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: Double DJ Dairy

Physical address of dairy:

14768 Avenue 27	Chowchilla	Madera	93610
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 06/01/1952

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

County Assessor Parcel Number(s) for dairy facility:

X026-X110-X008-XXXX

B. OPERATORS

DeJager, Edgar

Operator name: DeJager, Edgar

Telephone no.: Landline: ; Cellular: (559) 804-1286

P.O. Box 429	Chowchilla	CA	93610
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

DeJager, Edgar

Legal owner name: DeJager, Edgar

Telephone no.: Landline: ; Cellular: (559) 804-1286

P.O. Box 429	Chowchilla	CA	93610
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

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

AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	500	0	0	0
Number under roof	2,820	360	0	0	0	0
Maximum number	2,850	450	500	0	0	0
Average number	2,820	360	500	0	0	0
Avg live weight (lbs)	1,400	1,400	900	0		

Predominant milk cow breed: Holstein

Average milk production: 78 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 85,251.11 *tons per reporting period*

Total nitrogen from manure: 1,093,539.30 *lbs per reporting period*

After ammonia losses (30% loss applied): 765,477.51 *lbs per reporting period*

Total phosphorus from manure: 183,181.08 *lbs per reporting period*

Total potassium from manure: 554,877.94 *lbs per reporting period*

Total salt from manure: 1,410,579.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 107,291,900 *gallons*

Total nitrogen generated: 293,811.47 *lbs*

Total phosphorus generated: 74,225.48 *lbs*

Total potassium generated: 353,334.69 *lbs*

Total salt generated: 2,122,432.63 *lbs*

	107,291,900	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	107,291,900	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Chowchilla Canal	Surface water
El Nido Canal	Surface water
IW 162	Ground water
IW 171	Ground water
IW 201	Ground water

Source Description	Type
IW 202	Ground water
IW 208	Ground water
IW 221	Ground water
IW 222	Ground water
IW 225	Ground water
IW 231	Ground water
IW 234	Ground water
IW 238	Ground water
IW 239	Ground water
IW 241	Ground water
IW 243	Ground water
IW 250	Ground water
IW 254	Ground water
IW 255	Ground water
IW 256	Ground water
IW 257	Ground water
IW 258	Ground water
IW 259	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.

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

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
04/15/2023	Solid commercial fertilizer *CAN17*	38.52 *ton*	As-is	0.1	17.000000	0.000000	0.000000	0.000000
04/20/2023	Solid commercial fertilizer *5-11-4*	14.19 *ton*	As-is	0.1	5.000000	11.000000	4.000000	0.000000
05/20/2023	Solid commercial fertilizer *7-17-3*	13.36 *ton*	As-is	0.1	7.000000	17.000000	3.000000	0.000000
05/25/2023	Solid commercial fertilizer *30.5-0-0*	36.62 *ton*	As-is	0.1	30.500000	0.000000	0.000000	0.000000
05/25/2023	Solid commercial fertilizer *4.8-12.8-1.6*	5.54 *ton*	As-is	0.1	4.800000	12.800000	1.600000	0.000000
05/25/2023	Solid commercial fertilizer *NPK*	215.63 *ton*	As-is	0.1	7.900000	0.280000	9.700000	0.000000
06/01/2023	Solid commercial fertilizer *6.7-17.8-2.2*	6.33 *ton*	As-is	0.1	6.700000	17.800000	2.200000	0.000000
06/20/2023	Solid commercial fertilizer *UN32*	27.59 *ton*	As-is	0.1	32.000000	0.000000	0.000000	0.000000
07/01/2023	Solid commercial fertilizer *15.5-1-.5*	16.48 *ton*	As-is	0.1	15.500000	1.000000	0.500000	0.000000
08/01/2023	Solid commercial fertilizer *22.9-0-.7*	28.11 *ton*	As-is	0.1	22.900000	0.000000	0.700000	0.000000
08/15/2023	Solid commercial fertilizer *1.9-0-9.5*	47.10 *ton*	As-is	0.1	1.900000	0.000000	9.500000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	111,604.58	12,873.05	53,732.16	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	111,604.58	12,873.05	53,732.16	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 (%)
09/08/2023	Corral solids	2,100.00 *ton*	Dry-weight	16.1		16,100.00	4,600.00	30,700.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	56,733.18	16,209.48	108,180.66	0.00

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

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	56,733.18	16,209.48	108,180.66	0.00

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

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 209E	74	74	2	manure	X075-X130-X025-XXXX
Field 209W	74	74	2	manure	X075-X130-X025-XXXX
Field 214	83	83	1	none	X026-X050-X003-XXXX
Field 215	99	99	1	none	X026-X050-X004-XXXX
Field 216	87	87	2	manure	X026-X050-X004-XXXX
Field 217	51	51	2	both	X025-X030-X002-XXXX X025-X030-X003-XXXX
Field 218	81	81	2	process wastewater	X025-X030-X005-XXXX
Field 219	72	72	1	none	X026-X110-X008-XXXX
Field 220	73	73	2	process wastewater	X026-X110-X008-XXXX
Field 221	80	80	1	none	X025-X030-X005-XXXX
Field 222	80	80	2	process wastewater	X025-X030-X005-XXXX
Field 223	37	37	1	none	X026-X110-X008-XXXX
Field 224	63	63	1	process wastewater	X025-X030-X007-XXXX
Field 225	87	87	1	process wastewater	X025-X030-X007-XXXX
Field 226	48	48	2	manure	X025-X010-X005-XXXX X025-X010-X006-XXXX
Field 227E	74	74	1	process wastewater	X026-X110-X008-XXXX
Field 227W	62	62	1	process wastewater	X026-X110-X008-XXXX
Field 228	73	73	2	manure	X025-X010-X005-XXXX X025-X010-X006-XXXX
Field 229E	55	55	1	process wastewater	X026-X110-X008-XXXX
Field 229W	55	55	2	process wastewater	X026-X110-X008-XXXX
Field 230	35	35	1	none	X026-X120-X006-XXXX
Field 231	48	48	1	none	X026-X120-X006-XXXX
Field 232	88	88	2	both	X025-X030-X007-XXXX
Field 233	61	61	2	both	X025-X030-X007-XXXX
Field 234	85	85	2	process wastewater	X026-X110-X008-XXXX
Field 235	81	81	1	none	X026-X120-X006-XXXX
Field 236	36	36	1	none	X026-X090-X003-XXXX
Field 237	33	33	1	none	X026-X170-X022-XXXX
Field 238	71	71	2	process wastewater	X026-X170-X022-XXXX
Field 239	107	107	1	none	X026-X050-X003-XXXX

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

Totals for areas that were used for application	1,342	1,342	33		
Totals for areas that were not used for application	711	711	11		
Land application area totals	2,053	2,053	44		

B. CROPS AND HARVESTS

Field 209E

Field name: Field 209E

10/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 74 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	1,093.60 *ton*	As-is		65.1	6,100.00	1,100.00	6,300.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	14.78	180.30	32.51	186.21	711.76

05/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 05/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/07/2023	2,409.40 *ton*	As-is		65.0	5,100.00	900.00	4,300.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	72.80	184.80	0.00
Total actual harvest content	32.56	332.11	58.61	280.01	1,595.41

Field 209W

Field name: Field 209W

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

Field 209W

09/12/2022: Rye Grass

Crop: Rye Grass Acres planted: 74 Plant date: 09/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/08/2023	804.20 *ton*	As-is		65.0	5,300.00	1,200.00	11,100.00		9.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	352.00	64.00	132.80	0.00
Total actual harvest content	10.87	115.20	26.08	241.26	730.30

06/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 06/11/2023

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	1,948.70 *ton*	As-is		60.0	3,400.00	700.00	2,800.00		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	285.60	61.60	184.80	0.00
Total actual harvest content	26.33	179.07	36.87	147.47	1,137.62

Field 214

Field name: Field 214

10/01/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 83 Plant date: 10/01/2021

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	747.50 *ton*	As-is		13.9	26,900.00	2,800.00	25,900.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	9.01	484.52	50.43	466.51	1,581.85

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

Field 215

Field name: Field 215

09/26/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 99 Plant date: 09/26/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/31/2023	446.30 *ton*	As-is		19.1	29,800.00	2,900.00	24,800.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	4.51	268.68	26.15	223.60	722.11

Field 216

Field name: Field 216

10/13/2022: Rye Grass

Crop: Rye Grass Acres planted: 87 Plant date: 10/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/07/2023	741.20 *ton*	As-is		65.0	4,300.00	900.00	8,800.00		8.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	352.00	64.00	132.80	0.00
Total actual harvest content	8.52	73.27	15.34	149.94	524.80

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 87 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	2,201.40 *ton*	As-is		65.0	3,700.00	600.00	3,600.00		5.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	25.30	187.25	30.36	182.18	974.18

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

Field 217

Field name: Field 217

10/12/2022: Rye Grass

Crop: Rye Grass Acres planted: 51 Plant date: 10/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/06/2023	515.10 *ton*	As-is		68.7	4,200.00	1,000.00	9,400.00		14.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	352.00	64.00	132.80	0.00
Total actual harvest content	10.10	84.84	20.20	189.88	904.13

06/23/2023: Corn, silage

Crop: Corn, silage Acres planted: 51 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 (%)
10/19/2023	1,528.30 *ton*	As-is		66.0	5,200.00	1,000.00	4,200.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	29.97	311.65	59.93	251.72	1,202.26

Field 218

Field name: Field 218

09/10/2022: Rye Grass

Crop: Rye Grass Acres planted: 81 Plant date: 09/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/07/2023	958.50 *ton*	As-is		63.9	4,100.00	1,000.00	9,200.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	352.00	64.00	132.80	0.00
Total actual harvest content	11.83	97.03	23.67	217.73	777.47

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

Field 218

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 81 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	2,581.60 *ton*	As-is		66.7	4,500.00	1,100.00	5,200.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	31.87	286.84	70.12	331.46	1,231.14

Field 219

Field name: Field 219

10/01/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 72 Plant date: 10/01/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/09/2023	408.00 *ton*	As-is		19.7	32,100.00	2,800.00	19,100.00		10.53

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	5.67	363.80	31.73	216.47	958.30

Field 220

Field name: Field 220

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

Field 220

10/13/2022: Rye Grass

Crop: Rye Grass Acres planted: 73 Plant date: 10/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/07/2023	582.50 *ton*	As-is		65.0	4,600.00	1,300.00	11,000.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	352.00	64.00	132.80	0.00
Total actual harvest content	7.98	73.41	20.75	175.55	541.80

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 68 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/30/2023	1,979.00 *ton*	As-is		70.0	3,600.00	600.00	3,400.00		5.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	29.10	209.54	34.92	197.90	960.40

Field 221

Field name: Field 221

10/12/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 80 Plant date: 10/12/2021

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	671.20 *ton*	As-is		12.9	23,600.00	3,000.00	25,400.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	8.39	396.01	50.34	426.21	1,446.92

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

Field 222

Field name: Field 222

09/09/2022: Rye Grass

Crop: Rye Grass Acres planted: 80 Plant date: 09/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/06/2023	560.00 *ton*	As-is		65.0	5,000.00	1,200.00	11,700.00		13.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	352.00	64.00	132.80	0.00
Total actual harvest content	7.00	70.00	16.80	163.80	656.60

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	2,583.20 *ton*	As-is		69.6	3,200.00	600.00	4,000.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	32.29	206.66	38.75	258.32	1,335.00

Field 223

Field name: Field 223

09/29/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 37 Plant date: 09/29/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	142.40 *ton*	As-is		24.5	33,500.00	3,200.00	23,000.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	3.85	257.86	24.63	177.04	581.15

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

Field 224

Field name: Field 224

11/19/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 63 Plant date: 11/19/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/04/2023	529.10 *ton*	As-is		12.3	28,600.00	3,300.00	31,800.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	8.40	480.39	55.43	534.14	1,708.77

Field 225

Field name: Field 225

10/01/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 87 Plant date: 10/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/08/2023	498.40 *ton*	As-is		19.8	26,500.00	2,700.00	20,600.00		9.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	5.73	303.62	30.94	236.02	916.13

Field 226

Field name: Field 226

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

Field 226

11/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 48 Plant date: 11/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	661.60 *ton*	As-is		66.8	3,700.00	900.00	4,900.00		7.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	13.78	102.00	24.81	135.08	668.11

06/23/2023: Corn, silage

Crop: Corn, silage Acres planted: 48 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 (%)
10/17/2023	1,422.80 *ton*	As-is		66.9	4,300.00	900.00	5,000.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	29.64	254.92	53.36	296.42	1,255.86

Field 227E

Field name: Field 227E

04/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 04/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	2,809.60 *ton*	As-is		65.6	5,000.00	900.00	6,200.00		9.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	37.97	379.68	68.34	470.80	2,455.44

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

Field 227W

Field name: Field 227W

09/26/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 62 Plant date: 09/26/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/09/2023	473.93 *ton*	As-is		15.1	25,900.00	2,900.00	21,600.00		15.53

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	7.64	395.96	44.34	330.22	2,015.73

Field 228

Field name: Field 228

11/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 73 Plant date: 11/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	1,217.60 *ton*	As-is		67.5	4,900.00	1,100.00	7,200.00		8.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	16.68	163.46	36.69	240.18	932.38

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	2,199.60 *ton*	As-is		69.8	3,900.00	900.00	4,400.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	30.13	235.03	54.24	265.16	1,091.97

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

Field 229E

Field name: Field 229E

04/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 Plant date: 04/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	1,873.10 *ton*	As-is		61.5	4,600.00	900.00	5,200.00		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	285.60	61.60	184.80	0.00
Total actual harvest content	34.06	313.32	61.30	354.19	1,888.08

