>3.87</b>	mg/L	1.00	1		08/21/23 13:37	SM 4500-NH3 C		BEH0940

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

### Sample Results (Continued)

**Sample: TID Reservoir Siebert  
23H1484-05 (Water)**

Sampled: 8/15/2023 11:42

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.08</b>	mmhos/cm	0.01	1		08/16/23 14:35	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>1080</b>	umhos/cm	10.0	1		08/16/23 14:35	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>13.3</b>	mg/L	0.1	1	10	08/17/23 05:41	EPA 300.0		BEH0805
<b>pH</b>	<b>7.4</b>	units	1.0	1		08/16/23 14:35	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>700</b>	mg/L	10.0	1		08/21/23 16:04	SM 2540 C		BEH0876
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:35	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 13:38	SM 4500-NH3 C		BEH0940
<b>Total Nitrogen</b>	<b>13.3</b>	mg/L	1.00	1		08/21/23 13:38	SM 4500-NH3 C		BEH0940

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0805</b>									
<b>Blank (BEH0805-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/16/2023				
<b>Blank (BEH0805-BLK2)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEH0805-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0805-BLK4)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>LCS (BEH0805-BS1)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L		5.000	97.4	90-110		
<b>LCS (BEH0805-BS2)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L		5.000	96.8	90-110		
<b>LCS (BEH0805-BS3)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L		5.000	97.6	90-110		
<b>Duplicate (BEH0805-DUP1)</b>				<b>Source: 23H1487-05</b>	Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	0.7	0.1	mg/L		0.7			0.953	10
<b>Duplicate (BEH0805-DUP2)</b>				<b>Source: 23H1489-01</b>	Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	14.9	0.1	mg/L		14.8			0.679	10
<b>Duplicate (BEH0805-DUP3)</b>				<b>Source: 23H1484-02</b>	Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	1.2	0.1	mg/L		1.2			0.343	10
<b>Matrix Spike (BEH0805-MS1)</b>				<b>Source: 23H1487-05</b>	Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L		5.000	0.7	98.9	90-110	
<b>Matrix Spike (BEH0805-MS2)</b>				<b>Source: 23H1489-01</b>	Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	19.9	0.1	mg/L		5.000	14.8	102	90-110	
<b>Matrix Spike (BEH0805-MS3)</b>				<b>Source: 23H1484-02</b>	Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	6.1	0.1	mg/L		5.000	1.2	99.2	90-110	
<b>Reference (BEH0805-SRM1)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	9.7		mg/L		10.00	97.3	90-110		
<b>Reference (BEH0805-SRM2)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L		10.00	97.9	90-110		

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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***Batch: BEH0805 (Continued)***

<b>Reference (BEH0805-SRM3)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.1	90-110		
<hr/>									
<b>Reference (BEH0805-SRM4)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.5	90-110		

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Received: 08/16/2023 9:52  
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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0811</b>									
<b>Blank (BEH0811-BLK1)</b>									
pH	4.7	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 (BEH0811-BLK2)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.4	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEH0811-BLK3)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.4	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0811-DUP1)</b>									
		<b>Source: 23H1469-02</b>							
Electrical Conductivity	1.24	0.01	mmhos/cm		1.24			0.370	10
pH	7.7	1.0	units		7.6			1.18	10
Electrical Conductivity umhos	1240	10.0	umhos/cm		1240			0.370	10
<b>Duplicate (BEH0811-DUP2)</b>									
		<b>Source: 23H1493-06</b>							
pH	7.8	1.0	units		7.8			0.128	10
Electrical Conductivity	0.02	0.01	mmhos/cm		0.02			2.58	10
Electrical Conductivity umhos	23.0	10.0	umhos/cm		23.6			2.58	10
<b>Reference (BEH0811-SRM1)</b>									
Electrical Conductivity	505		umhos/cm		538.0	93.8	90-110		
<b>Reference (BEH0811-SRM2)</b>									
pH	5.8		units		5.820	101	28178-101.7		
<b>Reference (BEH0811-SRM3)</b>									
Electrical Conductivity	945		umhos/cm		1000	94.5	90-110		
Electrical Conductivity umhos	945		umhos/cm		1000	94.5	90-110		
<b>Reference (BEH0811-SRM4)</b>									
Electrical Conductivity	941		umhos/cm		1000	94.1	90-110		
Electrical Conductivity umhos	941		umhos/cm		1000	94.1	90-110		
<b>Reference (BEH0811-SRM5)</b>									
Electrical Conductivity	949		umhos/cm		1000	94.9	90-110		

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Tri-Iest Dairy  
16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0811 (Continued)</b>									
<b>Reference (BEH0811-SRM5)</b>									
Electrical Conductivity umhos	949		umhos/cm	1000	94.9	94.9	90-110		
<b>Reference (BEH0811-SRM6)</b>									
pH	4.0		units	4.000	101	101	97.5-102.5		
<b>Reference (BEH0811-SRM7)</b>									
pH	4.0		units	4.000	101	101	97.5-102.5		
<b>Reference (BEH0811-SRM8)</b>									
pH	4.0		units	4.000	101	101	97.5-102.5		

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Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0876</b>									
<b>Blank (BEH0876-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023				
<b>LCS (BEH0876-BS1)</b>									
Total Filterable Solids (TDS)	30.0	10.0	mg/L	2000	Prepared: 8/17/2023 Analyzed: 8/21/2023	1.50	0-200		
<b>Duplicate (BEH0876-DUP1)</b>									
Total Filterable Solids (TDS)	950	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	880		7.65	10
<b>Duplicate (BEH0876-DUP2)</b>									
Total Filterable Solids (TDS)	620	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	610		1.63	10
<b>Reference (BEH0876-SRM1)</b>									
Total Filterable Solids (TDS)	327		mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	325.0	101	90-110	
<b>Reference (BEH0876-SRM2)</b>									
Total Filterable Solids (TDS)	480		mg/L		Prepared: 8/17/2023 Analyzed: 8/21/2023	495.0	97.0	90-110	

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16500 Ave 14  
Madera, CA 93637

Account# 00-0014117  
Account Manager: Ben Nydam  
Submitted By: Danny Iest

Received: 08/16/2023 9:52  
Reported: 08/22/2023 09:18

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0940</b>									
<b>Blank (BEH0940-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total									
Prepared: 8/18/2023 Analyzed: 8/21/2023									
ND 1.00 mg/L									
Total Nitrogen									
ND 1.00 mg/L									
<b>Blank (BEH0940-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total									
Prepared: 8/18/2023 Analyzed: 8/21/2023									
ND 1.00 mg/L									
Total Nitrogen									
ND 1.00 mg/L									
<b>LCS (BEH0940-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
Prepared: 8/18/2023 Analyzed: 8/21/2023									
5.84 1.00 mg/L 5.709 102 90-110									
<b>LCS (BEH0940-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
Prepared: 8/18/2023 Analyzed: 8/21/2023									
6.17 1.00 mg/L 5.709 108 90-110									
<b>Duplicate (BEH0940-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total									
Source: 23H1483-03 Prepared: 8/18/2023 Analyzed: 8/21/2023									
ND 1.40 mg/L ND 10									
<b>Duplicate (BEH0940-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total									
Source: 23H1484-02 Prepared: 8/18/2023 Analyzed: 8/21/2023									
ND 1.40 mg/L ND 10									
<b>Matrix Spike (BEH0940-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
Source: 23H1483-03 Prepared: 8/18/2023 Analyzed: 8/21/2023									
8.96 1.40 mg/L 7.992 ND 112 90-110									
<b>Matrix Spike (BEH0940-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
Source: 23H1484-02 Prepared: 8/18/2023 Analyzed: 8/21/2023									
7.96 1.40 mg/L 7.992 ND 99.6 90-110									
<b>Reference (BEH0940-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total									
24.0 mg/L 23.80 101 90-110									

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08/16/23 09:52

21H1484

## DELLAVALLE LABORATORY, INC.

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

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

Purchase Order No

Bill To:

TULLY

08

Acct #

Cons #

Results Need By

Name: Tri test Dairy

Address: 16500 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Danny Iest

PROJECT:

CROP: RESERVOIRS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

F&amp;R AG

No. Samples: 5 No of Bottles:

**Water Type:**  Drinking Water  Wastewater  
 Ag Water  Groundwater  Monitoring Well

Other:

**Analysis and Bottles Required: (Please indicate Analysis)**( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N
1	TID RESERVOIR #12	8/15/23	1002	-55	
2	TID RESERVOIR #97		1522	-11.9	
3	TID RESERVOIR #103		1337	-9.2	
4	TID RESERVOIR THURBER #95		1604	-8.1	
5	TID RESERVOIR SIEBERT		1142	-9.5	
6					
7					
8					
9					
10					

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1604	8/16/23
Second				
Third				
Fourth	SD	DLZ	8/16/23 9:52	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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

Inventory Information:	Shipping		
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No



08/16/23 09:52

23H1484

<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 checked="" 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"/>					
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <input type="checkbox"/> Received Preserved <input checked="" 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
<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>										
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> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
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:										
Other:										



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:29

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1493-01	IFF Reservoir #30	Ag Water	F & R Ag	Reservoir	08/15/2023 9:24
23H1493-02	IFF Reservoir #95	Ag Water	F & R Ag	Reservoir	08/15/2023 9:50
23H1493-03	IFF Reservoir #96	Ag Water	F & R Ag	Reservoir	08/15/2023 9:03
23H1493-04	IFF Reservoir #98	Ag Water	F & R Ag	Reservoir	08/15/2023 11:11
23H1493-05	IFF Reservoir #116	Ag Water	F & R Ag	Reservoir	08/15/2023 14:26
23H1493-06	IFF Reservoir East	Ag Water	F & R Ag	Reservoir	08/15/2023 11:25