Field 229W

Field name: Field 229W

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

Crop: Wheat, silage, soft dough Acres planted: 55 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	1,250.30 *ton*	As-is		54.8	7,600.00	1,600.00	8,500.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	22.73	345.54	72.74	386.46	1,685.13

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	1,717.50 *ton*	As-is		65.9	4,100.00	900.00	5,200.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	31.23	256.06	56.21	324.76	1,277.82

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

Field 230

Field name: Field 230

11/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 35 Plant date: 11/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	86.40 *ton*	As-is		7.4	29,300.00	3,400.00	14,800.00		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	167.40	18.00	112.50	0.00
Total actual harvest content	2.47	144.66	16.79	73.07	370.32

Field 231

Field name: Field 231

11/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 48 Plant date: 11/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	128.00 *ton*	As-is		5.9	26,700.00	3,100.00	17,100.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	167.40	18.00	112.50	0.00
Total actual harvest content	2.67	142.40	16.53	91.20	466.74

Field 232

Field name: Field 232

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

Field 232

10/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 88 Plant date: 10/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/20/2023	1,653.10 *ton*	As-is		68.2	8,400.00	1,300.00	8,700.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	18.79	315.59	48.84	326.86	1,206.69

05/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 88 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	2,818.80 *ton*	As-is		65.0	5,000.00	1,100.00	5,000.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	32.03	320.32	70.47	320.32	1,367.76

Field 233

Field name: Field 233

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

Crop: Wheat, silage, soft dough Acres planted: 61 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	1,246.00 *ton*	As-is		72.9	4,700.00	900.00	5,900.00		8.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	20.43	192.01	36.77	241.03	952.11

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

Field 233

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 61 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	2,131.80 *ton*	As-is		71.8	3,700.00	900.00	4,600.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	34.95	258.61	62.91	321.52	1,379.73

Field 234

Field name: Field 234

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

Crop: Wheat, silage, soft dough Acres planted: 85 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	684.00 *ton*	As-is		68.6	13,000.00	1,400.00	12,100.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	8.05	209.22	22.53	194.74	308.27

05/26/2023: Tomato

Crop: Tomato Acres planted: 85 Plant date: 05/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	4,131.60 *ton*	As-is		92.4	1,400.00	300.00	2,200.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	65.00	169.00	26.00	273.00	0.00
Total actual harvest content	48.61	136.10	29.16	213.87	591.06

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

Field 235

Field name: Field 235

11/01/2019: Almond, in shell

Crop: Almond, in shell Acres planted: 81 Plant date: 11/01/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	247.80 *ton*	As-is		4.8	26,500.00	3,300.00	18,500.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	167.40	18.00	112.50	0.00
Total actual harvest content	3.06	162.14	20.19	113.19	419.39

Field 236

Field name: Field 236

11/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 36 Plant date: 11/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	92.54 *ton*	As-is		4.8	26,500.00	3,300.00	18,500.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	167.40	18.00	112.50	0.00
Total actual harvest content	2.57	136.24	16.97	95.11	352.39

Field 237

Field name: Field 237

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

Field 237

11/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 33 Plant date: 11/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	77.12 *ton*	As-is		5.2	26,200.00	2,900.00	15,700.00		9.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.50	167.40	18.00	112.50	0.00
Total actual harvest content	2.34	122.46	13.55	73.38	398.78

Field 238

Field name: Field 238

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

Crop: Wheat, silage, soft dough Acres planted: 71 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/20/2023	1,090.30 *ton*	As-is		67.7	4,700.00	700.00	6,100.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	21.00	323.40	54.60	174.30	0.00
Total actual harvest content	15.36	144.35	21.50	187.35	753.93

05/31/2023: Tomato

Crop: Tomato Acres planted: 71 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	4,581.70 *ton*	As-is		93.6	1,100.00	200.00	1,500.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	65.00	169.00	26.00	273.00	0.00
Total actual harvest content	64.53	141.97	25.81	193.59	652.54

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

Field 239

Field name: Field 239

11/13/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 107 Plant date: 11/13/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/09/2023	610.84 *ton*	As-is		25.7	30,900.00	2,700.00	18,700.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	644.40	57.60	392.40	0.00
Total actual harvest content	5.71	352.80	30.83	213.51	839.84

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

NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 209E - 10/15/2022: Wheat, silage, soft dough

Field name: Field 209E

Crop: Wheat, silage, soft dough

Plant date: 10/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/25/2022	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
IW 255	Ground water	2.98	0.00	0.00	264.79	13,812,120.00 *gal*
Application event totals		2.98	0.00	0.00	264.79	

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
Chowchilla Canal	Surface water	1.05	0.00	0.00	42.94	9,288,000.00 *gal*
Application event totals		1.05	0.00	0.00	42.94	

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
Chowchilla Canal	Surface water	0.30	0.00	0.00	12.32	2,664,000.00 *gal*
Application event totals		0.30	0.00	0.00	12.32	

03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.09	0.00	0.00	44.61	9,648,000.00 *gal*
Application event totals		1.09	0.00	0.00	44.61	

09/02/2023	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	232.07	54.12	373.61	0.00	504.00 *ton*
Application event totals		232.07	54.12	373.61	0.00	

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

Field 209E - 05/18/2023: Corn, silage

Field name: Field 209E

Crop: Corn, silage

Plant date: 05/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/28/2023	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	87.79	20.13	117.59	4,824.22	630.00 *ton*
Corral Solids	Corral solids	132.28	35.23	277.19	0.00	488.00 *ton*
Application event totals		220.07	55.37	394.78	4,824.22	

05/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

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
Chowchilla Canal	Surface water	1.07	0.00	0.00	43.94	9,504,000.00 *gal*
Application event totals		1.07	0.00	0.00	43.94	

06/22/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Application event totals		42.24	0.00	0.00	0.00	

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
IW 202	Ground water	1.44	0.00	0.00	877.70	7,861,680.00 *gal*
Application event totals		1.44	0.00	0.00	877.70	

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

Field 209E - 05/18/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.08	0.00	0.00	44.28	9,576,000.00 *gal*
Application event totals		1.08	0.00	0.00	44.28	

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
IW 202	Ground water	1.71	0.00	0.00	1,044.41	9,354,960.00 *gal*
Application event totals		1.71	0.00	0.00	1,044.41	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 202	Ground water	1.35	0.00	0.00	823.76	7,378,560.00 *gal*
Application event totals		1.35	0.00	0.00	823.76	

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
IW 255	Ground water	3.47	0.00	0.00	308.92	16,114,140.00 *gal*
Application event totals		3.47	0.00	0.00	308.92	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	2.46	0.00	0.00	219.02	11,424,840.00 *gal*
Application event totals		2.46	0.00	0.00	219.02	

Field 209W - 09/12/2022: Rye Grass

Field name: Field 209W

Crop: Rye Grass

Plant date: 09/12/2022

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

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

Field 209W - 09/12/2022: Rye Grass

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/06/2022	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	113.49	8.87	22.46	0.00	810.00 *ton*
Application event totals		113.49	8.87	22.46	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/13/2022	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
IW 202	Ground water	1.24	0.00	0.00	755.11	6,763,680.00 *gal*
Application event totals		1.24	0.00	0.00	755.11	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/25/2023	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
Chowchilla Canal	Surface water	1.27	0.00	0.00	51.93	11,232,000.00 *gal*
Application event totals		1.27	0.00	0.00	51.93	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/02/2023	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
Chowchilla Canal	Surface water	1.43	0.00	0.00	58.59	12,672,000.00 *gal*
Application event totals		1.43	0.00	0.00	58.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/10/2023	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
Chowchilla Canal	Surface water	1.06	0.00	0.00	43.61	9,432,000.00 *gal*
Application event totals		1.06	0.00	0.00	43.61	

Field 209W - 06/11/2023: Corn, silage

Field name: Field 209W

Crop: Corn, silage

Plant date: 06/11/2023

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

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

Field 209W - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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	165.82	38.03	222.11	9,112.41	1,190.00 *ton*
Application event totals		165.82	38.03	222.11	9,112.41	

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
Chowchilla Canal	Surface water	1.08	0.00	0.00	44.28	9,576,000.00 *gal*
Application event totals		1.08	0.00	0.00	44.28	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

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
Chowchilla Canal	Surface water	1.43	0.00	0.00	58.59	12,672,000.00 *gal*
Application event totals		1.43	0.00	0.00	58.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/13/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Application event totals		42.24	0.00	0.00	0.00	

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
IW 202	Ground water	0.82	0.00	0.00	500.14	4,479,840.00 *gal*
Application event totals		0.82	0.00	0.00	500.14	

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

Field 209W - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	2.88	0.00	0.00	256.62	13,385,820.00 *gal*
Application event totals		2.88	0.00	0.00	256.62	

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
IW 255	Ground water	2.63	0.00	0.00	233.74	12,192,180.00 *gal*
Application event totals		2.63	0.00	0.00	233.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	1.98	0.00	0.00	176.53	9,208,080.00 *gal*
Application event totals		1.98	0.00	0.00	176.53	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.68	0.00	0.00	27.96	6,048,000.00 *gal*
Application event totals		0.68	0.00	0.00	27.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/13/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 202	Ground water	1.48	0.00	0.00	902.21	8,081,280.00 *gal*
Application event totals		1.48	0.00	0.00	902.21	

Field 214 - 10/01/2021: Alfalfa, hay

Field name: Field 214

Crop: Alfalfa, hay

Plant date: 10/01/2021

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

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

Field 214 - 10/01/2021: Alfalfa, hay

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 221	Ground water	1.23	0.00	0.00	132.32	5,722,080.00 *gal*
Application event totals		1.23	0.00	0.00	132.32	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/06/2023	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
Chowchilla Canal	Surface water	0.44	0.00	0.00	18.06	4,380,000.00 *gal*
Application event totals		0.44	0.00	0.00	18.06	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/06/2023	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
Chowchilla Canal	Surface water	0.46	0.00	0.00	18.80	4,560,000.00 *gal*
Application event totals		0.46	0.00	0.00	18.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.51	0.00	0.00	21.02	5,100,000.00 *gal*
Application event totals		0.51	0.00	0.00	21.02	

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
Chowchilla Canal	Surface water	0.79	0.00	0.00	32.40	7,860,000.00 *gal*
Application event totals		0.79	0.00	0.00	32.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.97	0.00	0.00	39.82	9,660,000.00 *gal*
Application event totals		0.97	0.00	0.00	39.82	

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

Field 214 - 10/01/2021: Alfalfa, hay

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
Chowchilla Canal	Surface water	1.06	0.00	0.00	43.53	10,560,000.00 *gal*
Application event totals		1.06	0.00	0.00	43.53	

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
Chowchilla Canal	Surface water	0.77	0.00	0.00	31.41	7,620,000.00 *gal*
Application event totals		0.77	0.00	0.00	31.41	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 222	Ground water	0.47	0.00	0.00	91.37	4,684,440.00 *gal*
Application event totals		0.47	0.00	0.00	91.37	

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
IW 221	Ground water	1.56	0.00	0.00	167.67	7,250,880.00 *gal*
Application event totals		1.56	0.00	0.00	167.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 221	Ground water	2.98	0.00	0.00	320.20	13,846,560.00 *gal*
Application event totals		2.98	0.00	0.00	320.20	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/24/2023	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
IW 221	Ground water	2.47	0.00	0.00	265.65	11,487,840.00 *gal*
Application event totals		2.47	0.00	0.00	265.65	

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

Field 214 - 10/01/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/13/2023	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
IW 221	Ground water	1.88	0.00	0.00	202.02	8,736,000.00 *gal*
Application event totals		1.88	0.00	0.00	202.02	

Field 215 - 09/26/2019: Alfalfa, hay

Field name: Field 215

Crop: Alfalfa, hay

Plant date: 09/26/2019

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.93	0.00	0.00	38.15	11,040,000.00 *gal*
Application event totals		0.93	0.00	0.00	38.15	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/03/2023	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
Chowchilla Canal	Surface water	0.86	0.00	0.00	35.25	10,200,000.00 *gal*
Application event totals		0.86	0.00	0.00	35.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/14/2023	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
Chowchilla Canal	Surface water	0.62	0.00	0.00	25.51	7,380,000.00 *gal*
Application event totals		0.62	0.00	0.00	25.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.73	0.00	0.00	30.07	8,700,000.00 *gal*
Application event totals		0.73	0.00	0.00	30.07	

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

Field 215 - 09/26/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.42	0.00	0.00	17.21	4,980,000.00 *gal*
Application event totals		0.42	0.00	0.00	17.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.57	0.00	0.00	23.22	6,720,000.00 *gal*
Application event totals		0.57	0.00	0.00	23.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.01	0.00	0.00	41.47	12,000,000.00 *gal*
Application event totals		1.01	0.00	0.00	41.47	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.66	0.00	0.00	27.16	7,860,000.00 *gal*
Application event totals		0.66	0.00	0.00	27.16	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	1.06	0.00	0.00	94.08	6,565,020.00 *gal*
Application event totals		1.06	0.00	0.00	94.08	

Field 216 - 10/13/2022: Rye Grass

Field name: Field 216

Crop: Rye Grass

Plant date: 10/13/2022

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

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

Field 216 - 10/13/2022: Rye Grass

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/01/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Separator Solids	Separator solids	98.91	7.73	19.58	0.00	830.00 *ton*
Application event totals		98.91	7.73	19.58	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	2.11	0.00	0.00	187.69	11,510,100.00 *gal*
Application event totals		2.11	0.00	0.00	187.69	

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
Chowchilla Canal	Surface water	1.34	0.00	0.00	54.74	13,920,000.00 *gal*
Application event totals		1.34	0.00	0.00	54.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/03/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.16	0.00	0.00	47.43	12,060,000.00 *gal*
Application event totals		1.16	0.00	0.00	47.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.63	0.00	0.00	25.72	6,540,000.00 *gal*
Application event totals		0.63	0.00	0.00	25.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.48	0.00	0.00	19.58	4,980,000.00 *gal*
Application event totals		0.48	0.00	0.00	19.58	

Field 216 - 06/12/2023: Corn, silage

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

Field 216 - 06/12/2023: Corn, silage

Field name: Field 216

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/19/2023	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
Separator Solids	Separator solids	163.56	37.51	219.08	8,988.30	1,380.00 *ton*
Application event totals		163.56	37.51	219.08	8,988.30	

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
Chowchilla Canal	Surface water	0.93	0.00	0.00	37.94	9,648,000.00 *gal*
Application event totals		0.93	0.00	0.00	37.94	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/12/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.62	0.00	0.00	25.25	6,420,000.00 *gal*
Application event totals		0.62	0.00	0.00	25.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/07/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Application event totals		40.54	0.00	0.00	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.77	0.00	0.00	31.38	7,980,000.00 *gal*
Application event totals		0.77	0.00	0.00	31.38	

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

Field 216 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	2.11	0.00	0.00	187.69	11,510,100.00 *gal*
Application event totals		2.11	0.00	0.00	187.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	2.17	0.00	0.00	193.25	11,851,140.00 *gal*
Application event totals		2.17	0.00	0.00	193.25	

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
IW 255	Ground water	2.02	0.00	0.00	179.35	10,998,540.00 *gal*
Application event totals		2.02	0.00	0.00	179.35	

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
IW 255	Ground water	1.78	0.00	0.00	158.49	9,719,640.00 *gal*
Application event totals		1.78	0.00	0.00	158.49	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 255	Ground water	2.00	0.00	0.00	177.96	10,913,280.00 *gal*
Application event totals		2.00	0.00	0.00	177.96	

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
IW 255	Ground water	2.12	0.00	0.00	189.08	11,595,360.00 *gal*
Application event totals		2.12	0.00	0.00	189.08	

Field 217 - 10/12/2022: Rye Grass

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

Field 217 - 10/12/2022: Rye Grass

Field name: Field 217

Crop: Rye Grass

Plant date: 10/12/2022

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Separator Solids	Separator solids	101.65	7.94	20.12	0.00	500.00 *ton*
Application event totals		101.65	7.94	20.12	0.00	

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
IW 162	Ground water	6.49	0.00	0.00	356.78	9,398,400.00 *gal*
Application event totals		6.49	0.00	0.00	356.78	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.15	0.00	0.00	47.10	7,020,000.00 *gal*
Application event totals		1.15	0.00	0.00	47.10	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/06/2023	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
Chowchilla Canal	Surface water	1.48	0.00	0.00	60.78	9,060,000.00 *gal*
Application event totals		1.48	0.00	0.00	60.78	

Field 217 - 06/23/2023: Corn, silage

Field name: Field 217

Crop: Corn, silage

Plant date: 06/23/2023

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

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

Field 217 - 06/23/2023: Corn, silage

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
Chowchilla Canal	Surface water	1.58	0.00	0.00	64.61	9,630,000.00 *gal*
Application event totals		1.58	0.00	0.00	64.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/02/2023	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
Chowchilla Canal	Surface water	0.94	0.00	0.00	38.64	5,760,000.00 *gal*
Application event totals		0.94	0.00	0.00	38.64	

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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Application event totals		40.54	0.00	0.00	0.00	

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
Chowchilla Canal	Surface water	0.80	0.00	0.00	32.60	4,860,000.00 *gal*
Application event totals		0.80	0.00	0.00	32.60	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.16	0.00	0.00	47.70	7,110,000.00 *gal*
Application event totals		1.16	0.00	0.00	47.70	

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

Field 217 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	172.40	33.65	163.75	743.44	1,958,400.00 *gal*
Application event totals		172.40	33.65	163.75	743.44	

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
Chowchilla Canal	Surface water	0.91	0.00	0.00	37.43	5,580,000.00 *gal*
Application event totals		0.91	0.00	0.00	37.43	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	3.49	0.00	0.00	191.77	5,051,640.00 *gal*
Application event totals		3.49	0.00	0.00	191.77	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	4.38	0.00	0.00	240.83	6,343,920.00 *gal*
Application event totals		4.38	0.00	0.00	240.83	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
WWS	Process wastewater	156.24	30.49	148.40	673.74	1,774,800.00 *gal*
IW 162	Ground water	3.24	0.00	0.00	178.39	4,699,200.00 *gal*
Application event totals		159.48	30.49	148.40	852.13	

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
IW 162	Ground water	4.06	0.00	0.00	222.99	5,874,000.00 *gal*
Application event totals		4.06	0.00	0.00	222.99	

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

Field 217 - 06/23/2023: Corn, silage

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
IW 162	Ground water	3.00	0.00	0.00	165.01	4,346,760.00 *gal*
Application event totals		3.00	0.00	0.00	165.01	

Field 218 - 09/10/2022: Rye Grass

Field name: Field 218

Crop: Rye Grass

Plant date: 09/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/06/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	111.11	62.00	178.94	1,893.42	4,039,200.00 *gal*
Chowchilla Canal	Surface water	1.23	0.00	0.00	50.56	11,970,000.00 *gal*
Application event totals		112.34	62.00	178.94	1,943.99	

11/09/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	6.18	0.00	0.00	339.76	14,215,080.00 *gal*
Application event totals		6.18	0.00	0.00	339.76	

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
Chowchilla Canal	Surface water	0.94	0.00	0.00	38.40	9,090,000.00 *gal*
Application event totals		0.94	0.00	0.00	38.40	

02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.03	0.00	0.00	42.20	9,990,000.00 *gal*
Application event totals		1.03	0.00	0.00	42.20	

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

Field 218 - 06/14/2023: Corn, silage

Field name: Field 218

Crop: Corn, silage

Plant date: 06/14/2023

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)	Amount
WWS	Process wastewater	76.27	18.47	114.00	738.83	3,855,600.00 *gal*
Chowchilla Canal	Surface water	1.56	0.00	0.00	64.12	15,180,000.00 *gal*
Application event totals		77.83	18.47	114.00	802.95	

06/14/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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
Chowchilla Canal	Surface water	0.82	0.00	0.00	33.71	7,980,000.00 *gal*
Application event totals		0.82	0.00	0.00	33.71	

07/12/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Application event totals		40.54	0.00	0.00	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.93	0.00	0.00	38.02	9,000,000.00 *gal*
Application event totals		0.93	0.00	0.00	38.02	

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

Field 218 - 06/14/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.82	0.00	0.00	33.45	7,920,000.00 *gal*
Application event totals		0.82	0.00	0.00	33.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	1.02	0.00	0.00	41.82	9,900,000.00 *gal*
Application event totals		1.02	0.00	0.00	41.82	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.82	0.00	0.00	33.71	7,980,000.00 *gal*
Application event totals		0.82	0.00	0.00	33.71	

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
WWS	Process wastewater	98.37	19.20	93.44	424.21	1,774,800.00 *gal*
Chowchilla Canal	Surface water	0.80	0.00	0.00	32.69	7,740,000.00 *gal*
Application event totals		99.17	19.20	93.44	456.90	

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
WWS	Process wastewater	122.12	23.83	115.99	526.60	2,203,200.00 *gal*
IW 162	Ground water	3.63	0.00	0.00	199.37	8,341,080.00 *gal*
Application event totals		125.74	23.83	115.99	725.97	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	4.34	0.00	0.00	238.68	9,985,800.00 *gal*
Application event totals		4.34	0.00	0.00	238.68	

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

Field 218 - 06/14/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	3.12	0.00	0.00	171.29	7,166,280.00 *gal*
Application event totals		3.12	0.00	0.00	171.29	

Field 219 - 10/01/2021: Alfalfa, hay

Field name: Field 219

Crop: Alfalfa, hay

Plant date: 10/01/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/25/2023	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
Chowchilla Canal	Surface water	0.99	0.00	0.00	40.49	8,520,000.00 *gal*
Application event totals		0.99	0.00	0.00	40.49	

02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.13	0.00	0.00	46.19	9,720,000.00 *gal*
Application event totals		1.13	0.00	0.00	46.19	

04/26/2023	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
Chowchilla Canal	Surface water	1.27	0.00	0.00	52.18	10,980,000.00 *gal*
Application event totals		1.27	0.00	0.00	52.18	

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
Chowchilla Canal	Surface water	1.35	0.00	0.00	55.31	11,640,000.00 *gal*
Application event totals		1.35	0.00	0.00	55.31	

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

Field 219 - 10/01/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.85	0.00	0.00	34.78	7,320,000.00 *gal*
Application event totals		0.85	0.00	0.00	34.78	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.70	0.00	0.00	28.80	6,060,000.00 *gal*
Application event totals		0.70	0.00	0.00	28.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 257	Ground water	0.90	0.00	0.00	23.31	7,735,620.00 *gal*
Application event totals		0.90	0.00	0.00	23.31	

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
IW 257	Ground water	0.52	0.00	0.00	13.54	4,492,740.00 *gal*
Application event totals		0.52	0.00	0.00	13.54	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 257	Ground water	1.04	0.00	0.00	27.08	8,985,480.00 *gal*
Application event totals		1.04	0.00	0.00	27.08	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 171	Ground water	1.56	0.00	0.00	187.62	8,520,000.00 *gal*
Application event totals		1.56	0.00	0.00	187.62	

Field 220 - 10/13/2022: Rye Grass

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

Field 220 - 10/13/2022: Rye Grass

Field name: Field 220

Crop: Rye Grass

Plant date: 10/13/2022

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
WWS	Process wastewater	93.40	52.12	150.42	1,591.61	3,060,000.00 *gal*
IW 171	Ground water	1.54	0.00	0.00	185.05	8,520,000.00 *gal*
Application event totals		94.94	52.12	150.42	1,776.66	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.88	0.00	0.00	36.00	7,680,000.00 *gal*
Application event totals		0.88	0.00	0.00	36.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/11/2023	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
Chowchilla Canal	Surface water	0.91	0.00	0.00	37.40	7,980,000.00 *gal*
Application event totals		0.91	0.00	0.00	37.40	

Field 220 - 06/13/2023: Corn, silage

Field name: Field 220

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	74.98	18.16	112.09	726.42	3,182,400.00 *gal*
Chowchilla Canal	Surface water	1.52	0.00	0.00	62.49	12,420,000.00 *gal*
Application event totals		76.51	18.16	112.09	788.91	

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

Field 220 - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/13/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.94	0.00	0.00	38.64	7,680,000.00 *gal*
Application event totals		0.94	0.00	0.00	38.64	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/07/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Application event totals		40.54	0.00	0.00	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.77	0.00	0.00	31.40	6,240,000.00 *gal*
Application event totals		0.77	0.00	0.00	31.40	

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
IW 257	Ground water	0.53	0.00	0.00	13.90	4,357,620.00 *gal*
Application event totals		0.53	0.00	0.00	13.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 257	Ground water	0.64	0.00	0.00	16.71	5,235,900.00 *gal*
Application event totals		0.64	0.00	0.00	16.71	

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

Field 220 - 06/13/2023: 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
IW 171	Ground water	1.50	0.00	0.00	180.78	7,753,200.00 *gal*
Application event totals		1.50	0.00	0.00	180.78	

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
IW 171	Ground water	1.21	0.00	0.00	145.02	6,219,600.00 *gal*
Application event totals		1.21	0.00	0.00	145.02	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.16	0.00	0.00	139.06	5,964,000.00 *gal*
Application event totals		1.16	0.00	0.00	139.06	

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
WWS	Process wastewater	129.30	25.24	122.81	557.58	1,958,400.00 *gal*
IW 171	Ground water	1.40	0.00	0.00	168.86	7,242,000.00 *gal*
Application event totals		130.70	25.24	122.81	726.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 171	Ground water	1.70	0.00	0.00	204.62	8,775,600.00 *gal*
Application event totals		1.70	0.00	0.00	204.62	

Field 221 - 10/12/2021: Alfalfa, hay

Field name: Field 221

Crop: Alfalfa, hay

Plant date: 10/12/2021

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

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

Field 221 - 10/12/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/30/2023	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
Chowchilla Canal	Surface water	0.89	0.00	0.00	36.57	8,550,000.00 *gal*
Application event totals		0.89	0.00	0.00	36.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.99	0.00	0.00	40.42	9,450,000.00 *gal*
Application event totals		0.99	0.00	0.00	40.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/06/2023	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
Chowchilla Canal	Surface water	0.79	0.00	0.00	32.33	7,560,000.00 *gal*
Application event totals		0.79	0.00	0.00	32.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.70	0.00	0.00	28.87	6,750,000.00 *gal*
Application event totals		0.70	0.00	0.00	28.87	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.99	0.00	0.00	40.42	9,450,000.00 *gal*
Application event totals		0.99	0.00	0.00	40.42	

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
Chowchilla Canal	Surface water	0.93	0.00	0.00	38.11	8,910,000.00 *gal*
Application event totals		0.93	0.00	0.00	38.11	

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

Field 221 - 10/12/2021: Alfalfa, hay

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
Chowchilla Canal	Surface water	0.85	0.00	0.00	35.03	8,190,000.00 *gal*
Application event totals		0.85	0.00	0.00	35.03	