Default Cooler      Temperature on Receipt °C: -2.4  
 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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## Sample Results

**Sample: IFF Reservoir #30  
23H1493-01 (Water)**

Sampled: 8/15/2023 9:24

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.77</b>	mmhos/cm	0.01	1		08/16/23 14:38	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>773</b>	umhos/cm	10.0	1		08/16/23 14:38	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>3.2</b>	mg/L	0.1	1	10	08/17/23 06:01	EPA 300.0		BEH0805
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/16/23 14:38	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>470</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:38	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 14:18	SM 4500-NH3 C		BEH0951
<b>Total Nitrogen</b>	<b>3.23</b>	mg/L	1.00	1		08/21/23 14:18	SM 4500-NH3 C		BEH0951

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**Sample: IFF Reservoir #95  
23H1493-02 (Water)**

Sampled: 8/15/2023 9:50

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.34</b>	mmhos/cm	0.01	1		08/16/23 14:40	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>1340</b>	umhos/cm	10.0	1		08/16/23 14:40	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>10.8</b>	mg/L	0.1	1	10	08/17/23 06:21	EPA 300.0		BEH0805
<b>pH</b>	<b>7.6</b>	units	1.0	1		08/16/23 14:40	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>790</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:40	SM 2510 B		BEH0811
<b>Kjeldahl Nitrogen (TKN), Total</b>	<b>1.57</b>	mg/L	1.00	1		08/21/23 14:20	SM 4500-NH3 C		BEH0951
<b>Total Nitrogen</b>	<b>12.4</b>	mg/L	1.00	1		08/21/23 14:20	SM 4500-NH3 C		BEH0951

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Received: 08/16/2023 9:52  
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**Sample: IFF Reservoir #96  
23H1493-03 (Water)**

Sampled: 8/15/2023 9:03

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.59</b>	mmhos/cm	0.01	1		08/16/23 14:41	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>595</b>	umhos/cm	10.0	1		08/16/23 14:41	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>5.3</b>	mg/L	0.1	1	10	08/17/23 06:40	EPA 300.0		BEH0805
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/16/23 14:41	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>390</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:41	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 14:21	SM 4500-NH3 C		BEH0951
<b>Total Nitrogen</b>	<b>5.33</b>	mg/L	1.00	1		08/21/23 14:21	SM 4500-NH3 C		BEH0951

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**Sample: IFF Reservoir #98  
23H1493-04 (Water)**

Sampled: 8/15/2023 11:11

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.66</b>	mmhos/cm	0.01	1		08/16/23 14:42	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>662</b>	umhos/cm	10.0	1		08/16/23 14:42	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>4.6</b>	mg/L	0.1	1	10	08/17/23 07:00	EPA 300.0		BEH0805
<b>pH</b>	<b>7.7</b>	units	1.0	1		08/16/23 14:42	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>395</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:42	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 14:23	SM 4500-NH3 C		BEH0951
<b>Total Nitrogen</b>	<b>4.77</b>	mg/L	1.00	1		08/21/23 14:23	SM 4500-NH3 C		BEH0951

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:29

**Sample: IFF Reservoir #116  
23H1493-05 (Water)**

Sampled: 8/15/2023 14:26

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.50</b>	mmhos/cm	0.01	1		08/16/23 14:44	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>501</b>	umhos/cm	10.0	1		08/16/23 14:44	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>3.6</b>	mg/L	0.1	1	10	08/17/23 07:20	EPA 300.0		BEH0805
<b>pH</b>	<b>8.2</b>	units	1.0	1		08/16/23 14:44	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>295</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:44	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 14:24	SM 4500-NH3 C		BEH0951
<b>Total Nitrogen</b>	<b>4.11</b>	mg/L	1.00	1		08/21/23 14:24	SM 4500-NH3 C		BEH0951

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Submitted By: Richard Iest

Received: 08/16/2023 9:52  
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**Sample: IFF Reservoir East  
23H1493-06 (Water)**

Sampled: 8/15/2023 11:25

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/16/23 14:45	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>23.6</b>	umhos/cm	10.0	1		08/16/23 14:45	SM 2510 B		BEH0811
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/16/23 19:40	EPA 300.0		BEH0806
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/16/23 14:45	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>21.0</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:45	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/21/23 14:25	SM 4500-NH3 C		BEH0951
Total Nitrogen	ND	mg/L	1.00	1		08/21/23 14:25	SM 4500-NH3 C		BEH0951

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Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:29

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0805</b>									
<b>Blank (BEH0805-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/16/2023				
<b>Blank (BEH0805-BLK2)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEH0805-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0805-BLK4)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>LCS (BEH0805-BS1)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	97.4	90-110			
<b>LCS (BEH0805-BS2)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	96.8	90-110			
<b>LCS (BEH0805-BS3)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	97.6	90-110			
<b>Duplicate (BEH0805-DUP1)</b>		<b>Source: 23H1487-05</b>			Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	0.7	0.1	mg/L	0.7			0.953	10	
<b>Duplicate (BEH0805-DUP2)</b>		<b>Source: 23H1489-01</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	14.9	0.1	mg/L	14.8			0.679	10	
<b>Duplicate (BEH0805-DUP3)</b>		<b>Source: 23H1484-02</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	1.2	0.1	mg/L	1.2			0.343	10	
<b>Matrix Spike (BEH0805-MS1)</b>		<b>Source: 23H1487-05</b>			Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.7	98.9	90-110		
<b>Matrix Spike (BEH0805-MS2)</b>		<b>Source: 23H1489-01</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	19.9	0.1	mg/L	5.000	14.8	102	90-110		
<b>Matrix Spike (BEH0805-MS3)</b>		<b>Source: 23H1484-02</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	6.1	0.1	mg/L	5.000	1.2	99.2	90-110		
<b>Reference (BEH0805-SRM1)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00	97.3	90-110			
<b>Reference (BEH0805-SRM2)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00	97.9	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: BEH0805 (Continued)***

<b>Reference (BEH0805-SRM3)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.1	90-110		
<hr/>									
<b>Reference (BEH0805-SRM4)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.5	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: BEH0806</b>									
<b>Blank (BEH0806-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/16/2023				
<b>Blank (BEH0806-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/16/2023				
<b>Blank (BEH0806-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0806-BLK4)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>LCS (BEH0806-BS1)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	102	90-110			
<b>LCS (BEH0806-BS2)</b>									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	101	90-110			
<b>LCS (BEH0806-BS3)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	102	90-110			
<b>Duplicate (BEH0806-DUP1)</b>									
Nitrate Nitrogen as NO3N	1.7	0.1	mg/L	1.7			1.08	10	
<b>Duplicate (BEH0806-DUP2)</b>									
Nitrate Nitrogen as NO3N	2.4	0.1	mg/L	2.4			0.451	10	
<b>Duplicate (BEH0806-DUP3)</b>									
Nitrate Nitrogen as NO3N	1.1	0.1	mg/L	1.1			0.371	10	
<b>Matrix Spike (BEH0806-MS1)</b>									
Nitrate Nitrogen as NO3N	6.9	0.1	mg/L	5.000	1.7	105	90-110		
<b>Matrix Spike (BEH0806-MS2)</b>									
Nitrate Nitrogen as NO3N	7.6	0.1	mg/L	5.000	2.4	104	90-110		
<b>Matrix Spike (BEH0806-MS3)</b>									
Nitrate Nitrogen as NO3N	6.3	0.1	mg/L	5.000	1.1	104	90-110		
<b>Reference (BEH0806-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			
<b>Reference (BEH0806-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00	102	90-110			

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:29

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

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

***Batch: BEH0806 (Continued)***

<b>Reference (BEH0806-SRM3)</b> Nitrate Nitrogen as NO <sub>3</sub> N	10.2	mg/L	10.00	Prepared & Analyzed: 8/17/2023	102	90-110
<b>Reference (BEH0806-SRM4)</b> Nitrate Nitrogen as NO <sub>3</sub> N	10.3	mg/L	10.00	Prepared & Analyzed: 8/17/2023	103	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: BEH0811</b>									
<b>Blank (BEH0811-BLK1)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	4.7	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0811-BLK2)</b>									
Prepared & Analyzed: 8/16/2023									
pH	7.4	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 (BEH0811-BLK3)</b>									
Prepared & Analyzed: 8/16/2023									
pH	7.4	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0811-DUP1)</b>									
Source: 23H1469-02 Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	1.24	0.01	mmhos/cm		1.24		0.370	10	
pH	7.7	1.0	units		7.6		1.18	10	
Electrical Conductivity umhos	1240	10.0	umhos/cm		1240		0.370	10	
<b>Duplicate (BEH0811-DUP2)</b>									
Source: 23H1493-06 Prepared & Analyzed: 8/16/2023									
pH	7.8	1.0	units		7.8		0.128	10	
Electrical Conductivity	0.02	0.01	mmhos/cm		0.02		2.58	10	
Electrical Conductivity umhos	23.0	10.0	umhos/cm		23.6		2.58	10	
<b>Reference (BEH0811-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	505		umhos/cm		538.0	93.8	90-110		
<b>Reference (BEH0811-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
pH	5.8		units		5.820	101	28178-101.7		
<b>Reference (BEH0811-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 (BEH0811-SRM4)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	941		umhos/cm		1000	94.1	90-110		
Electrical Conductivity umhos	941		umhos/cm		1000	94.1	90-110		
<b>Reference (BEH0811-SRM5)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	949		umhos/cm		1000	94.9	90-110		

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Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:29

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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**Batch: BEH0811 (Continued)**

**Reference (BEH0811-SRM5)**

Electrical Conductivity umhos	949	umhos/cm	1000	94.9	90-110
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**Reference (BEH0811-SRM6)**

pH	4.0	units	4.000	101	97.5-102.5
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**Reference (BEH0811-SRM7)**

pH	4.0	units	4.000	101	97.5-102.5
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**Reference (BEH0811-SRM8)**

pH	4.0	units	4.000	101	97.5-102.5
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Iest Family Farms  
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Account# 00-0015874  
Account Manager: Ben Nydam  
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Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:29

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0878</b>									
<b>Blank (BEH0878-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023				
<b>LCS (BEH0878-BS1)</b>									
Total Filterable Solids (TDS)	15.0	10.0	mg/L	2000	Prepared: 8/17/2023 Analyzed: 8/22/2023	0.750	0-200		
<b>Duplicate (BEH0878-DUP1)</b>									
Total Filterable Solids (TDS)	720	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	740		2.74	10
<b>Duplicate (BEH0878-DUP2)</b>									
Total Filterable Solids (TDS)	295	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	295		0.00	10
<b>Reference (BEH0878-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L	325.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	99.5	90-110		
<b>Reference (BEH0878-SRM2)</b>									
Total Filterable Solids (TDS)	487		mg/L	495.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	98.3	90-110		

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Test Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:29

## **Quality Control (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0951</b>									
<b>Blank (BEH0951-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>Blank (BEH0951-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
<b>LCS (BEH0951-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total	5.90	1.00	mg/L	5.709		103	90-110		
<b>LCS (BEH0951-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total	5.89	1.00	mg/L	5.709		103	90-110		
<b>Duplicate (BEH0951-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
<b>Duplicate (BEH0951-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
<b>Matrix Spike (BEH0951-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total	8.09	1.40	mg/L	7.992	ND	101	90-110		
<b>Matrix Spike (BEH0951-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total	8.10	1.40	mg/L	7.992	ND	101	90-110		
<b>Reference (BEH0951-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total	22.2		mg/L	23.80		93.2	90-110		

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08/16/23 09:52

23H1493

Purchase Order No

Bill To: 15874 | 08

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: RESERVOIR

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

F&amp;R Ag

## Description of Samples

- 1 IFF RESERVOIR #30
- 2 IFF RESERVOIR #95
- 3 IFF RESERVOIR #96
- 4 IFF RESERVOIR #98
- 5 IFF RESERVOIR #116
- 6 IFF RESERVOIR EAST
- 7
- 8
- 9
- 10

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N
8/15/23	0924	-2.4	
	0950	-1.2	
	0903	0.8	
	1111	6.6	
	1426	-9.9	
	1125	-6.3	
			IR Thermometer SN: 200560723
			Correction Factor: 0°C
			Calibration Due: 9/26/2023
			Location: Laboratory

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1426	8/16/23
Second				
Third				
Fourth	50	DLR	8/16/23 952	

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

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

Inventory Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No



08/16/23 09:52

23H1493

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

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

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

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

Type of Container(s) Received	Sample Number									
	1	2	3	4	5	6	7	8	9	10
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
(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	c2	c2	c2	c2	c2	c2			
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic	1	1	1	1	1	1			
	1 L unpreserved (BOD) (Purple) Plastic									
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									

pH Strips  
Lot: 10BDH4501 Exp: Jan 2025

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

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

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	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:									
	Other:									



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:57

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1497-01	Mid Canal	Ag Water	F & R Ag	Canal/Surface Water	08/15/2023 11:21
23H1497-02	Fresno River Water	Ag Water	F & R Ag	Canal/Surface Water	08/15/2023 15:34
23H1497-03	FID Canal	Ag Water	F & R Ag	Canal/Surface Water	08/15/2023 17:15
23H1497-04	CWD Canal	Ag Water	F & R Ag	Canal/Surface Water	08/15/2023 16:32

Default Cooler      Temperature on Receipt °C: 2.3  
 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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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:57

### Sample Results

**Sample: Mid Canal**  
**23H1497-01 (Water)**

Sampled: 8/15/2023 11:21  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/16/23 14:47	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>23.4</b>	umhos/cm	10.0	1		08/16/23 14:47	SM 2510 B		BEH0811
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/17/23 01:57	EPA 300.0		BEH0798
<b>pH</b>	<b>7.6</b>	units	1.0	1		08/16/23 14:47	SM 4500-H+	H	BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>19.5</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:47	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:56	SM 4500-NH3 C		BEH0988
Total Nitrogen	ND	mg/L	1.00	1		08/22/23 13:56	SM 4500-NH3 C		BEH0988

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Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:57

**Sample: Fresno River Water  
23H1497-02 (Water)**

Sampled: 8/15/2023 15:34

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.11</b>	mmhos/cm	0.01	1		08/16/23 14:48	SM 2510 B		BEH0811
<b>Electrical Conductivity umhos</b>	<b>107</b>	umhos/cm	10.0	1		08/16/23 14:48	SM 2510 B		BEH0811
<b>Nitrate Nitrogen as NO3N</b>	<b>0.1</b>	mg/L	0.1	1	10	08/17/23 02:17	EPA 300.0		BEH0798
<b>pH</b>	<b>8.9</b>	units	1.0	1		08/16/23 14:48	SM 4500-H+		BEH0811
<b>Total Filterable Solids (TDS)</b>	<b>74.0</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/16/23 14:48	SM 2510 B		BEH0811
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:58	SM 4500-NH3 C		BEH0988
Total Nitrogen	ND	mg/L	1.00	1		08/22/23 13:58	SM 4500-NH3 C		BEH0988

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:57

**Sample: FID Canal**  
**23H1497-03 (Water)**

Sampled: 8/15/2023 17:15

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:05	SM 2510 B		BEH0918
<b>Electrical Conductivity umhos</b>	<b>22.5</b>	umhos/cm	10.0	1		08/18/23 17:05	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/17/23 02:37	EPA 300.0		BEH0798
<b>pH</b>	<b>8.1</b>	units	1.0	1		08/21/23 16:04	SM 4500-H+	H	BEH0950
<b>Total Filterable Solids (TDS)</b>	<b>23.0</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/18/23 17:05	SM 2510 B		BEH0918
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 13:59	SM 4500-NH3 C		BEH0988
Total Nitrogen	ND	mg/L	1.00	1		08/22/23 13:59	SM 4500-NH3 C		BEH0988

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:57

**Sample: CWD Canal**  
**23H1497-04 (Water)**

Sampled: 8/15/2023 16:32

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:07	SM 2510 B		BEH0918
<b>Electrical Conductivity umhos</b>	<b>20.7</b>	umhos/cm	10.0	1		08/18/23 17:07	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/17/23 02:57	EPA 300.0		BEH0798
<b>pH</b>	<b>7.9</b>	units	1.0	1		08/21/23 16:05	SM 4500-H+	H	BEH0950
<b>Total Filterable Solids (TDS)</b>	<b>22.5</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		08/18/23 17:07	SM 2510 B		BEH0918
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/22/23 14:00	SM 4500-NH3 C		BEH0988
Total Nitrogen	ND	mg/L	1.00	1		08/22/23 14:00	SM 4500-NH3 C		BEH0988

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0798</b>									
<b>Blank (BEH0798-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/16/2023				
<b>Blank (BEH0798-BLK2)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEH0798-BLK3)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0798-BLK4)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/17/2023				
<b>LCS (BEH0798-BS1)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L		5.000	102	90-110		
<b>LCS (BEH0798-BS2)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L		5.000	102	90-110		
<b>LCS (BEH0798-BS3)</b>					Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L		5.000	103	90-110		
<b>Duplicate (BEH0798-DUP1)</b>		<b>Source: 23H1451-01</b>			Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	1.1	0.1	mg/L		1.1			0.524	10
<b>Duplicate (BEH0798-DUP2)</b>		<b>Source: 23H1466-03</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	7.3	0.1	mg/L		7.3			0.807	10
<b>Duplicate (BEH0798-DUP3)</b>		<b>Source: 23H1479-01</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			0.813	10
<b>Matrix Spike (BEH0798-MS1)</b>		<b>Source: 23H1451-01</b>			Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	6.2	0.1	mg/L		5.000	1.1	101	90-110	
<b>Matrix Spike (BEH0798-MS2)</b>		<b>Source: 23H1466-03</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	12.3	0.1	mg/L		5.000	7.3	99.6	90-110	
<b>Matrix Spike (BEH0798-MS3)</b>		<b>Source: 23H1479-01</b>			Prepared & Analyzed: 8/17/2023				
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L		5.000	0.2	98.7	90-110	
<b>Reference (BEH0798-SRM1)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	10.2		mg/L		10.00	102	90-110		
<b>Reference (BEH0798-SRM2)</b>					Prepared & Analyzed: 8/16/2023				
Nitrate Nitrogen as NO3N	10.1		mg/L		10.00	101	90-110		

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Account# 00-0015874  
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Submitted By: Richard Iest

Received: 08/16/2023 9:52  
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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: BEH0798 (Continued)***