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
IW 162	Ground water	3.00	0.00	0.00	164.90	6,813,840.00 *gal*
Application event totals		3.00	0.00	0.00	164.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.69	0.00	0.00	28.10	6,570,000.00 *gal*
Application event totals		0.69	0.00	0.00	28.10	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 162	Ground water	4.09	0.00	0.00	224.60	9,280,920.00 *gal*
Application event totals		4.09	0.00	0.00	224.60	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	2.69	0.00	0.00	147.84	6,108,960.00 *gal*
Application event totals		2.69	0.00	0.00	147.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.83	0.00	0.00	33.87	7,920,000.00 *gal*
Application event totals		0.83	0.00	0.00	33.87	

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

Field 221 - 10/12/2021: Alfalfa, hay

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	2.74	0.00	0.00	150.68	6,226,440.00 *gal*
Application event totals		2.74	0.00	0.00	150.68	

Field 222 - 09/09/2022: Rye Grass

Field name: Field 222

Crop: Rye Grass

Plant date: 09/09/2022

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
WWS	Process wastewater	88.63	49.46	142.74	1,510.44	3,182,400.00 *gal*
Chowchilla Canal	Surface water	0.85	0.00	0.00	35.03	8,190,000.00 *gal*
Application event totals		89.49	49.46	142.74	1,545.46	

11/08/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	5.33	0.00	0.00	292.84	12,100,440.00 *gal*
Application event totals		5.33	0.00	0.00	292.84	

01/25/2023	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
Chowchilla Canal	Surface water	0.98	0.00	0.00	40.03	9,360,000.00 *gal*
Application event totals		0.98	0.00	0.00	40.03	

02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.57	0.00	0.00	64.28	15,030,000.00 *gal*
Application event totals		1.57	0.00	0.00	64.28	

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

Field 222 - 06/14/2023: Corn, silage

Field name: Field 222

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	73.54	17.81	109.93	712.45	3,672,000.00 *gal*
Chowchilla Canal	Surface water	1.32	0.00	0.00	54.27	12,690,000.00 *gal*
Application event totals		74.87	17.81	109.93	766.72	

06/14/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

07/02/2023	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
Chowchilla Canal	Surface water	0.85	0.00	0.00	35.03	8,190,000.00 *gal*
Application event totals		0.85	0.00	0.00	35.03	

07/14/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Application event totals		40.54	0.00	0.00	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.78	0.00	0.00	31.95	7,470,000.00 *gal*
Application event totals		0.78	0.00	0.00	31.95	

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

Field 222 - 06/14/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	0.88	0.00	0.00	106.38	5,367,600.00 *gal*
Application event totals		0.88	0.00	0.00	106.38	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	133.95	26.14	127.23	577.62	2,386,800.00 *gal*
IW 171	Ground water	1.22	0.00	0.00	146.91	7,412,400.00 *gal*
Application event totals		135.17	26.14	127.23	724.53	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	3.83	0.00	0.00	210.39	8,693,520.00 *gal*
Application event totals		3.83	0.00	0.00	210.39	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.84	0.00	0.00	34.26	8,010,000.00 *gal*
Application event totals		0.84	0.00	0.00	34.26	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 162	Ground water	4.65	0.00	0.00	255.88	10,573,200.00 *gal*
Application event totals		4.65	0.00	0.00	255.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 162	Ground water	3.98	0.00	0.00	218.92	9,045,960.00 *gal*
Application event totals		3.98	0.00	0.00	218.92	

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

Field 222 - 06/14/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.60	0.00	0.00	192.50	9,712,800.00 *gal*
Application event totals		1.60	0.00	0.00	192.50	

Field 223 - 09/29/2020: Alfalfa, hay

Field name: Field 223

Crop: Alfalfa, hay

Plant date: 09/29/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	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
Chowchilla Canal	Surface water	1.29	0.00	0.00	52.99	5,730,000.00 *gal*
Application event totals		1.29	0.00	0.00	52.99	

05/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.16	0.00	0.00	47.44	5,130,000.00 *gal*
Application event totals		1.16	0.00	0.00	47.44	

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
Chowchilla Canal	Surface water	1.23	0.00	0.00	50.49	5,460,000.00 *gal*
Application event totals		1.23	0.00	0.00	50.49	

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
Chowchilla Canal	Surface water	1.09	0.00	0.00	44.66	4,830,000.00 *gal*
Application event totals		1.09	0.00	0.00	44.66	

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

Field 223 - 09/29/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 241	Ground water	7.66	0.00	0.00	290.13	5,450,760.00 *gal*
Application event totals		7.66	0.00	0.00	290.13	

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
IW 257	Ground water	1.19	0.00	0.00	30.90	5,269,680.00 *gal*
Application event totals		1.19	0.00	0.00	30.90	

Field 224 - 11/19/2021: Alfalfa, hay

Field name: Field 224

Crop: Alfalfa, hay

Plant date: 11/19/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/25/2023	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
Chowchilla Canal	Surface water	1.14	0.00	0.00	46.60	8,580,000.00 *gal*
Application event totals		1.14	0.00	0.00	46.60	

02/03/2023	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
WWS	Process wastewater	91.25	24.60	166.74	1,031.97	4,100,400.00 *gal*
Chowchilla Canal	Surface water	1.06	0.00	0.00	43.66	8,040,000.00 *gal*
Application event totals		92.31	24.60	166.74	1,075.63	

04/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.64	0.00	0.00	26.39	4,860,000.00 *gal*
Application event totals		0.64	0.00	0.00	26.39	

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

Field 224 - 11/19/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.06	0.00	0.00	43.66	8,040,000.00 *gal*
Application event totals		1.06	0.00	0.00	43.66	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	1.06	0.00	0.00	43.34	7,980,000.00 *gal*
Application event totals		1.06	0.00	0.00	43.34	

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
Chowchilla Canal	Surface water	0.80	0.00	0.00	32.91	6,060,000.00 *gal*
Application event totals		0.80	0.00	0.00	32.91	

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
Chowchilla Canal	Surface water	1.06	0.00	0.00	43.34	7,980,000.00 *gal*
Application event totals		1.06	0.00	0.00	43.34	

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
Chowchilla Canal	Surface water	0.72	0.00	0.00	29.33	5,400,000.00 *gal*
Application event totals		0.72	0.00	0.00	29.33	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.82	0.00	0.00	33.56	6,180,000.00 *gal*
Application event totals		0.82	0.00	0.00	33.56	

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

Field 224 - 11/19/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.63	0.00	0.00	25.74	4,740,000.00 *gal*
Application event totals		0.63	0.00	0.00	25.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/24/2023	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
WWS	Process wastewater	235.51	45.96	223.69	1,015.59	3,304,800.00 *gal*
Chowchilla Canal	Surface water	0.85	0.00	0.00	34.87	6,420,000.00 *gal*
Application event totals		236.36	45.96	223.69	1,050.46	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.64	0.00	0.00	26.07	4,800,000.00 *gal*
Application event totals		0.64	0.00	0.00	26.07	

Field 225 - 10/01/2020: Alfalfa, hay

Field name: Field 225

Crop: Alfalfa, hay

Plant date: 10/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/30/2023	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
WWS	Process wastewater	69.03	18.61	126.15	780.75	4,284,000.00 *gal*
Chowchilla Canal	Surface water	0.81	0.00	0.00	33.03	8,400,000.00 *gal*
Application event totals		69.84	18.61	126.15	813.78	

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

Field 225 - 10/01/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/10/2023	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
Chowchilla Canal	Surface water	0.89	0.00	0.00	36.57	9,300,000.00 *gal*
Application event totals		0.89	0.00	0.00	36.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.72	0.00	0.00	29.50	7,500,000.00 *gal*
Application event totals		0.72	0.00	0.00	29.50	

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
Chowchilla Canal	Surface water	1.24	0.00	0.00	50.73	12,900,000.00 *gal*
Application event totals		1.24	0.00	0.00	50.73	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 250	Ground water	1.38	0.00	0.00	120.97	4,275,000.00 *gal*
Application event totals		1.38	0.00	0.00	120.97	

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
Chowchilla Canal	Surface water	0.37	0.00	0.00	15.10	3,840,000.00 *gal*
Application event totals		0.37	0.00	0.00	15.10	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 250	Ground water	1.09	0.00	0.00	96.14	3,397,500.00 *gal*
IW 259	Ground water	1.12	0.00	0.00	145.82	6,441,660.00 *gal*
Application event totals		2.22	0.00	0.00	241.96	

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

Field 225 - 10/01/2020: Alfalfa, hay

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
IW 250	Ground water	1.15	0.00	0.00	100.59	3,555,000.00 *gal*
Application event totals		1.15	0.00	0.00	100.59	

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
IW 259	Ground water	1.18	0.00	0.00	152.58	6,740,280.00 *gal*
Application event totals		1.18	0.00	0.00	152.58	

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
WWS	Process wastewater	164.23	32.05	155.98	708.19	3,182,400.00 *gal*
IW 250	Ground water	1.51	0.00	0.00	132.43	4,680,000.00 *gal*
IW 259	Ground water	1.55	0.00	0.00	200.86	8,873,280.00 *gal*
Application event totals		167.28	32.05	155.98	1,041.48	

09/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 250	Ground water	0.72	0.00	0.00	63.03	2,227,500.00 *gal*
IW 259	Ground water	0.74	0.00	0.00	95.60	4,223,340.00 *gal*
Application event totals		1.46	0.00	0.00	158.63	

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
IW 250	Ground water	1.09	0.00	0.00	96.14	3,397,500.00 *gal*
IW 259	Ground water	1.12	0.00	0.00	145.82	6,441,660.00 *gal*
Application event totals		2.22	0.00	0.00	241.96	

Field 226 - 11/30/2022: Wheat, silage, soft dough

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

Field 226 - 11/30/2022: Wheat, silage, soft dough

Field name: Field 226

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/27/2022	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	116.64	9.11	23.09	0.00	540.00 *ton*
Application event totals		116.64	9.11	23.09	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/25/2023	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
Chowchilla Canal	Surface water	0.89	0.00	0.00	36.57	5,130,000.00 *gal*
Application event totals		0.89	0.00	0.00	36.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/03/2023	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
Chowchilla Canal	Surface water	0.55	0.00	0.00	22.67	3,180,000.00 *gal*
Application event totals		0.55	0.00	0.00	22.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/25/2023	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
Chowchilla Canal	Surface water	1.35	0.00	0.00	55.17	7,740,000.00 *gal*
Application event totals		1.35	0.00	0.00	55.17	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.88	0.00	0.00	35.93	5,040,000.00 *gal*
Application event totals		0.88	0.00	0.00	35.93	

Field 226 - 06/23/2023: Corn, silage

Field name: Field 226

Crop: Corn, silage

Plant date: 06/23/2023

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

Field 226 - 06/23/2023: 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
Separator Solids	Separator solids	88.08	20.20	117.97	4,840.17	410.00 *ton*
Corral Solids	Corral solids	130.38	34.73	273.22	0.00	312.00 *ton*
Application event totals		218.46	54.93	391.19	4,840.17	

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
Chowchilla Canal	Surface water	0.87	0.00	0.00	35.50	4,980,000.00 *gal*
Application event totals		0.87	0.00	0.00	35.50	

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
7-17-3	Solid commercial fertilizer	4.47	10.87	1.92	0.00	
Application event totals		4.47	10.87	1.92	0.00	

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
Chowchilla Canal	Surface water	0.95	0.00	0.00	39.13	5,490,000.00 *gal*
Application event totals		0.95	0.00	0.00	39.13	

07/23/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Application event totals		42.24	0.00	0.00	0.00	

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
IW 222	Ground water	0.23	0.00	0.00	45.25	1,341,660.00 *gal*
Application event totals		0.23	0.00	0.00	45.25	

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

Field 226 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.13	0.00	0.00	46.19	6,480,000.00 *gal*
Application event totals		1.13	0.00	0.00	46.19	

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
Chowchilla Canal	Surface water	1.25	0.00	0.00	51.32	7,200,000.00 *gal*
Application event totals		1.25	0.00	0.00	51.32	

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
IW 162	Ground water	5.00	0.00	0.00	274.83	6,813,840.00 *gal*
Application event totals		5.00	0.00	0.00	274.83	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	4.14	0.00	0.00	227.45	5,639,040.00 *gal*
Application event totals		4.14	0.00	0.00	227.45	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.83	0.00	0.00	34.00	4,770,000.00 *gal*
Application event totals		0.83	0.00	0.00	34.00	

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
IW 222	Ground water	0.44	0.00	0.00	85.90	2,546,880.00 *gal*
Application event totals		0.44	0.00	0.00	85.90	

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

Field 226 - 06/23/2023: Corn, silage

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
Chowchilla Canal	Surface water	0.86	0.00	0.00	35.28	4,950,000.00 *gal*
Application event totals		0.86	0.00	0.00	35.28	

Field 227E - 04/22/2023: Corn, silage

Field name: Field 227E

Crop: Corn, silage

Plant date: 04/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/17/2022	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
WWS	Process wastewater sludge	140.80	34.42	91.30	319.63	1,453,500.00 *gal*
Application event totals		140.80	34.42	91.30	319.63	

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
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

05/15/2023	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
IW 171	Ground water	1.81	0.00	0.00	217.24	10,138,800.00 *gal*
Application event totals		1.81	0.00	0.00	217.24	

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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Application event totals		40.54	0.00	0.00	0.00	

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

Field 227E - 04/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.06	0.00	0.00	127.79	5,964,000.00 *gal*
Application event totals		1.06	0.00	0.00	127.79	

06/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.67	0.00	0.00	200.81	9,372,000.00 *gal*
Application event totals		1.67	0.00	0.00	200.81	

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
IW 171	Ground water	2.50	0.00	0.00	301.21	14,058,000.00 *gal*
Application event totals		2.50	0.00	0.00	301.21	