<b>Reference (BEH0798-SRM3)</b> Nitrate Nitrogen as NO <sub>3</sub> N	10.2		mg/L	10.00	Prepared & Analyzed: 8/17/2023	102	90-110		
<hr/>									
<b>Reference (BEH0798-SRM4)</b> Nitrate Nitrogen as NO <sub>3</sub> N	10.2		mg/L	10.00	Prepared & Analyzed: 8/17/2023	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: BEH0811</b>									
<b>Blank (BEH0811-BLK1)</b>									
Prepared & Analyzed: 8/16/2023									
pH	4.7	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0811-BLK2)</b>									
Prepared & Analyzed: 8/16/2023									
pH	7.4	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 (BEH0811-BLK3)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.4	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Duplicate (BEH0811-DUP1)</b>									
Source: 23H1469-02 Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	1.24	0.01	mmhos/cm		1.24		0.370	10	
pH	7.7	1.0	units		7.6		1.18	10	
Electrical Conductivity umhos	1240	10.0	umhos/cm		1240		0.370	10	
<b>Duplicate (BEH0811-DUP2)</b>									
Source: 23H1493-06 Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	0.02	0.01	mmhos/cm		0.02		2.58	10	
pH	7.8	1.0	units		7.8		0.128	10	
Electrical Conductivity umhos	23.0	10.0	umhos/cm		23.6		2.58	10	
<b>Reference (BEH0811-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	505		umhos/cm		538.0	93.8	90-110		
<b>Reference (BEH0811-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
pH	5.8		units		5.820	101	28178-101.7		
<b>Reference (BEH0811-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 (BEH0811-SRM4)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	941		umhos/cm		1000	94.1	90-110		
Electrical Conductivity umhos	941		umhos/cm		1000	94.1	90-110		
<b>Reference (BEH0811-SRM5)</b>									
Prepared & Analyzed: 8/16/2023									
Electrical Conductivity	949		umhos/cm		1000	94.9	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: BEH0811 (Continued)**

**Reference (BEH0811-SRM5)**

Electrical Conductivity umhos	949	umhos/cm	1000	94.9	90-110
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Prepared & Analyzed: 8/16/2023

**Reference (BEH0811-SRM6)**

pH	4.0	units	4.000	101	97.5-102.5
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Prepared & Analyzed: 8/16/2023

**Reference (BEH0811-SRM7)**

pH	4.0	units	4.000	101	97.5-102.5
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Prepared & Analyzed: 8/16/2023

**Reference (BEH0811-SRM8)**

pH	4.0	units	4.000	101	97.5-102.5
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Prepared & Analyzed: 8/16/2023

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0878</b>									
<b>Blank (BEH0878-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023				
<b>LCS (BEH0878-BS1)</b>									
Total Filterable Solids (TDS)	15.0	10.0	mg/L	2000	Prepared: 8/17/2023 Analyzed: 8/22/2023	0.750	0-200		
<b>Duplicate (BEH0878-DUP1)</b>									
Total Filterable Solids (TDS)	720	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	740		2.74	10
<b>Duplicate (BEH0878-DUP2)</b>									
Total Filterable Solids (TDS)	295	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	295		0.00	10
<b>Reference (BEH0878-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L	325.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	99.5	90-110		
<b>Reference (BEH0878-SRM2)</b>									
Total Filterable Solids (TDS)	487		mg/L	495.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	98.3	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: BEH0918</b>									
<b>Blank (BEH0918-BLK1)</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0918-BLK2)</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0918-BLK3)</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0918-DUP1)</b>									
<b>Source: 23H1497-03</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	0.02	0.01	mmhos/cm		0.02		9.30	10	
Electrical Conductivity umhos	20.5	10.0	umhos/cm		22.5		9.30	10	
<b>Duplicate (BEH0918-DUP2)</b>									
<b>Source: 23H1590-01</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	0.02	0.01	mmhos/cm		0.02		0.00	10	
Electrical Conductivity umhos	18.8	10.0	umhos/cm		18.8		0.00	10	
<b>Reference (BEH0918-SRM1)</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	511		umhos/cm	538.0		94.9	90-110		
<b>Reference (BEH0918-SRM3)</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	956		umhos/cm	1000		95.6	90-110		
Electrical Conductivity umhos	956		umhos/cm	1000		95.6	90-110		
<b>Reference (BEH0918-SRM4)</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	956		umhos/cm	1000		95.6	90-110		
Electrical Conductivity umhos	956		umhos/cm	1000		95.6	90-110		
<b>Reference (BEH0918-SRM5)</b>									
Prepared: 8/17/2023 Analyzed: 8/18/2023									
Electrical Conductivity	971		umhos/cm	1000		97.1	90-110		
Electrical Conductivity umhos	971		umhos/cm	1000		97.1	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: BEH0950</b>									
<b>Blank (BEH0950-BLK1)</b>									
pH	5.3	1.0	units		Prepared: 8/18/2023 Analyzed: 8/21/2023				
<b>Blank (BEH0950-BLK2)</b>					Prepared: 8/18/2023 Analyzed: 8/21/2023				
pH	7.6	1.0	units						
<b>Blank (BEH0950-BLK3)</b>									
pH	7.4	1.0	units		Prepared: 8/18/2023 Analyzed: 8/21/2023				
<b>Duplicate (BEH0950-DUP1)</b>		<b>Source: 23H1684-01</b>			Prepared: 8/18/2023 Analyzed: 8/21/2023				
pH	7.6	1.0	units		7.6			0.393	10
<b>Duplicate (BEH0950-DUP2)</b>		<b>Source: 23H1684-03</b>			Prepared: 8/18/2023 Analyzed: 8/21/2023				
pH	7.6	1.0	units		7.6			0.393	10
<b>Reference (BEH0950-SRM2)</b>					Prepared: 8/18/2023 Analyzed: 8/21/2023				
pH	5.8		units		5.820		99.8	28178-101.7:	
<b>Reference (BEH0950-SRM6)</b>					Prepared: 8/18/2023 Analyzed: 8/21/2023				
pH	4.0		units		4.000		100	97.5-102.5	
<b>Reference (BEH0950-SRM7)</b>					Prepared: 8/18/2023 Analyzed: 8/21/2023				
pH	4.0		units		4.000		100	97.5-102.5	
<b>Reference (BEH0950-SRM8)</b>					Prepared: 8/18/2023 Analyzed: 8/21/2023				
pH	4.0		units		4.000		100	97.5-102.5	

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0988</b>									
<b>Blank (BEH0988-BLK1)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                          1.00                          mg/L									
Total Nitrogen									
ND                          1.00                          mg/L									
<b>Blank (BEH0988-BLK2)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                          1.00                          mg/L									
Total Nitrogen									
ND                          1.00                          mg/L									
<b>Blank (BEH0988-BLK3)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                          1.00                          mg/L									
Total Nitrogen									
ND                          1.00                          mg/L									
<b>LCS (BEH0988-BS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.31                         1.00                          mg/L                          5.709                          93.0                          90-110									
<b>LCS (BEH0988-BS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
5.40                         1.00                          mg/L                          5.709                          94.6                          90-110									
<b>Duplicate (BEH0988-DUP1)</b>									
Kjeldahl Nitrogen (TKN), Total									
ND                          1.40                          mg/L                          ND                                  10									
<b>Duplicate (BEH0988-DUP2)</b>									
Kjeldahl Nitrogen (TKN), Total									
328                         7.00                          mg/L                          320                                  2.35                          10									
<b>Matrix Spike (BEH0988-MS1)</b>									
Kjeldahl Nitrogen (TKN), Total									
8.48                         1.40                          mg/L                          7.992                          ND                                  106                                  90-110									
<b>Matrix Spike (BEH0988-MS2)</b>									
Kjeldahl Nitrogen (TKN), Total									
342                         7.00                          mg/L                          19.98                          320                                  108                                  90-110									
<b>Reference (BEH0988-SRM1)</b>									
Kjeldahl Nitrogen (TKN), Total									
24.3                         mg/L                          23.80                          102                                  90-110									

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08/16/23 09:52

23H1497

15874

08

Purchase Order No

Bill To:

Acct #

Cons #

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: CANAL / SURFACE WATER

 Copy of Chain  QA/QC Documents

Sampled By:

F&amp;R AG

## Description of Samples

- 1 MID CANAL  
 2 FRESNO RIVER WATER  
 3 FID CANAL  
 4 CWD CANAL  
 5  
 6  
 7  
 8  
 9  
 10

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N
8/15/23	1121	-2.3	
?	1534	-8.9	
	1715	-8.1	
	1632	-9.5	

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1715	8/16/23
Second				
Third				
Fourth	SD	DLE	8/16/23 9:57	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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.

Inventory Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

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



08/16/23 09:52

23H1497

<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 checked="" 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"/>																																																																																																																																																																																																				
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b>					<input type="checkbox"/> Received Preserved																																																																																																																																																																																																				
<input checked="" 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>																																																																																																																																																																																																									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
	250 mL unpreserved (White) Plastic																																																																																																																																																																																																								
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	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	✓	✓	✓	✓																																																																																																																																																																																																				
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1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																																									
Special	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>																																																																																																																																																																																																									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
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VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																																																																																																																								
	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)																																																																																																																																																																																																								
Glass	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)										Special	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)										Cr <sup>VI</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										<b>Other:</b>										<b>Other:</b>									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																								
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	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
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Special	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)										Cr <sup>VI</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										<b>Other:</b>										<b>Other:</b>																																																																																
	1 L AG unpreserved (White)																																																																																																																																																																																																								
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Sulfide - 1 L AG or P NaOH + ZnAc																																																																																																																																																																																																									
Chlorite/Bromate - 250 mL AG with EDA																																																																																																																																																																																																									
HAA5 - 250mL AG Ammonium Chlorite																																																																																																																																																																																																									
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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1490-01	IFF Dom Office	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 10:41
23H1490-02	IFF Dom East Ranch	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 11:36
23H1490-03	IFF Dom Leon Ranch	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 16:31
23H1490-04	IFF Dom #66	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 14:18
23H1490-05	IFF Dom #69	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 14:23
23H1490-06	IFF Dom #74	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 14:44
23H1490-07	IFF Dom #76	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 14:47
23H1490-08	IFF Dom #120	Drinking Water	F & R Ag	Domestic Wells	08/15/2023 14:51

Default Cooler      Temperature on Receipt °C: -2.8  
 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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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