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
WWS	Process wastewater	167.09	32.61	158.70	720.52	2,754,000.00 *gal*
IW 171	Ground water	2.05	0.00	0.00	246.45	11,502,000.00 *gal*
Application event totals		169.14	32.61	158.70	966.97	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.72	0.00	0.00	206.28	9,627,600.00 *gal*
Application event totals		1.72	0.00	0.00	206.28	

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
IW 171	Ground water	1.97	0.00	0.00	237.32	11,076,000.00 *gal*
Application event totals		1.97	0.00	0.00	237.32	

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

Field 227E - 04/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.82	0.00	0.00	219.06	10,224,000.00 *gal*
Application event totals		1.82	0.00	0.00	219.06	

Field 227W - 09/26/2020: Alfalfa, hay

Field name: Field 227W

Crop: Alfalfa, hay

Plant date: 09/26/2020

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	69.19	18.66	126.44	782.55	3,060,000.00 *gal*
Chowchilla Canal	Surface water	1.21	0.00	0.00	49.67	9,000,000.00 *gal*
Application event totals		70.40	18.66	126.44	832.21	

02/02/2023	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
Chowchilla Canal	Surface water	1.11	0.00	0.00	45.69	8,280,000.00 *gal*
Application event totals		1.11	0.00	0.00	45.69	

03/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.04	0.00	0.00	42.71	7,740,000.00 *gal*
Application event totals		1.04	0.00	0.00	42.71	

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
Chowchilla Canal	Surface water	0.81	0.00	0.00	33.28	6,030,000.00 *gal*
Application event totals		0.81	0.00	0.00	33.28	

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

Field 227W - 09/26/2020: Alfalfa, hay

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 241	Ground water	4.82	0.00	0.00	182.76	5,753,580.00 *gal*
IW 241	Ground water	4.82	0.00	0.00	182.76	5,753,580.00 *gal*
Application event totals		9.65	0.00	0.00	365.52	

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
IW 241	Ground water	5.59	0.00	0.00	211.62	6,662,040.00 *gal*
Application event totals		5.59	0.00	0.00	211.62	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 241	Ground water	3.52	0.00	0.00	133.26	4,195,220.00 *gal*
Application event totals		3.52	0.00	0.00	133.26	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 241	Ground water	6.13	0.00	0.00	232.23	7,310,940.00 *gal*
Application event totals		6.13	0.00	0.00	232.23	

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
IW 241	Ground water	5.26	0.00	0.00	199.25	6,272,700.00 *gal*
Application event totals		5.26	0.00	0.00	199.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 241	Ground water	2.90	0.00	0.00	109.93	3,460,800.00 *gal*
Application event totals		2.90	0.00	0.00	109.93	

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

Field 227W - 09/26/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	199.43	38.92	189.42	859.98	2,754,000.00 *gal*
IW 241	Ground water	6.49	0.00	0.00	245.97	7,743,540.00 *gal*
Application event totals		205.92	38.92	189.42	1,105.95	

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
IW 241	Ground water	5.48	0.00	0.00	207.50	6,532,260.00 *gal*
Application event totals		5.48	0.00	0.00	207.50	

Field 228 - 11/30/2022: Wheat, silage, soft dough

Field name: Field 228

Crop: Wheat, silage, soft dough Plant date: 11/30/2022

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
Corral Solids	Corral solids	205.38	47.89	330.63	0.00	440.00 *ton*
Application event totals		205.38	47.89	330.63	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/25/2023	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
Chowchilla Canal	Surface water	0.67	0.00	0.00	27.42	5,850,000.00 *gal*
Application event totals		0.67	0.00	0.00	27.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/02/2023	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
Chowchilla Canal	Surface water	0.41	0.00	0.00	16.87	3,600,000.00 *gal*
Application event totals		0.41	0.00	0.00	16.87	

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

Field 228 - 11/30/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/20/2023	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
Chowchilla Canal	Surface water	0.59	0.00	0.00	24.18	5,160,000.00 *gal*
Application event totals		0.59	0.00	0.00	24.18	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.85	0.00	0.00	35.01	7,470,000.00 *gal*
Application event totals		0.85	0.00	0.00	35.01	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.88	0.00	0.00	36.28	7,740,000.00 *gal*
Application event totals		0.88	0.00	0.00	36.28	

Field 228 - 06/22/2023: Corn, silage

Field name: Field 228

Crop: Corn, silage

Plant date: 06/22/2023

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
Separator Solids	Separator solids	91.81	21.06	122.98	5,045.55	650.00 *ton*
Corral Solids	Corral solids	125.30	33.37	262.57	0.00	456.00 *ton*
Application event totals		217.12	54.43	385.55	5,045.55	

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
Chowchilla Canal	Surface water	0.92	0.00	0.00	37.68	8,040,000.00 *gal*
Application event totals		0.92	0.00	0.00	37.68	

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

Field 228 - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/22/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

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
Chowchilla Canal	Surface water	1.41	0.00	0.00	57.65	12,300,000.00 *gal*
Application event totals		1.41	0.00	0.00	57.65	

07/18/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Application event totals		42.24	0.00	0.00	0.00	

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
Chowchilla Canal	Surface water	0.86	0.00	0.00	35.43	7,560,000.00 *gal*
Application event totals		0.86	0.00	0.00	35.43	

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
Chowchilla Canal	Surface water	0.86	0.00	0.00	35.43	7,560,000.00 *gal*
Application event totals		0.86	0.00	0.00	35.43	

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
Chowchilla Canal	Surface water	0.94	0.00	0.00	38.39	8,190,000.00 *gal*
Application event totals		0.94	0.00	0.00	38.39	

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

Field 228 - 06/22/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 162	Ground water	4.14	0.00	0.00	227.45	8,576,040.00 *gal*
Application event totals		4.14	0.00	0.00	227.45	

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
IW 162	Ground water	4.08	0.00	0.00	224.33	8,458,560.00 *gal*
Application event totals		4.08	0.00	0.00	224.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/19/2023	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
Chowchilla Canal	Surface water	1.39	0.00	0.00	56.95	12,150,000.00 *gal*
Application event totals		1.39	0.00	0.00	56.95	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/28/2023	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
Chowchilla Canal	Surface water	0.71	0.00	0.00	29.11	6,210,000.00 *gal*
Application event totals		0.71	0.00	0.00	29.11	

Field 229E - 04/24/2023: Corn, silage

Field name: Field 229E

Crop: Corn, silage

Plant date: 04/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/19/2022	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
WWS	Process wastewater sludge	138.68	33.90	89.92	314.80	1,064,000.00 *gal*
Application event totals		138.68	33.90	89.92	314.80	

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

Field 229E - 04/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.55	0.00	0.00	186.67	6,475,200.00 *gal*
Application event totals		1.55	0.00	0.00	186.67	

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
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.33	0.00	0.00	159.65	5,538,000.00 *gal*
Application event totals		1.33	0.00	0.00	159.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/29/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Application event totals		40.54	0.00	0.00	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	2.27	0.00	0.00	272.63	9,457,200.00 *gal*
Application event totals		2.27	0.00	0.00	272.63	

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
IW 171	Ground water	1.65	0.00	0.00	198.95	6,901,200.00 *gal*
Application event totals		1.65	0.00	0.00	198.95	

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

Field 229E - 04/24/2023: 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
IW 171	Ground water	1.47	0.00	0.00	176.84	6,134,400.00 *gal*
Application event totals		1.47	0.00	0.00	176.84	

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
WWS	Process wastewater	128.37	31.09	191.88	1,243.54	4,406,400.00 *gal*
Application event totals		128.37	31.09	191.88	1,243.54	

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
IW 171	Ground water	1.33	0.00	0.00	159.65	5,538,000.00 *gal*
Application event totals		1.33	0.00	0.00	159.65	

07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.37	0.00	0.00	164.56	5,708,400.00 *gal*
Application event totals		1.37	0.00	0.00	164.56	

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
IW 171	Ground water	1.63	0.00	0.00	196.49	6,816,000.00 *gal*
Application event totals		1.63	0.00	0.00	196.49	

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
IW 171	Ground water	1.47	0.00	0.00	176.84	6,134,400.00 *gal*
Application event totals		1.47	0.00	0.00	176.84	

Field 229W - 11/21/2022: Wheat, silage, soft dough

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

Field 229W - 11/21/2022: Wheat, silage, soft dough

Field name: Field 229W

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	128.92	71.95	207.63	2,197.00	3,182,400.00 *gal*
Chowchilla Canal	Surface water	1.41	0.00	0.00	57.67	9,270,000.00 *gal*
Application event totals		130.33	71.95	207.63	2,254.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/12/2023	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
WWS	Process wastewater	107.64	29.02	196.70	1,217.36	4,222,800.00 *gal*
Chowchilla Canal	Surface water	0.94	0.00	0.00	38.63	6,210,000.00 *gal*
Application event totals		108.58	29.02	196.70	1,255.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	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
Chowchilla Canal	Surface water	1.11	0.00	0.00	45.35	7,290,000.00 *gal*
Application event totals		1.11	0.00	0.00	45.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	68.64	18.51	125.43	776.29	2,692,800.00 *gal*
Chowchilla Canal	Surface water	0.60	0.00	0.00	24.63	3,960,000.00 *gal*
Application event totals		69.24	18.51	125.43	800.92	

Field 229W - 06/13/2023: Corn, silage

Field name: Field 229W

Crop: Corn, silage

Plant date: 06/13/2023

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

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

Field 229W - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/13/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	1.47	0.00	0.00	60.47	9,720,000.00 *gal*
Application event totals		1.47	0.00	0.00	60.47	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.04	0.00	0.00	42.55	6,840,000.00 *gal*
Application event totals		1.04	0.00	0.00	42.55	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/14/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
Chowchilla Canal	Surface water	0.93	0.00	0.00	38.07	6,120,000.00 *gal*
Application event totals		41.47	0.00	0.00	38.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
WWS	Process wastewater	129.89	25.35	123.37	560.11	1,591,200.00 *gal*
IW 171	Ground water	1.61	0.00	0.00	194.04	6,730,800.00 *gal*
Application event totals		131.50	25.35	123.37	754.15	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.78	0.00	0.00	213.69	7,412,400.00 *gal*
Application event totals		1.78	0.00	0.00	213.69	

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

Field 229W - 06/13/2023: Corn, silage

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
IW 171	Ground water	1.35	0.00	0.00	162.11	5,623,200.00 *gal*
Application event totals		1.35	0.00	0.00	162.11	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	114.90	22.42	109.13	495.49	1,407,600.00 *gal*
IW 171	Ground water	1.63	0.00	0.00	196.49	6,816,000.00 *gal*
Application event totals		116.54	22.42	109.13	691.98	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.49	0.00	0.00	179.30	6,219,600.00 *gal*
Application event totals		1.49	0.00	0.00	179.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	1.47	0.00	0.00	176.84	6,134,400.00 *gal*
Application event totals		1.47	0.00	0.00	176.84	

Field 230 - 11/01/2020: Almond, in shell

Field name: Field 230

Crop: Almond, in shell

Plant date: 11/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN17	Solid commercial fertilizer	51.62	0.00	12.15	0.00	
Application event totals		51.62	0.00	12.15	0.00	

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

Field 230 - 11/01/2020: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	6.48	0.00	0.00	265.70	27,180,000.00 *gal*
Application event totals		6.48	0.00	0.00	265.70	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/26/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	129.17	4.58	158.60	0.00	
Application event totals		129.17	4.58	158.60	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 171	Ground water	6.45	0.00	0.00	775.80	17,125,200.00 *gal*
Application event totals		6.45	0.00	0.00	775.80	

Field 231 - 11/01/2020: Almond, in shell

Field name: Field 231

Crop: Almond, in shell

Plant date: 11/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/21/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN17	Solid commercial fertilizer	51.62	0.00	12.15	0.00	
Application event totals		51.62	0.00	12.15	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/21/2023	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
Chowchilla Canal	Surface water	5.90	0.00	0.00	241.85	33,930,000.00 *gal*
Application event totals		5.90	0.00	0.00	241.85	

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

Field 231 - 11/01/2020: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/27/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	129.17	4.58	158.60	0.00	
Application event totals		129.17	4.58	158.60	0.00	

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
IW 171	Ground water	5.87	0.00	0.00	706.40	21,385,200.00 *gal*
Application event totals		5.87	0.00	0.00	706.40	

Field 232 - 10/14/2022: Wheat, silage, soft dough

Field name: Field 232

Crop: Wheat, silage, soft dough

Plant date: 10/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2022	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	272.60	63.56	438.84	0.00	704.00 *ton*
Application event totals		272.60	63.56	438.84	0.00	

10/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 234	Ground water	9.56	0.00	0.00	91.48	4,823,280.00 *gal*
Application event totals		9.56	0.00	0.00	91.48	

11/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.18	0.00	0.00	48.22	12,402,000.00 *gal*
Application event totals		1.18	0.00	0.00	48.22	

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

Field 232 - 10/14/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.66	0.00	0.00	26.99	6,942,000.00 *gal*
Application event totals		0.66	0.00	0.00	26.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	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
Chowchilla Canal	Surface water	0.88	0.00	0.00	36.09	9,282,000.00 *gal*
Application event totals		0.88	0.00	0.00	36.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.78	0.00	0.00	31.84	8,190,000.00 *gal*
Application event totals		0.78	0.00	0.00	31.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/21/2023	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
Chowchilla Canal	Surface water	0.46	0.00	0.00	18.80	4,836,000.00 *gal*
Application event totals		0.46	0.00	0.00	18.80	

Field 232 - 05/20/2023: Corn, silage

Field name: Field 232

Crop: Corn, silage

Plant date: 05/20/2023

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.39	0.00	0.00	57.01	14,664,000.00 *gal*
Application event totals		1.39	0.00	0.00	57.01	

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

Field 232 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

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
Chowchilla Canal	Surface water	1.16	0.00	0.00	47.61	12,246,000.00 *gal*
Application event totals		1.16	0.00	0.00	47.61	

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
UN 32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Application event totals		42.24	0.00	0.00	0.00	

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
Chowchilla Canal	Surface water	0.98	0.00	0.00	40.33	10,374,000.00 *gal*
Application event totals		0.98	0.00	0.00	40.33	

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
WWS	Process wastewater	165.48	32.30	157.18	713.61	3,243,600.00 *gal*
Chowchilla Canal	Surface water	0.98	0.00	0.00	40.03	10,296,000.00 *gal*
Application event totals		166.46	32.30	157.18	753.64	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.01	0.00	0.00	41.55	10,686,000.00 *gal*
Application event totals		1.01	0.00	0.00	41.55	

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

Field 232 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.91	0.00	0.00	37.30	9,594,000.00 *gal*
Application event totals		0.91	0.00	0.00	37.30	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.90	0.00	0.00	36.70	9,438,000.00 *gal*
Application event totals		0.90	0.00	0.00	36.70	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	146.75	28.64	139.38	632.82	2,876,400.00 *gal*
Chowchilla Canal	Surface water	0.87	0.00	0.00	35.48	9,126,000.00 *gal*
Application event totals		147.61	28.64	139.38	668.30	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/23/2023	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
Chowchilla Canal	Surface water	0.84	0.00	0.00	34.57	8,892,000.00 *gal*
Application event totals		0.84	0.00	0.00	34.57	

Field 233 - 11/19/2022: Wheat, silage, soft dough

Field name: Field 233

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/04/2022	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	254.72	59.40	410.07	0.00	456.00 *ton*
Application event totals		254.72	59.40	410.07	0.00	

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

Field 233 - 11/19/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.57	0.00	0.00	23.56	4,200,000.00 *gal*
Application event totals		0.57	0.00	0.00	23.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	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
Chowchilla Canal	Surface water	0.46	0.00	0.00	18.85	3,360,000.00 *gal*
Application event totals		0.46	0.00	0.00	18.85	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/20/2023	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
Chowchilla Canal	Surface water	0.60	0.00	0.00	24.57	4,380,000.00 *gal*
Application event totals		0.60	0.00	0.00	24.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.62	0.00	0.00	25.58	4,560,000.00 *gal*
Application event totals		0.62	0.00	0.00	25.58	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.56	0.00	0.00	23.05	4,110,000.00 *gal*
Application event totals		0.56	0.00	0.00	23.05	

Field 233 - 06/21/2023: Corn, silage

Field name: Field 233

Crop: Corn, silage

Plant date: 06/21/2023

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

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

Field 233 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/01/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 259	Ground water	1.65	0.00	0.00	213.48	6,612,300.00 *gal*
Application event totals		1.65	0.00	0.00	213.48	

06/21/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 259	Ground water	1.68	0.00	0.00	217.61	6,740,280.00 *gal*
Application event totals		1.68	0.00	0.00	217.61	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 259	Ground water	1.09	0.00	0.00	141.86	4,393,980.00 *gal*
Application event totals		1.09	0.00	0.00	141.86	

07/14/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Application event totals		42.24	0.00	0.00	0.00	

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
IW 259	Ground water	1.35	0.00	0.00	174.92	5,417,820.00 *gal*
Application event totals		1.35	0.00	0.00	174.92	

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

Field 233 - 06/21/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	148.64	29.01	141.18	640.99	2,019,600.00 *gal*
IW 259	Ground water	1.40	0.00	0.00	181.80	5,631,120.00 *gal*
Application event totals		150.04	29.01	141.18	822.79	

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
IW 259	Ground water	0.96	0.00	0.00	123.96	3,839,400.00 *gal*
Application event totals		0.96	0.00	0.00	123.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 259	Ground water	1.75	0.00	0.00	227.25	7,038,900.00 *gal*
Application event totals		1.75	0.00	0.00	227.25	

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
WWS	Process wastewater	121.62	23.74	115.51	524.44	1,652,400.00 *gal*
IW 259	Ground water	1.72	0.00	0.00	223.12	6,910,920.00 *gal*
Application event totals		123.34	23.74	115.51	747.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 259	Ground water	1.70	0.00	0.00	220.37	6,825,600.00 *gal*
Application event totals		1.70	0.00	0.00	220.37	

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
IW 259	Ground water	1.23	0.00	0.00	159.77	4,948,560.00 *gal*
Application event totals		1.23	0.00	0.00	159.77	

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

Field 234 - 11/19/2022: Wheat, silage, soft dough

Field name: Field 234

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/03/2023	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
WWS	Process wastewater	118.10	31.85	215.82	1,335.67	7,160,400.00 *gal*
Chowchilla Canal	Surface water	1.03	0.00	0.00	42.39	10,530,000.00 *gal*
Application event totals		119.13	31.85	215.82	1,378.05	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.78	0.00	0.00	31.88	7,920,000.00 *gal*
Application event totals		0.78	0.00	0.00	31.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	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
Chowchilla Canal	Surface water	0.53	0.00	0.00	21.74	5,400,000.00 *gal*
Application event totals		0.53	0.00	0.00	21.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/10/2023	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
Chowchilla Canal	Surface water	0.66	0.00	0.00	27.17	6,750,000.00 *gal*
Application event totals		0.66	0.00	0.00	27.17	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	87.82	23.68	160.48	993.19	5,324,400.00 *gal*
Chowchilla Canal	Surface water	0.77	0.00	0.00	31.52	7,830,000.00 *gal*
Application event totals		88.59	23.68	160.48	1,024.71	

Field 234 - 05/26/2023: Tomato

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

Field 234 - 05/26/2023: Tomato

Field name: Field 234

Crop: Tomato

Plant date: 05/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/02/2023	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
Chowchilla Canal	Surface water	0.84	0.00	0.00	34.42	8,550,000.00 *gal*
Application event totals		0.84	0.00	0.00	34.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/26/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
4.8-12.8-1.6	Solid commercial fertilizer	3.41	9.09	1.14	0.00	
Application event totals		3.41	9.09	1.14	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.14	0.00	0.00	46.73	11,610,000.00 *gal*
Application event totals		1.14	0.00	0.00	46.73	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/08/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6.7-17.8-2.2	Solid commercial fertilizer	5.44	14.44	1.78	0.00	
Application event totals		5.44	14.44	1.78	0.00	

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
Chowchilla Canal	Surface water	1.12	0.00	0.00	46.01	11,430,000.00 *gal*
Application event totals		1.12	0.00	0.00	46.01	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/04/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15.5-1-5	Solid commercial fertilizer	32.75	2.11	1.06	0.00	
Application event totals		32.75	2.11	1.06	0.00	

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

Field 234 - 05/26/2023: Tomato

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
Chowchilla Canal	Surface water	2.09	0.00	0.00	85.86	21,330,000.00 *gal*
Application event totals		2.09	0.00	0.00	85.86	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/04/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
22.9-0-7	Solid commercial fertilizer	82.53	0.00	2.52	0.00	
Application event totals		82.53	0.00	2.52	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 208	Ground water	0.60	0.00	0.00	122.19	6,100,920.00 *gal*
Application event totals		0.60	0.00	0.00	122.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/18/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1.9-0-9.5	Solid commercial fertilizer	11.47	0.00	57.37	0.00	
Application event totals		11.47	0.00	57.37	0.00	

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
IW 208	Ground water	0.28	0.00	0.00	56.25	2,808,360.00 *gal*
Application event totals		0.28	0.00	0.00	56.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 208	Ground water	0.23	0.00	0.00	46.55	2,324,160.00 *gal*
Application event totals		0.23	0.00	0.00	46.55	

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

Field 234 - 05/26/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 208	Ground water	0.11	0.00	0.00	23.27	1,162,080.00 *gal*
Application event totals		0.11	0.00	0.00	23.27	

Field 235 - 11/01/2019: Almond, in shell

Field name: Field 235

Crop: Almond, in shell

Plant date: 11/01/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN17	Solid commercial fertilizer	58.18	0.00	13.69	0.00	
Application event totals		58.18	0.00	13.69	0.00	

04/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	9.26	0.00	0.00	379.78	89,910,000.00 *gal*
Application event totals		9.26	0.00	0.00	379.78	

05/26/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	186.57	6.61	229.08	0.00	
Application event totals		186.57	6.61	229.08	0.00	

Field 236 - 11/01/2020: Almond, in shell

Field name: Field 236

Crop: Almond, in shell

Plant date: 11/01/2020

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

Field 236 - 11/01/2020: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/19/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN17	Solid commercial fertilizer	62.10	0.00	14.61	0.00	
Application event totals		62.10	0.00	14.61	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	7.57	0.00	0.00	310.50	32,670,000.00 *gal*
Application event totals		7.57	0.00	0.00	310.50	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	124.80	4.42	153.23	0.00	
Application event totals		124.80	4.42	153.23	0.00	

Field 237 - 11/01/2020: Almond, in shell

Field name: Field 237

Crop: Almond, in shell

Plant date: 11/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/19/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN17	Solid commercial fertilizer	62.10	0.00	14.61	0.00	
Application event totals		62.10	0.00	14.61	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	8.97	0.00	0.00	367.65	35,460,000.00 *gal*
Application event totals		8.97	0.00	0.00	367.65	

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

Field 237 - 11/01/2020: Almond, in shell

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	124.80	4.42	153.23	0.00	
Application event totals		124.80	4.42	153.23	0.00	

Field 238 - 11/21/2022: Wheat, silage, soft dough

Field name: Field 238

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	1.08	0.00	0.00	44.24	9,180,000.00 *gal*
Application event totals		1.08	0.00	0.00	44.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	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
Chowchilla Canal	Surface water	0.86	0.00	0.00	35.13	7,290,000.00 *gal*
Application event totals		0.86	0.00	0.00	35.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/06/2023	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
WWS	Process wastewater	72.51	19.55	132.50	820.02	3,672,000.00 *gal*
Chowchilla Canal	Surface water	1.27	0.00	0.00	52.04	10,800,000.00 *gal*
Application event totals		73.78	19.55	132.50	872.06	

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

Field 238 - 11/21/2022: Wheat, silage, soft dough

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	109.11	26.42	163.09	1,056.96	4,834,800.00 *gal*
Chowchilla Canal	Surface water	0.84	0.00	0.00	34.26	7,110,000.00 *gal*
Application event totals		109.94	26.42	163.09	1,091.22	

Field 238 - 05/31/2023: Tomato

Field name: Field 238

Crop: Tomato

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.03	0.00	0.00	42.07	8,730,000.00 *gal*
Application event totals		1.03	0.00	0.00	42.07	

05/31/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
4.8-12.8-1.6	Solid commercial fertilizer	3.41	9.09	1.14	0.00	
Application event totals		3.41	9.09	1.14	0.00	

06/04/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6.7-17.8-2.2	Solid commercial fertilizer	5.44	14.44	1.78	0.00	
Application event totals		5.44	14.44	1.78	0.00	

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
Chowchilla Canal	Surface water	0.90	0.00	0.00	36.86	7,650,000.00 *gal*
Application event totals		0.90	0.00	0.00	36.86	

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

Field 238 - 05/31/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15.5-1-5	Solid commercial fertilizer	32.75	2.11	1.06	0.00	
Application event totals		32.75	2.11	1.06	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	1.31	0.00	0.00	53.78	11,160,000.00 *gal*
Application event totals		1.31	0.00	0.00	53.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
22.9-0-7	Solid commercial fertilizer	82.53	0.00	2.52	0.00	
Application event totals		82.53	0.00	2.52	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.97	0.00	0.00	39.90	8,280,000.00 *gal*
Application event totals		0.97	0.00	0.00	39.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/16/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1.9-0-9.5	Solid commercial fertilizer	11.47	0.00	57.37	0.00	
Application event totals		11.47	0.00	57.37	0.00	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 208	Ground water	0.92	0.00	0.00	188.08	7,844,040.00 *gal*
Application event totals		0.92	0.00	0.00	188.08	

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

Field 238 - 05/31/2023: Tomato

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
IW 208	Ground water	0.55	0.00	0.00	111.45	4,648,320.00 *gal*
Application event totals		0.55	0.00	0.00	111.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 208	Ground water	0.34	0.00	0.00	69.66	2,905,200.00 *gal*
Application event totals		0.34	0.00	0.00	69.66	

Field 239 - 11/13/2021: Alfalfa, hay

Field name: Field 239

Crop: Alfalfa, hay

Plant date: 11/13/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.75	0.00	0.00	30.70	9,600,000.00 *gal*
Application event totals		0.75	0.00	0.00	30.70	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/09/2023	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
Chowchilla Canal	Surface water	0.61	0.00	0.00	24.94	7,800,000.00 *gal*
Application event totals		0.61	0.00	0.00	24.94	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.46	0.00	0.00	18.99	5,940,000.00 *gal*
Application event totals		0.46	0.00	0.00	18.99	

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

Field 239 - 11/13/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.58	0.00	0.00	23.79	7,440,000.00 *gal*
Application event totals		0.58	0.00	0.00	23.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Chowchilla Canal	Surface water	0.58	0.00	0.00	23.98	7,500,000.00 *gal*
Application event totals		0.58	0.00	0.00	23.98	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.68	0.00	0.00	28.01	8,760,000.00 *gal*
Application event totals		0.68	0.00	0.00	28.01	

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
Chowchilla Canal	Surface water	0.45	0.00	0.00	18.61	5,820,000.00 *gal*
Application event totals		0.45	0.00	0.00	18.61	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.71	0.00	0.00	28.97	9,060,000.00 *gal*
Application event totals		0.71	0.00	0.00	28.97	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 221	Ground water	1.28	0.00	0.00	137.12	7,644,000.00 *gal*
Application event totals		1.28	0.00	0.00	137.12	