## Sample Results

**Sample: IFF Dom Office  
23H1490-01 (Water)**

Sampled: 8/15/2023 10:41  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>433</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
Calcium	<b>115</b>	mg/L	0.1	1		08/18/23 10:41	EPA 200.7		BEH0824
Chloride	<b>60.1</b>	mg/L	0.2	1	250	08/16/23 16:39	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
Electrical Conductivity	<b>1.14</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
Electrical Conductivity umhos	<b>1140</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
Bicarbonate as CaCO <sub>3</sub>	<b>433</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
Potassium	<b>6.85</b>	mg/L	0.500	1		08/18/23 10:41	EPA 200.7		BEH0824
Magnesium	<b>38.4</b>	mg/L	0.1	1		08/18/23 10:41	EPA 200.7		BEH0824
Sodium	<b>82</b>	mg/L	1	1		08/18/23 10:41	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 10:41	Field		BEH1423
Nitrate Nitrogen as NO <sub>3</sub> N	<b>16.9</b>	mg/L	0.1	1	10	08/16/23 16:39	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
pH	<b>7.6</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
Sulfate (SO <sub>4</sub> )	<b>62.7</b>	mg/L	0.5	1	250	08/16/23 16:39	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>750</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

**Sample: IFF Dom East Ranch  
23H1490-02 (Water)**

Sampled: 8/15/2023 11:36

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>269</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
Calcium	<b>73.1</b>	mg/L	0.1	1		08/18/23 10:42	EPA 200.7		BEH0824
Chloride	<b>35.2</b>	mg/L	0.2	1	250	08/16/23 16:59	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
Electrical Conductivity	<b>0.69</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
Electrical Conductivity umhos	<b>691</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
Bicarbonate as CaCO <sub>3</sub>	<b>269</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
Potassium	<b>5.69</b>	mg/L	0.500	1		08/18/23 10:42	EPA 200.7		BEH0824
Magnesium	<b>24.2</b>	mg/L	0.1	1		08/18/23 10:42	EPA 200.7		BEH0824
Sodium	<b>42</b>	mg/L	1	1		08/18/23 10:42	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 11:36	Field		BEH1423
Nitrate Nitrogen as NO <sub>3</sub> N	<b>8.0</b>	mg/L	0.1	1	10	08/16/23 16:59	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
pH	<b>7.7</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
Sulfate (SO <sub>4</sub> )	<b>31.4</b>	mg/L	0.5	1	250	08/16/23 16:59	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>453</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

**Sample: IFF Dom Leon Ranch  
23H1490-03 (Water)**

Sampled: 8/15/2023 16:31

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO<sub>3</sub></b>	<b>107</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
<b>Calcium</b>	<b>27.2</b>	mg/L	0.1	1		08/18/23 10:43	EPA 200.7		BEH0824
<b>Chloride</b>	<b>20.3</b>	mg/L	0.2	1	250	08/16/23 17:19	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
<b>Electrical Conductivity</b>	<b>0.28</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
<b>Electrical Conductivity umhos</b>	<b>284</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
<b>Bicarbonate as CaCO<sub>3</sub></b>	<b>107</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
<b>Potassium</b>	<b>4.73</b>	mg/L	0.500	1		08/18/23 10:43	EPA 200.7		BEH0824
<b>Magnesium</b>	<b>7.4</b>	mg/L	0.1	1		08/18/23 10:43	EPA 200.7		BEH0824
<b>Sodium</b>	<b>21</b>	mg/L	1	1		08/18/23 10:43	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 16:31	Field		BEH1423
<b>Nitrate Nitrogen as NO<sub>3</sub>N</b>	<b>1.7</b>	mg/L	0.1	1	10	08/16/23 17:19	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
<b>pH</b>	<b>7.5</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
<b>Sulfate (SO<sub>4</sub>)</b>	<b>5.8</b>	mg/L	0.5	1	250	08/16/23 17:19	EPA 300.0		BEH0806
<b>Total Filterable Solids (TDS)</b>	<b>218</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

**Sample: IFF Dom #66  
23H1490-04 (Water)**

Sampled: 8/15/2023 14:18

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>429</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
Calcium	<b>116</b>	mg/L	0.1	1		08/18/23 10:44	EPA 200.7		BEH0824
Chloride	<b>87.5</b>	mg/L	0.2	1	250	08/16/23 17:39	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
Electrical Conductivity	<b>1.19</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
Electrical Conductivity umhos	<b>1190</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
Bicarbonate as CaCO <sub>3</sub>	<b>429</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
Potassium	<b>5.52</b>	mg/L	0.500	1		08/18/23 10:44	EPA 200.7		BEH0824
Magnesium	<b>37.4</b>	mg/L	0.1	1		08/18/23 10:44	EPA 200.7		BEH0824
Sodium	<b>72</b>	mg/L	1	1		08/18/23 10:44	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:18	Field		BEH1423
Nitrate Nitrogen as NO <sub>3</sub> N	<b>17.1</b>	mg/L	0.1	1	10	08/16/23 17:39	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
pH	<b>7.6</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
Sulfate (SO <sub>4</sub> )	<b>51.7</b>	mg/L	0.5	1	250	08/16/23 17:39	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>780</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Sample Results (Continued)

**Sample: IFF Dom #69  
23H1490-05 (Water)**

Sampled: 8/15/2023 14:23

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>436</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
Calcium	<b>123</b>	mg/L	0.1	1		08/18/23 10:45	EPA 200.7		BEH0824
Chloride	<b>87.3</b>	mg/L	0.2	1	250	08/16/23 17:59	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
Electrical Conductivity	<b>1.19</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
Electrical Conductivity umhos	<b>1190</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
Bicarbonate as CaCO <sub>3</sub>	<b>436</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
Potassium	<b>6.10</b>	mg/L	0.500	1		08/18/23 10:45	EPA 200.7		BEH0824
Magnesium	<b>39.6</b>	mg/L	0.1	1		08/18/23 10:45	EPA 200.7		BEH0824
Sodium	<b>77</b>	mg/L	1	1		08/18/23 10:45	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:23	Field		BEH1423
Nitrate Nitrogen as NO <sub>3</sub> N	<b>17.0</b>	mg/L	0.1	1	10	08/16/23 17:59	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
pH	<b>7.7</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
Sulfate (SO <sub>4</sub> )	<b>51.5</b>	mg/L	0.5	1	250	08/16/23 17:59	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>780</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Sample Results (Continued)

**Sample: IFF Dom #74  
23H1490-06 (Water)**

Sampled: 8/15/2023 14:44

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>369</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
Calcium	<b>127</b>	mg/L	0.1	1		08/18/23 10:47	EPA 200.7		BEH0824
Chloride	<b>98.5</b>	mg/L	0.2	1	250	08/16/23 18:19	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
Electrical Conductivity	<b>1.15</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
Electrical Conductivity umhos	<b>1150</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
Bicarbonate as CaCO <sub>3</sub>	<b>369</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
Potassium	<b>5.22</b>	mg/L	0.500	1		08/18/23 10:47	EPA 200.7		BEH0824
Magnesium	<b>36.9</b>	mg/L	0.1	1		08/18/23 10:47	EPA 200.7		BEH0824
Sodium	<b>83</b>	mg/L	1	1		08/18/23 10:47	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:44	Field		BEH1423
Nitrate Nitrogen as NO <sub>3</sub> N	<b>23.5</b>	mg/L	0.1	1	10	08/16/23 18:19	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
pH	<b>8.0</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
Sulfate (SO <sub>4</sub> )	<b>36.5</b>	mg/L	0.5	1	250	08/16/23 18:19	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>740</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Sample Results (Continued)

**Sample: IFF Dom #76  
23H1490-07 (Water)**

Sampled: 8/15/2023 14:47

Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>160</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
Calcium	<b>90.2</b>	mg/L	0.1	1		08/18/23 10:48	EPA 200.7		BEH0824
Chloride	<b>251</b>	mg/L	0.2	1	250	08/17/23 19:24	EPA 300.0		BEH0885
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
Electrical Conductivity	<b>1.10</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
Electrical Conductivity umhos	<b>1100</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
Bicarbonate as CaCO <sub>3</sub>	<b>160</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
Potassium	<b>4.72</b>	mg/L	0.500	1		08/18/23 10:48	EPA 200.7		BEH0824
Magnesium	<b>29.6</b>	mg/L	0.1	1		08/18/23 10:48	EPA 200.7		BEH0824
Sodium	<b>79</b>	mg/L	1	1		08/18/23 10:48	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:47	Field		BEH1423
Nitrate Nitrogen as NO <sub>3</sub> N	<b>2.5</b>	mg/L	0.1	1	10	08/16/23 18:40	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
pH	<b>7.8</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
Sulfate (SO <sub>4</sub> )	<b>5.3</b>	mg/L	0.5	1	250	08/16/23 18:40	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>920</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