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

Field 239 - 11/13/2021: Alfalfa, hay

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
IW 221	Ground water	1.17	0.00	0.00	125.36	6,988,800.00 *gal*
Application event totals		1.17	0.00	0.00	125.36	

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
IW 221	Ground water	1.10	0.00	0.00	118.31	6,595,680.00 *gal*
Application event totals		1.10	0.00	0.00	118.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 221	Ground water	1.51	0.00	0.00	162.19	9,041,760.00 *gal*
Application event totals		1.51	0.00	0.00	162.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.67	0.00	0.00	27.63	8,640,000.00 *gal*
Application event totals		0.67	0.00	0.00	27.63	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

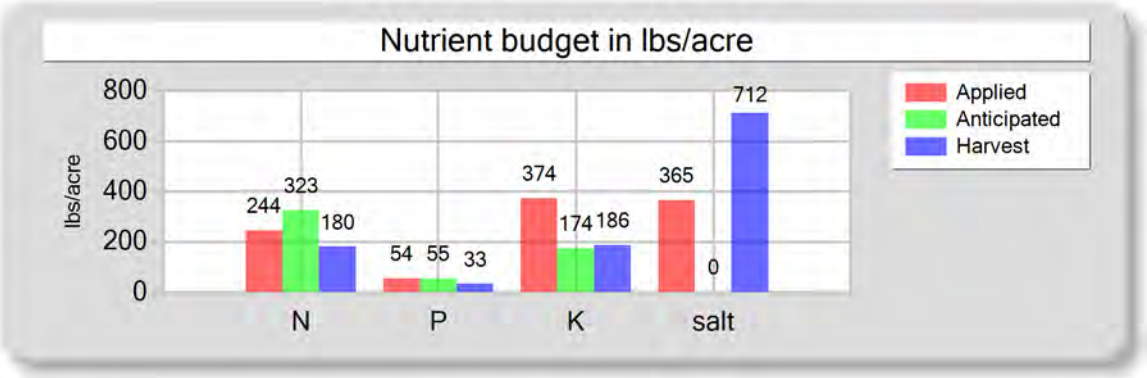
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Chowchilla Canal	Surface water	0.84	0.00	0.00	34.34	10,740,000.00 *gal*
Application event totals		0.84	0.00	0.00	34.34	

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

B. NUTRIENT BUDGET

Field 209E - 10/15/2022: Wheat, silage, soft dough

Field name: Field 209E Crop: Wheat, silage, soft dough Plant date: 10/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	232.07	54.12	373.61	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	5.41	0.00	0.00	364.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	244.49	54.12	373.61	364.66
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	180.30	32.51	186.21	711.76
Nutrient balance	64.19	21.60	187.40	-347.10
Applied to removed ratio	1.36	1.66	2.01	0.51

Fresh water applied	
35,412,120.00	*gallons*
1,304.11	*acre-inches*
17.62	*inches/acre*

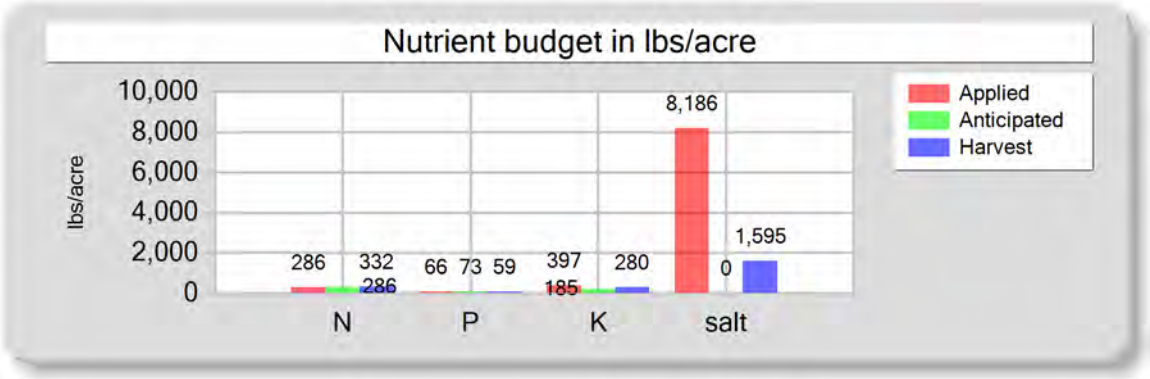
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 209E - 05/18/2023: Corn, silage

Field name: Field 209E Crop: Corn, silage Plant date: 05/18/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	46.71	10.86	1.92	0.00
Dry manure	220.07	55.37	394.78	4,824.22
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	12.58	0.00	0.00	3,362.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.36	66.23	396.70	8,186.25
Anticipated crop nutrient removal	285.60	72.80	184.80	0.00
Actual crop nutrient removal	332.11	58.61	280.01	1,595.41
Nutrient balance	-45.75	7.62	116.69	6,590.84
Applied to removed ratio	0.86	1.13	1.42	5.13

Fresh water applied	
71,214,180.00	*gallons*
2,622.58	*acre-inches*
35.44	*inches/acre*

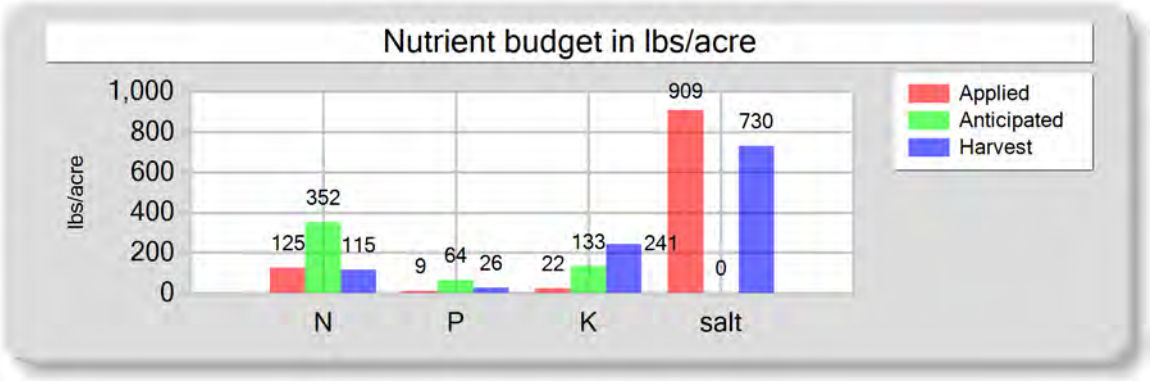
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 209W - 09/12/2022: Rye Grass

Field name: Field 209W Crop: Rye Grass Plant date: 09/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	113.49	8.87	22.46	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	4.99	0.00	0.00	909.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	125.48	8.87	22.46	909.25
Anticipated crop nutrient removal	352.00	64.00	132.80	0.00
Actual crop nutrient removal	115.20	26.08	241.26	730.30
Nutrient balance	10.29	-17.22	-218.80	178.95
Applied to removed ratio	1.09	0.34	0.09	1.25

Fresh water applied	
40,099,680.00	*gallons*
1,476.73	*acre-inches*
19.96	*inches/acre*

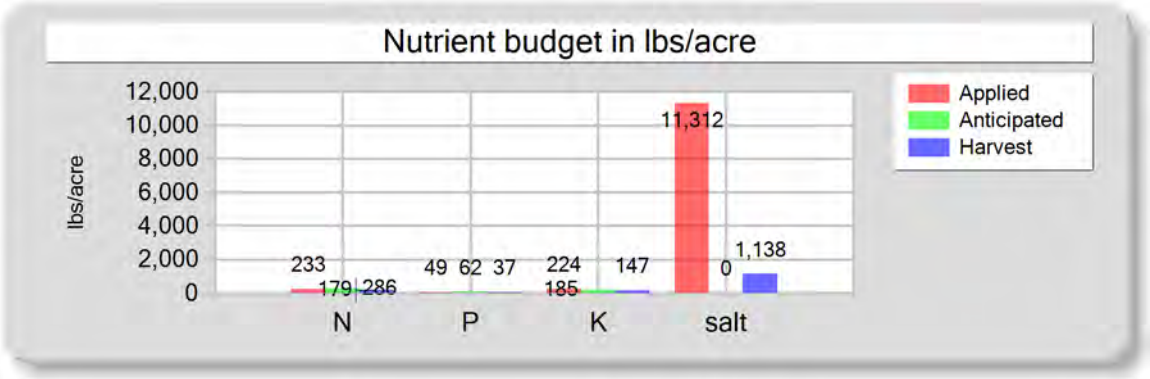
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 209W - 06/11/2023: Corn, silage

Field name: Field 209W Crop: Corn, silage Plant date: 06/11/2023



	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	46.71	10.86	1.92	0.00
Dry manure	165.82	38.03	222.11	9,112.41
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	12.98	0.00	0.00	2,200.07
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	232.51	48.89	224.03	11,312.48
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	179.07	36.87	147.47	1,137.62
Nutrient balance	53.44	12.02	76.56	10,174.86
Applied to removed ratio	1.30	1.33	1.52	9.94

Fresh water applied	
75,643,200.00	*gallons*
2,785.68	*acre-inches*
37.64	*inches/acre*

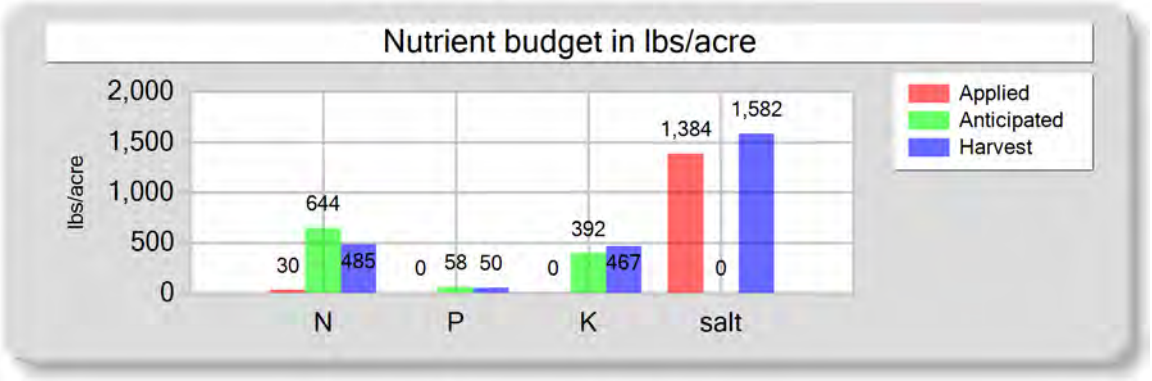
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 214 - 10/01/2021: Alfalfa, hay

Field name: Field 214 Crop: Alfalfa, hay Plant date: 10/01/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	15.59	0.00	0.00	1,384.27
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	29.59	0.00	0.00	1,384.27
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	484.52	50.43	466.51	1,581.85
Nutrient balance	-454.93	-50.43	-466.51	-197.58
Applied to removed ratio	0.06	0.00	0.00	0.88

Fresh water applied	
101,467,800.00	*gallons*
3,736.71	*acre-inches*
45.02	*inches/acre*

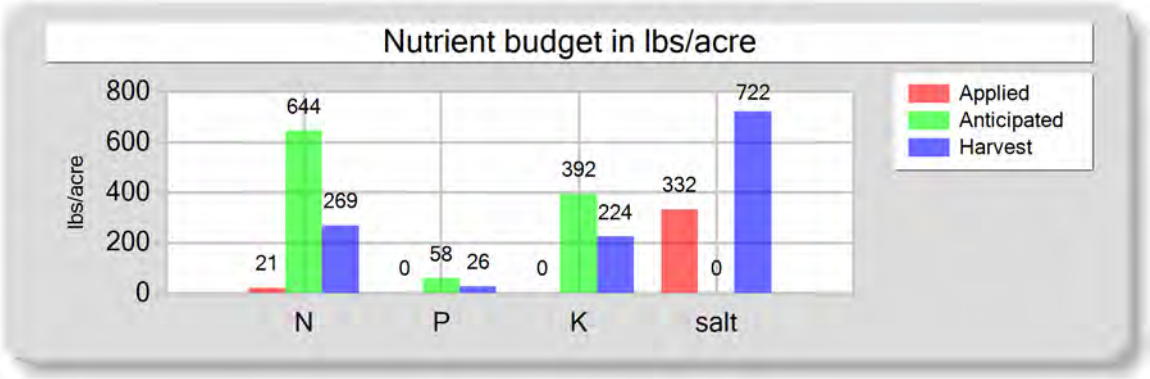
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 215 - 09/26/2019: Alfalfa, hay

Field name: Field 215 Crop: Alfalfa, hay Plant date: 09/26/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.86	0.00	0.00	332.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	20.86	0.00	0.00	332.13
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	268.68	26.15	223.60	722.11
Nutrient balance	-247.82	-26.15	-223.60	-389.99
Applied to removed ratio	0.08	0.00	0.00	0.46

Fresh water applied	
75,445,020.00	*gallons*
2,778.38	*acre-inches*
28.06	*inches/acre*