**Sample: IFF Dom #120  
23H1490-08 (Water)**

Sampled: 8/15/2023 14:51

Sampled By: F & R Ag

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>154</b>	mg/L	10.0	1		08/18/23 08:23	SM 2320 B		BEH0840
Calcium	<b>97.2</b>	mg/L	0.1	1		08/18/23 10:49	EPA 200.7		BEH0824
Chloride	<b>250</b>	mg/L	0.2	1	250	08/17/23 19:44	EPA 300.0		BEH0885
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:23	SM 2320 B		BEH0840
Electrical Conductivity	<b>1.09</b>	mmhos/cm	0.01	1		08/18/23 08:23	SM 2510 B		BEH0840
Electrical Conductivity umhos	<b>1090</b>	umhos/cm	10.0	1		08/18/23 08:23	SM 2510 B		BEH0840
Bicarbonate as CaCO <sub>3</sub>	<b>154</b>	mg/L	5.00	1		08/18/23 08:23	SM 2320 B		BEH0840
Potassium	<b>5.35</b>	mg/L	0.500	1		08/18/23 10:49	EPA 200.7		BEH0824
Magnesium	<b>31.9</b>	mg/L	0.1	1		08/18/23 10:49	EPA 200.7		BEH0824
Sodium	<b>86</b>	mg/L	1	1		08/18/23 10:49	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/15/23 14:51	Field		BEH1423
Nitrate Nitrogen as NO <sub>3</sub> N	<b>2.5</b>	mg/L	0.1	1	10	08/16/23 19:00	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:23	SM 2320 B		BEH0840
pH	<b>7.8</b>	units	1.0	1		08/18/23 08:23	SM 4500-H+	H	BEH0840
Sulfate (SO <sub>4</sub> )	<b>5.2</b>	mg/L	0.5	1	250	08/16/23 19:00	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>860</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Iest Family Farms  
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Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806</b>									
<b>Blank (BEH0806-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK4)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>LCS (BEH0806-BS1)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
98.8 90-110									
<b>LCS (BEH0806-BS2)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.0 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
97.9 90-110									
<b>LCS (BEH0806-BS3)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.8 0.5 mg/L									
99.5 90-110									
<b>Duplicate (BEH0806-DUP1)</b>									
<b>Source: 23H1490-03</b> Prepared & Analyzed: 8/16/2023									
Chloride 20.1 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 1.7 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 5.7 0.5 mg/L									
20.3 1.17 10									
<b>Duplicate (BEH0806-DUP2)</b>									
<b>Source: 23H1494-01</b> Prepared & Analyzed: 8/17/2023									
Chloride 6.7 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 2.4 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 15.5 0.5 mg/L									
6.6 0.420 10									
2.4 0.451 10									
15.5 0.0388 10									

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806 (Continued)</b>									
<b>Duplicate (BEH0806-DUP3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	19.0	0.2	mg/L		19.0			0.148	10
Nitrate Nitrogen as NO3N	1.1	0.1	mg/L		1.1			0.371	10
Sulfate (SO4)	2.8	0.5	mg/L		2.7			0.509	10
<b>Matrix Spike (BEH0806-MS1)</b>									
<b>Source: 23H1490-03</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	25.5	0.2	mg/L	5.000	20.3	104	90-110		
Nitrate Nitrogen as NO3N	6.9	0.1	mg/L	5.000	1.7	105	90-110		
Sulfate (SO4)	10.9	0.5	mg/L	5.000	5.8	103	90-110		
<b>Matrix Spike (BEH0806-MS2)</b>									
<b>Source: 23H1494-01</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	11.7	0.2	mg/L	5.000	6.6	102	90-110		
Nitrate Nitrogen as NO3N	7.6	0.1	mg/L	5.000	2.4	104	90-110		
Sulfate (SO4)	20.5	0.5	mg/L	5.000	15.5	102	90-110		
<b>Matrix Spike (BEH0806-MS3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	23.6	0.2	mg/L	5.000	19.0	93.3	90-110		
Nitrate Nitrogen as NO3N	6.3	0.1	mg/L	5.000	1.1	104	90-110		
Sulfate (SO4)	7.8	0.5	mg/L	5.000	2.7	102	90-110		
<b>Reference (BEH0806-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.7		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Sulfate (SO4)	9.9		mg/L	10.00		99.2	90-110		
<b>Reference (BEH0806-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
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 (BEH0806-SRM3)</b>									
Prepared & Analyzed: 8/17/2023									
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 (BEH0806-SRM4)</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.9		mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110		
Sulfate (SO4)	10.1		mg/L	10.00		101	90-110		

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Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0824</b>									
<b>Blank (BEH0824-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
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 (BEH0824-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
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 (BEH0824-BS1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	37	1	mg/L	35.71	103	90-110			
Potassium	37.2	0.500	mg/L	35.71	104	90-110			
Calcium	36.8	0.1	mg/L	35.71	103	90-110			
Magnesium	38.5	0.1	mg/L	35.71	108	90-110			
<b>LCS (BEH0824-BS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	34	1	mg/L	35.71	96.2	90-110			
Calcium	34.5	0.1	mg/L	35.71	96.5	90-110			
Potassium	33.9	0.500	mg/L	35.71	95.0	90-110			
Magnesium	36.2	0.1	mg/L	35.71	101	90-110			
<b>Duplicate (BEH0824-DUP1)</b>									
<b>Source: 23H1488-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	46.4	0.1	mg/L	46.8			0.794	15	
Potassium	2.78	0.500	mg/L	2.80			0.573	15	
Sodium	43	1	mg/L	44			1.62	15	
Magnesium	13.9	0.1	mg/L	14.1			1.43	15	
<b>Matrix Spike (BEH0824-MS1)</b>									
<b>Source: 23H1488-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	84.8	0.1	mg/L	35.71	46.8	107	90-110		
Sodium	80	1	mg/L	35.71	44	103	90-110		
Potassium	39.3	0.500	mg/L	35.71	2.80	102	90-110		
Magnesium	52.2	0.1	mg/L	35.71	14.1	107	90-110		
<b>Matrix Spike (BEH0824-MS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	94	1	mg/L	35.71	264	90-110			
Potassium	41.2	0.500	mg/L	35.71	115	90-110			
Calcium	120	0.1	mg/L	35.71	337	90-110			
Magnesium	65.5	0.1	mg/L	35.71	183	90-110			
<b>Reference (BEH0824-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	22.2		mg/L	21.90	101	90-110			

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0824 (Continued)</b>									
<b>Reference (BEH0824-SRM2)</b>									
Sodium	89		mg/L	91.50		97.5	90-110		
<b>Reference (BEH0824-SRM3)</b>									
Calcium	46.3		mg/L	45.90		101	90-110		
Magnesium	37.4		mg/L	35.60		105	90-110		

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0840</b>									
<b>Blank (BEH0840-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.1	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Blank (BEH0840-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.2	1.0	units						
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Blank (BEH0840-BLK3)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	5.5	1.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0840-DUP1)</b>									
Source: 23H1489-01 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	0.83	0.01	mmhos/cm		0.83			0.120	10
Carbonate as CaCO3	ND	1	mg/L		ND				10
Alkalinity as CaCO3	321	10.0	mg/L		318			0.783	10
pH	8.0	1.0	units		7.9			1.01	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
Electrical Conductivity umhos	830	10.0	umhos/cm		831			0.120	10
<b>Duplicate (BEH0840-DUP2)</b>									
Source: 23H1490-01 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
pH	7.8	1.0	units		7.6			1.30	10
Alkalinity as CaCO3	440	10.0	mg/L		433			1.40	10
Carbonate as CaCO3	ND	1	mg/L		ND				10
Electrical Conductivity	1.14	0.01	mmhos/cm		1.14			0.0526	10
Electrical Conductivity umhos	1140	10.0	umhos/cm		1140			0.0526	10
<b>Reference (BEH0840-SRM1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0840 (Continued)</b>									
<b>Reference (BEH0840-SRM1)</b>									
Alkalinity as CaCO <sub>3</sub> 40.1      mg/L      40.60      98.7      90-110									
Electrical Conductivity      511      umhos/cm      538.0      95.0      90-110									
<b>Reference (BEH0840-SRM2)</b>									
Alkalinity as CaCO <sub>3</sub> 39.7      mg/L      40.60      97.8      90-110									
Electrical Conductivity      522      umhos/cm      538.0      97.0      90-110									
<b>Reference (BEH0840-SRM3)</b>									
Electrical Conductivity      521      umhos/cm      538.0      96.8      90-110									
Alkalinity as CaCO <sub>3</sub> 39.6      mg/L      40.60      97.5      90-110									
<b>Reference (BEH0840-SRM4)</b>									
pH      4.0      units      4.000      100      97.5-102.5									
<b>Reference (BEH0840-SRM5)</b>									
pH      4.0      units      4.000      100      97.5-102.5									
<b>Reference (BEH0840-SRM6)</b>									
pH      4.0      units      4.000      100      97.5-102.5									
<b>Reference (BEH0840-SRM7)</b>									
pH      5.8      units      5.820      99.8      28178-101.7:									

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0878</b>									
<b>Blank (BEH0878-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023				
<b>LCS (BEH0878-BS1)</b>									
Total Filterable Solids (TDS)	15.0	10.0	mg/L	2000	Prepared: 8/17/2023 Analyzed: 8/22/2023	0.750	0-200		
<b>Duplicate (BEH0878-DUP1)</b>									
Total Filterable Solids (TDS)	720	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	740		2.74	10
<b>Duplicate (BEH0878-DUP2)</b>									
Total Filterable Solids (TDS)	295	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	295		0.00	10
<b>Reference (BEH0878-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L	325.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	99.5	90-110		
<b>Reference (BEH0878-SRM2)</b>									
Total Filterable Solids (TDS)	487		mg/L	495.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	98.3	90-110		

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 09/01/2023 11:18

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0885</b>									
<b>Blank (BEH0885-BLK1)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0885-BLK2)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/17/2023				
<b>Blank (BEH0885-BLK3)</b>									
Chloride	ND	0.2	mg/L		Prepared & Analyzed: 8/18/2023				
<b>LCS (BEH0885-BS1)</b>									
Chloride	5.0	0.2	mg/L	5.000	100	90-110			
<b>LCS (BEH0885-BS2)</b>									
Chloride	5.0	0.2	mg/L	5.000	99.5	90-110			
<b>Duplicate (BEH0885-DUP1)</b>									
Chloride	29.0	0.2	mg/L	28.9			0.304	10	
<b>Duplicate (BEH0885-DUP2)</b>									
Chloride	2.2	0.2	mg/L	2.2			0.413	10	
<b>Matrix Spike (BEH0885-MS1)</b>									
Chloride	32.9	0.2	mg/L	5.000	28.9	80.4	90-110		
<b>Matrix Spike (BEH0885-MS2)</b>									
Chloride	7.3	0.2	mg/L	5.000	2.2	102	90-110		
<b>Reference (BEH0885-SRM1)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			
<b>Reference (BEH0885-SRM2)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			
<b>Reference (BEH0885-SRM3)</b>									
Chloride	12.7		mg/L	12.50	102	90-110			

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08/16/23 09:52

23H1490

15874

08

JG

Purchase Order No

Bill To:

Acct #

Cons #

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: DOMESTIC WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

F&amp;R AG

## 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. Samples: 8

No of Bottles:

 Drinking Water

[ ] Wastewater

[ ] Ag Water

[ ] Groundwater

[ ] Monitoring Well

Other:

## Analysis and Bottles Required: (Please indicate Analysis)

( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

(L) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH <sub>4</sub> -N
1	IFF DOM OFFICE	8/15/23	1041	-2.8	PURPLE 230MIN
2	IFF DOM EAST RANCH		1136	-2.0	
3	IFF DOM LEON RANCH		1631	-8.3	
4	IFF DOM #66		1418	-9.0	
5	IFF DOM #69		1423	-1.7	
6	IFF DOM #74		1449	-9.3	
7	IFF DOM #76		1447	-1.0	
8	IFF DOM #120		1451	-7.1	
9	IFF DOM				
10					

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1631	8/16/23
Second				
Third				
Fourth	SD	DLT	8/16/23 952	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. It, 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:

Sampling hrs		Shipping	
Miles	\$	In	Out
Consulting			
Amt Paid	Rec By	Check #	Date

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

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



08/16/23 09:52

23H1490

<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					
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None					
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> were:					<input type="checkbox"/> Received Preserved <input checked="" 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	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									
Glass	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)									
Special	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)										
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:										



08/16/23 09:52

23H1490

15874

08

Purchase Order No

Bill To:

Acct #

Cons #

JG

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: DOMESTIC WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

F&amp;R AG

## 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. Samples: 8

No of Bottles: 8

 Drinking Water  Wastewater Ag Water  Groundwater  Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

 Other

## Description of Samples

- 1 NO3 U 16<sup>th</sup>  
IFF DOM OFFICE
- 2 NO2 IFF DOM EAST RANCH
- 1-7<sup>8</sup> IFF DOM LEON RANCH
- 17<sup>8</sup> IFF DOM #66
- 17<sup>8</sup> IFF DOM #69
- 23<sup>8</sup> IFF DOM #74
- 2-7 IFF DOM #76
- 2-5 IFF DOM #120
- 9 IFF DOM

Date Sampled	Time Sampled	Rec'd Temp °C	Field Temp °C
8/15/23	1041	-2.8	F&R AG 330 min
	1136	-2.0	
	1631	-8.3	
	1418	-9.0	
	1423	-1.7	
	1444	-9.3	
	1447	-1.0	
	1451	-7.1	

Lara 8/17/23 12:35 - left un for Alex R.

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1631	8/16/23
Second				
Third				
Fourth	SD	DLT	8/16/23 952	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

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



08/16/23 09:52

23H1490

<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 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 checked="" type="checkbox"/> Preserved Upon Receipt at Laboratory																																																																																																																																																																																																				
Type of Container(s) Received	Sample Number																																																																																																																																																																																																								
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VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																																																																																																																								
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	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)																																																																																																																																																																																																								
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	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																																																																																																																								
Glass	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)										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:										Other:									
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08/16/23 09:52

23H1490

15874

08

Purchase Order No

Bill To:

Acct #

Cons #

JG

8

No. Samples: 8

No of Bottles: 8

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera State: CA Zip: 93637

Telephone: Fax:

Cell/Email: richie@rifinc.com; siest@hotmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Richard Iest

PROJECT:

CROP: DOMESTIC WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By: F&amp;R AG

## DELLAVALLE LABORATORY, INC.

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

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 269-8174

Water Type:  Drinking Water  Wastewater Ag Water  Groundwater  Monitoring Well

Other:

## Analysis and Bottles Required: (Please indicate Analysis)

( ) DWW1: EC, NO<sub>3</sub>-N NH4-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

## Description of Samples

- N03 U  
1 16-6 IFF DOM OFFICE
- 802 IFF DOM EAST RANCH
- 1-7 IFF DOM LEON RANCH
- 17-4 IFF DOM #66
- 17-5 IFF DOM #69
- 238 IFF DOM #74
- 2-7 IFF DOM #76
- 2-8 IFF DOM #120
- 9 IFF DOM
- 10

Date Sampled	Time Sampled	Rec'd Temp °C	Field Temp °C
8/15/23	1041	-2.8	230 min
	1136	-2.0	
	1631	-8.3	
	1418	-9.0	
	1423	-1.7	
	1444	-9.3	
	1447	-1.0	
	1451	-7.1	

Lava 8/17/23 12:35 - left un for Alex R

9/1/23 10:56  
-left un for Alex R.

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/15/23 1631	8/16/23
Second				
Third				
Fourth	DLC		8/16/23 952	

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

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

## Invoicing Information:

## Shipping

Sampling hrs	\$	In
Miles	\$	Out

Consulting

Amt Paid	Rec By	Check #	Date
----------	--------	---------	------

## Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

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



08/16/23 09:52

23H1490

<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 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 checked="" 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	1 L HNO <sub>3</sub> (Red)									
	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)									
Glass	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									
Special	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)									
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:										



Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1491-01	IFF Dom #84	Drinking Water	F & R Ag	Domestic Wells	08/16/2023 9:05

Default Cooler      Temperature on Receipt °C: 0.1  
 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.

A handwritten signature in black ink that reads "Scott M. Tricland".

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

## Sample Results

**Sample: IFF Dom #84  
23H1491-01 (Water)**

Sampled: 8/16/2023 9:05  
Sampled By: F & R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>38.3</b>	mg/L	10.0	1		08/18/23 08:24	SM 2320 B		BEH0841
Calcium	<b>6.7</b>	mg/L	0.1	1		08/18/23 10:50	EPA 200.7		BEH0824
Chloride	<b>3.6</b>	mg/L	0.2	1	250	08/16/23 19:20	EPA 300.0		BEH0806
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/18/23 08:24	SM 2320 B		BEH0841
Electrical Conductivity	<b>0.09</b>	mmhos/cm	0.01	1		08/18/23 08:24	SM 2510 B		BEH0841
Electrical Conductivity umhos	<b>89.0</b>	umhos/cm	10.0	1		08/18/23 08:24	SM 2510 B		BEH0841
Bicarbonate as CaCO <sub>3</sub>	<b>38.3</b>	mg/L	5.00	1		08/18/23 08:24	SM 2320 B		BEH0841
Potassium	<b>2.24</b>	mg/L	0.500	1		08/18/23 10:50	EPA 200.7		BEH0824
Magnesium	<b>2.8</b>	mg/L	0.1	1		08/18/23 10:50	EPA 200.7		BEH0824
Sodium	<b>6</b>	mg/L	1	1		08/18/23 10:50	EPA 200.7		BEH0824
Ammonia (as N)	*	mg/L	0.00	1		08/16/23 09:50	Field		BEH1013
Nitrate Nitrogen as NO <sub>3</sub> N	<b>0.3</b>	mg/L	0.1	1	10	08/16/23 19:20	EPA 300.0		BEH0806
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/18/23 08:24	SM 2320 B		BEH0841
pH	<b>7.1</b>	units	1.0	1		08/18/23 08:24	SM 4500-H+	H	BEH0841
Sulfate (SO <sub>4</sub> )	<b>2.9</b>	mg/L	0.5	1	250	08/16/23 19:20	EPA 300.0		BEH0806
Total Filterable Solids (TDS)	<b>99.0</b>	mg/L	10.0	1		08/22/23 16:57	SM 2540 C		BEH0878

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Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806</b>									
<b>Blank (BEH0806-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0806-BLK4)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N ND 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>LCS (BEH0806-BS1)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/16/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
98.8 90-110									
<b>LCS (BEH0806-BS2)</b>									
Chloride 4.9 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.0 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.7 0.5 mg/L									
97.9 90-110									
<b>LCS (BEH0806-BS3)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/17/2023									
Nitrate Nitrogen as NO <sub>3</sub> N 5.1 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 4.8 0.5 mg/L									
99.5 90-110									
<b>Duplicate (BEH0806-DUP1)</b>									
<b>Source: 23H1490-03</b> Prepared & Analyzed: 8/16/2023									
Chloride 20.1 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 1.7 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 5.7 0.5 mg/L									
20.3 1.17 10									
<b>Duplicate (BEH0806-DUP2)</b>									
<b>Source: 23H1494-01</b> Prepared & Analyzed: 8/17/2023									
Chloride 6.7 0.2 mg/L									
Nitrate Nitrogen as NO <sub>3</sub> N 2.4 0.1 mg/L									
Sulfate (SO <sub>4</sub> ) 15.5 0.5 mg/L									
6.6 0.420 10									
2.4 0.451 10									
15.5 0.0388 10									

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Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0806 (Continued)</b>									
<b>Duplicate (BEH0806-DUP3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	19.0	0.2	mg/L		19.0			0.148	10
Nitrate Nitrogen as NO3N	1.1	0.1	mg/L		1.1			0.371	10
Sulfate (SO4)	2.8	0.5	mg/L		2.7			0.509	10
<b>Matrix Spike (BEH0806-MS1)</b>									
<b>Source: 23H1490-03</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	25.5	0.2	mg/L	5.000	20.3	104	90-110		
Nitrate Nitrogen as NO3N	6.9	0.1	mg/L	5.000	1.7	105	90-110		
Sulfate (SO4)	10.9	0.5	mg/L	5.000	5.8	103	90-110		
<b>Matrix Spike (BEH0806-MS2)</b>									
<b>Source: 23H1494-01</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	11.7	0.2	mg/L	5.000	6.6	102	90-110		
Nitrate Nitrogen as NO3N	7.6	0.1	mg/L	5.000	2.4	104	90-110		
Sulfate (SO4)	20.5	0.5	mg/L	5.000	15.5	102	90-110		
<b>Matrix Spike (BEH0806-MS3)</b>									
<b>Source: 23H1496-07</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	23.6	0.2	mg/L	5.000	19.0	93.3	90-110		
Nitrate Nitrogen as NO3N	6.3	0.1	mg/L	5.000	1.1	104	90-110		
Sulfate (SO4)	7.8	0.5	mg/L	5.000	2.7	102	90-110		
<b>Reference (BEH0806-SRM1)</b>									
Prepared & Analyzed: 8/16/2023									
Chloride	12.7		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Sulfate (SO4)	9.9		mg/L	10.00		99.2	90-110		
<b>Reference (BEH0806-SRM2)</b>									
Prepared & Analyzed: 8/16/2023									
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 (BEH0806-SRM3)</b>									
Prepared & Analyzed: 8/17/2023									
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 (BEH0806-SRM4)</b>									
Prepared & Analyzed: 8/17/2023									
Chloride	12.9		mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110		
Sulfate (SO4)	10.1		mg/L	10.00		101	90-110		

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Iest Family Farms  
14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0824</b>									
<b>Blank (BEH0824-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEH0824-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
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 (BEH0824-BS1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	37.2	0.500	mg/L	35.71		104	90-110		
Calcium	36.8	0.1	mg/L	35.71		103	90-110		
Sodium	37	1	mg/L	35.71		103	90-110		
Magnesium	38.5	0.1	mg/L	35.71		108	90-110		
<b>LCS (BEH0824-BS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	34	1	mg/L	35.71		96.2	90-110		
Calcium	34.5	0.1	mg/L	35.71		96.5	90-110		
Potassium	33.9	0.500	mg/L	35.71		95.0	90-110		
Magnesium	36.2	0.1	mg/L	35.71		101	90-110		
<b>Duplicate (BEH0824-DUP1)</b>									
<b>Source: 23H1488-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	43	1	mg/L		44		1.62	15	
Potassium	2.78	0.500	mg/L		2.80		0.573	15	
Calcium	46.4	0.1	mg/L		46.8		0.794	15	
Magnesium	13.9	0.1	mg/L		14.1		1.43	15	
<b>Matrix Spike (BEH0824-MS1)</b>									
<b>Source: 23H1488-01</b> Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	80	1	mg/L	35.71	44	103	90-110		
Calcium	84.8	0.1	mg/L	35.71	46.8	107	90-110		
Potassium	39.3	0.500	mg/L	35.71	2.80	102	90-110		
Magnesium	52.2	0.1	mg/L	35.71	14.1	107	90-110		
<b>Matrix Spike (BEH0824-MS2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Potassium	41.2	0.500	mg/L	35.71		115	90-110		
Sodium	94	1	mg/L	35.71		264	90-110		
Calcium	120	0.1	mg/L	35.71		337	90-110		
Magnesium	65.5	0.1	mg/L	35.71		183	90-110		
<b>Reference (BEH0824-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Sodium	89		mg/L	91.50		97.5	90-110		

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Account# 00-0015874  
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Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0824 (Continued)</b>									
<b>Reference (BEH0824-SRM2)</b>									
Potassium	22.2		mg/L	21.90		101	90-110		
<b>Reference (BEH0824-SRM3)</b>									
Calcium	46.3		mg/L	45.90		101	90-110		
Magnesium	37.4		mg/L	35.60		105	90-110		

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Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0841</b>									
<b>Blank (BEH0841-BLK1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
<b>Blank (BEH0841-BLK2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
pH	5.3	1.0	units						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0841-BLK3)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L						
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L						
Alkalinity as CaCO <sub>3</sub>	ND	10.0	mg/L						
Bicarbonate as CaCO <sub>3</sub>	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0841-DUP1)</b>									
Source: 23H1494-01 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	0.26	0.01	mmhos/cm		0.26		1.24		10
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
Alkalinity as CaCO <sub>3</sub>	109	10.0	mg/L		107		2.19		10
pH	8.0	1.0	units		7.9		1.14		10
Electrical Conductivity umhos	260	10.0	umhos/cm		257		1.24		10
<b>Duplicate (BEH0841-DUP2)</b>									
Source: 23H1496-03 Prepared: 8/16/2023 Analyzed: 8/18/2023									
Hydroxide as CaCO <sub>3</sub>	ND	1.00	mg/L		ND				10
Carbonate as CaCO <sub>3</sub>	ND	1	mg/L		ND				10
pH	8.0	1.0	units		7.9		1.01		10
Electrical Conductivity	1.47	0.01	mmhos/cm		1.45		1.05		10
Alkalinity as CaCO <sub>3</sub>	470	10.0	mg/L		480		1.95		10
Electrical Conductivity umhos	1470	10.0	umhos/cm		1450		1.05		10
<b>Reference (BEH0841-SRM1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									

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14576 Ave 14  
Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

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

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0841 (Continued)</b>									
<b>Reference (BEH0841-SRM1)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO <sub>3</sub>	39.8		mg/L	40.60	98.1	90-110			
Electrical Conductivity	522		umhos/cm	538.0	97.1	90-110			
<b>Reference (BEH0841-SRM2)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Alkalinity as CaCO <sub>3</sub>	39.8		mg/L	40.60	98.1	90-110			
Electrical Conductivity	529		umhos/cm	538.0	98.3	90-110			
<b>Reference (BEH0841-SRM3)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
Electrical Conductivity	550		umhos/cm	538.0	102	90-110			
Alkalinity as CaCO <sub>3</sub>	41.1		mg/L	40.60	101	90-110			
<b>Reference (BEH0841-SRM4)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEH0841-SRM5)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEH0841-SRM6)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	4.0		units	4.000	101	97.5-102.5			
<b>Reference (BEH0841-SRM7)</b>									
Prepared: 8/16/2023 Analyzed: 8/18/2023									
pH	5.9		units	5.820	101	28178-101.7:			

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Madera, CA 93637

Account# 00-0015874  
Account Manager: Ben Nydam  
Submitted By: Richard Iest

Received: 08/16/2023 9:52  
Reported: 08/23/2023 13:17

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0878</b>									
<b>Blank (BEH0878-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023				
<b>LCS (BEH0878-BS1)</b>									
Total Filterable Solids (TDS)	15.0	10.0	mg/L	2000	Prepared: 8/17/2023 Analyzed: 8/22/2023	0.750	0-200		
<b>Duplicate (BEH0878-DUP1)</b>									
Total Filterable Solids (TDS)	720	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	740		2.74	10
<b>Duplicate (BEH0878-DUP2)</b>									
Total Filterable Solids (TDS)	295	10.0	mg/L		Prepared: 8/17/2023 Analyzed: 8/22/2023	295		0.00	10
<b>Reference (BEH0878-SRM1)</b>									
Total Filterable Solids (TDS)	323		mg/L	325.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	99.5	90-110		
<b>Reference (BEH0878-SRM2)</b>									
Total Filterable Solids (TDS)	487		mg/L	495.0	Prepared: 8/17/2023 Analyzed: 8/22/2023	98.3	90-110		

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08/16/23 09:52

20H1491

15824

08

Purchase Order No

Bill To:

Acct #

Cons #

Results Need By

Name: Iest Family Farms

Address: 14576 Avenue 14

City: Madera

State: CA

Zip: 93637

Telephone:

Fax:

Cell/Email:

richie@rifinc.com; siest@hotmail.com

COPY TO:

ariordan@fragservices.com

REQUESTED BY:

Richard Iest

PROJECT:

CROP: Domestic well

 Copy of Chain  QA/QC Documents

Sampled By:

F&amp;R AG

## 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. Samples: 1

No of Bottles:

 Drinking Water

[ ] Wastewater

 Ag Water Groundwater Monitoring Well

Other:

## Analysis and Bottles Required: (Please indicate Analysis)

 DWW1: EC, NO<sub>3</sub>-N NH<sub>4</sub>-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DWW2: DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DCW1: EC, NO<sub>3</sub>-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW1: EC, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

 DPW2: DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

 OtherDate  
Sampled

8/16/23

Time  
Sampled

09:05

Rec'd  
Temp °C

0.1

Field NH<sub>4</sub>-N

230 m.v

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08/16/23 09:52

23H1491

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

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

Container: Ice Chest  Box  None

Refrigerant: Wet Ice  Blue Ice  None

Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:

Received Preserved

Preserved Upon Receipt at Laboratory

Type of Container(s) Received

Sample Number

1 2 3 4 5 6 7 8 9 10

Sample Containers for Internal (DLI) Use

(Containers that go into the Lab)

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

Sample Containers for Subcontracted ("Send Out") Analyses

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

Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)											
	250 mL unpreserved (White) Plastic											
	250 mL HNO <sub>3</sub> (Red) Plastic											
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic											
	500 mL HNO <sub>3</sub> (Red)											
	1 L unpreserved (White) Plastic											
	1 L unpreserved (BOD) (Purple) Plastic											
VOA Vials	1 L HNO <sub>3</sub> (Red)											
	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											
	HAAS - 250mL AG Ammonium Chlorite											
	DO KIT											
	Other:											
	Other:											