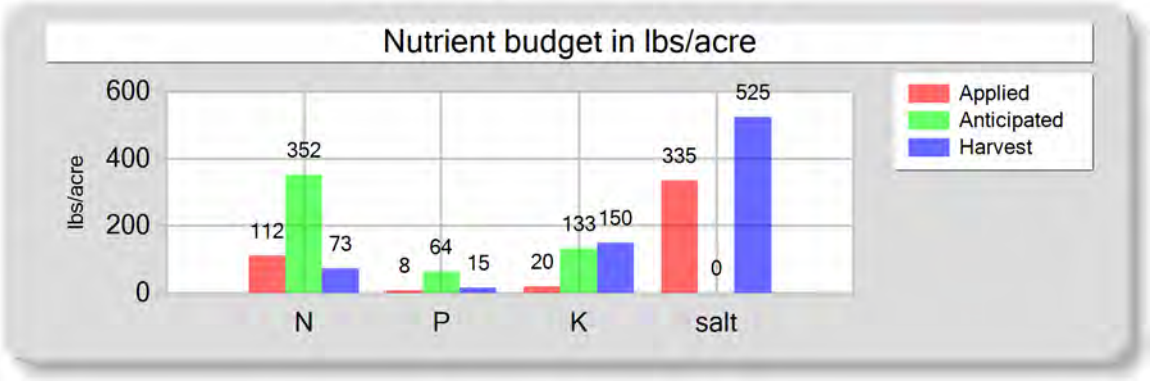
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 216 - 10/13/2022: Rye Grass

Field name: Field 216 Crop: Rye Grass Plant date: 10/13/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	98.91	7.73	19.58	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	5.71	0.00	0.00	335.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	111.62	7.73	19.58	335.16
Anticipated crop nutrient removal	352.00	64.00	132.80	0.00
Actual crop nutrient removal	73.27	15.34	149.94	524.80
Nutrient balance	38.35	-7.61	-130.37	-189.64
Applied to removed ratio	1.52	0.50	0.13	0.64

Fresh water applied	
49,010,100.00	*gallons*
1,804.88	*acre-inches*
20.75	*inches/acre*

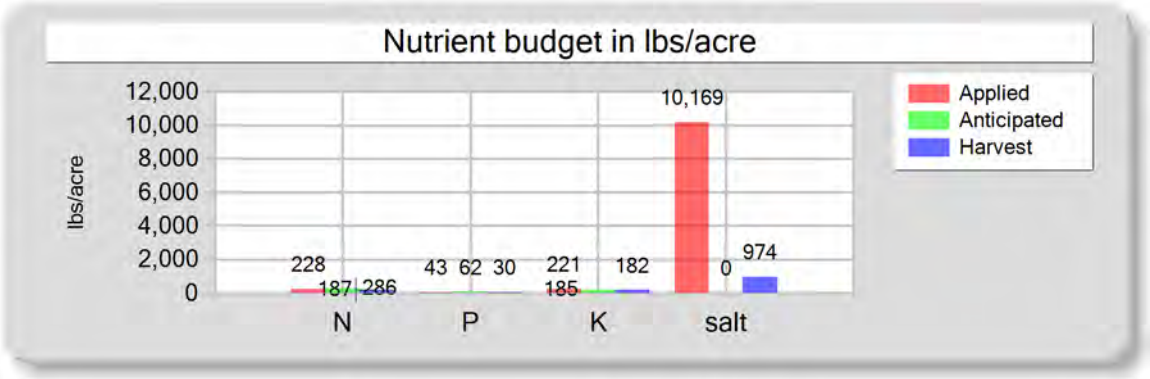
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 216 - 06/12/2023: Corn, silage

Field name: Field 216 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	43.12	5.67	2.06	0.00
Dry manure	163.56	37.51	219.08	8,988.30
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	14.51	0.00	0.00	1,180.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	228.19	43.18	221.14	10,168.68
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	187.25	30.36	182.18	974.18
Nutrient balance	40.94	12.82	38.96	9,194.50
Applied to removed ratio	1.22	1.42	1.21	10.44

Fresh water applied	
90,636,060.00	*gallons*
3,337.82	*acre-inches*
38.37	*inches/acre*

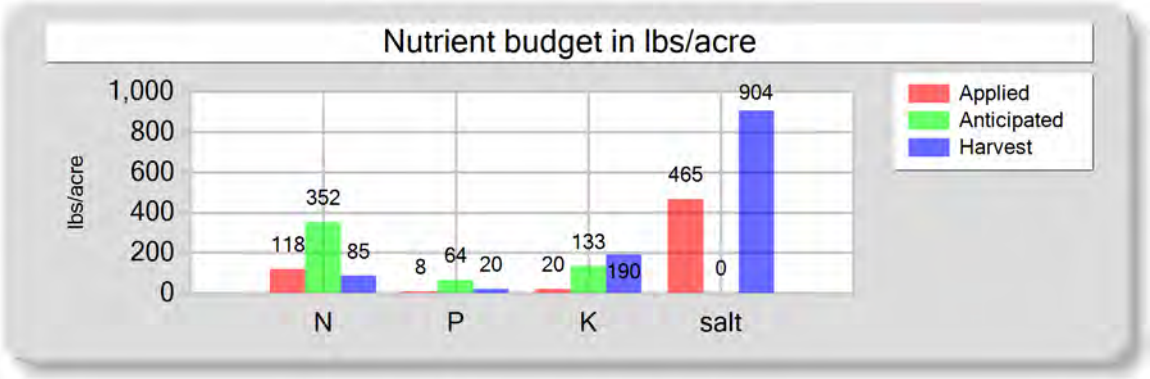
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 217 - 10/12/2022: Rye Grass

Field name: Field 217 Crop: Rye Grass Plant date: 10/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	101.65	7.94	20.12	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.12	0.00	0.00	464.65
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	117.77	7.94	20.12	464.65
Anticipated crop nutrient removal	352.00	64.00	132.80	0.00
Actual crop nutrient removal	84.84	20.20	189.88	904.13
Nutrient balance	32.93	-12.26	-169.76	-439.48
Applied to removed ratio	1.39	0.39	0.11	0.51

Fresh water applied	
25,478,400.00	*gallons*
938.28	*acre-inches*
18.40	*inches/acre*

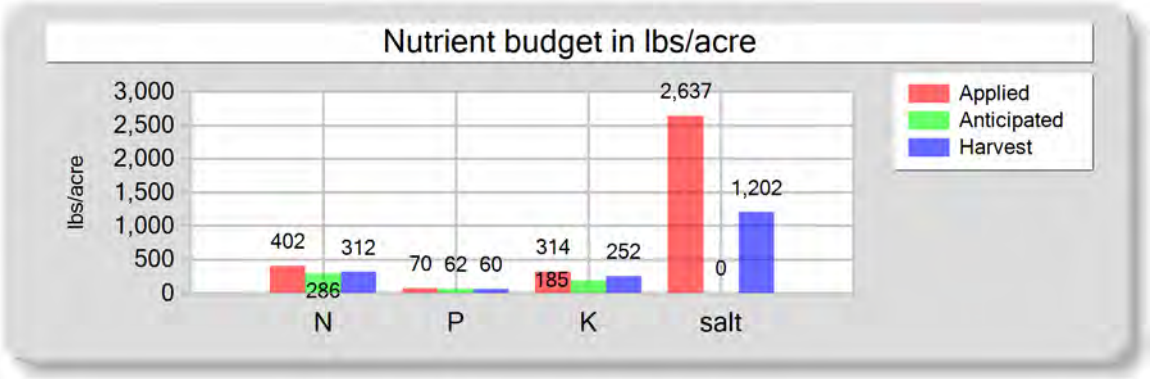
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 217 - 06/23/2023: Corn, silage

Field name: Field 217 Crop: Corn, silage Plant date: 06/23/2023



	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	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	328.64	64.14	312.15	1,417.18
Fresh water	23.56	0.00	0.00	1,219.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	402.32	69.81	314.21	2,637.15
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	311.65	59.93	251.72	1,202.26
Nutrient balance	90.67	9.88	62.49	1,434.88
Applied to removed ratio	1.29	1.16	1.25	2.19

Fresh water applied	
59,255,520.00	*gallons*
2,182.18	*acre-inches*
42.79	*inches/acre*

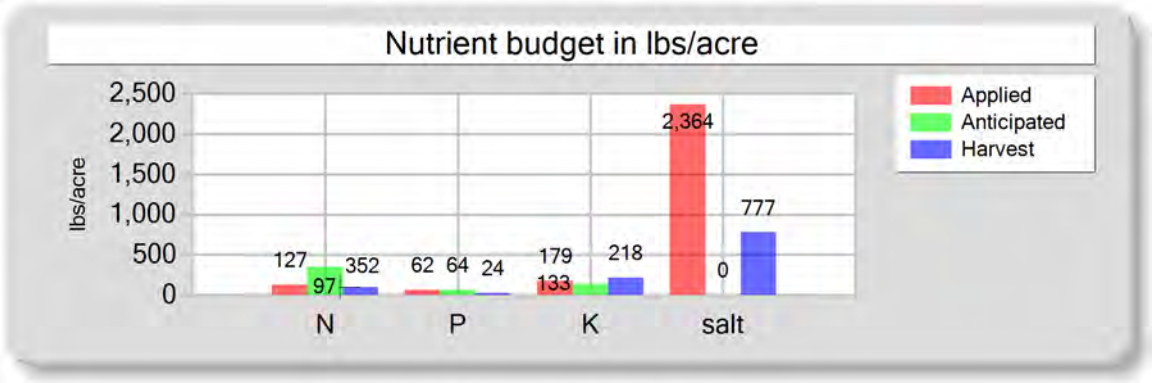
Process wastewater applied	
3,733,200.00	*gallons*
137.48	*acre-inches*
2.70	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 218 - 09/10/2022: Rye Grass

Field name: Field 218 Crop: Rye Grass Plant date: 09/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	111.11	62.00	178.94	1,893.42
Fresh water	9.38	0.00	0.00	470.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	127.49	62.00	178.94	2,364.35
Anticipated crop nutrient removal	352.00	64.00	132.80	0.00
Actual crop nutrient removal	97.03	23.67	217.73	777.47
Nutrient balance	30.45	38.34	-38.79	1,586.87
Applied to removed ratio	1.31	2.62	0.82	3.04

Fresh water applied	
45,265,080.00	*gallons*
1,666.96	*acre-inches*
20.58	*inches/acre*

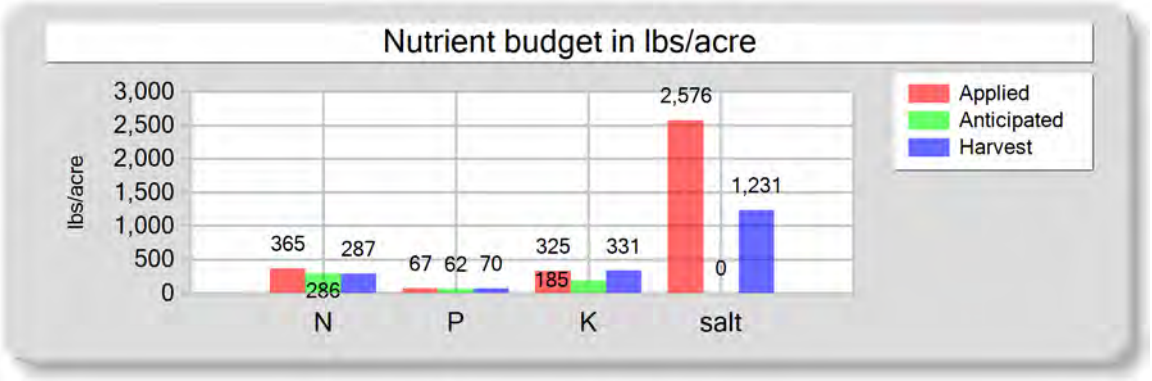
Process wastewater applied	
4,039,200.00	*gallons*
148.75	*acre-inches*
1.84	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 218 - 06/14/2023: Corn, silage

Field name: Field 218 Crop: Corn, silage Plant date: 06/14/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	296.76	61.50	323.43	1,689.64
Fresh water	17.85	0.00	0.00	886.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	364.73	67.17	325.49	2,576.49
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	286.84	70.12	331.46	1,231.14
Nutrient balance	77.88	-2.94	-5.98	1,345.36
Applied to removed ratio	1.27	0.96	0.98	2.09

Fresh water applied	
91,193,160.00	*gallons*
3,358.33	*acre-inches*
41.46	*inches/acre*

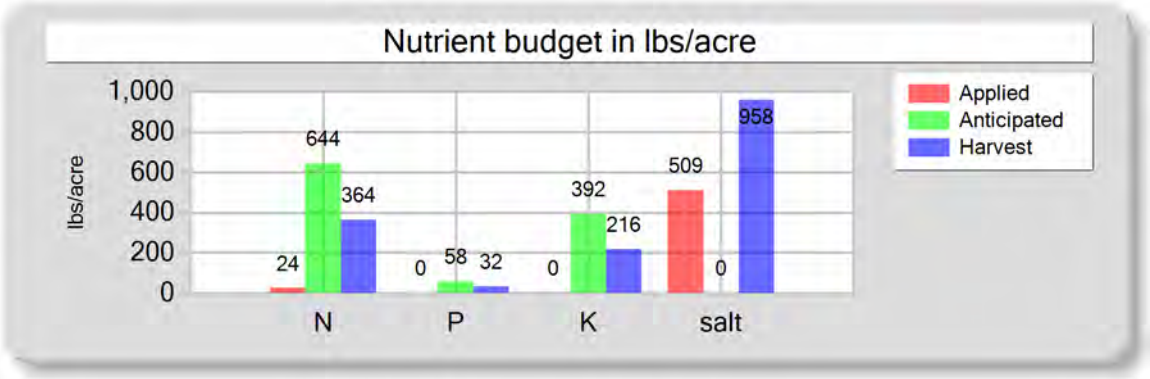
Process wastewater applied	
7,833,600.00	*gallons*
288.48	*acre-inches*
3.56	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 219 - 10/01/2021: Alfalfa, hay

Field name: Field 219 Crop: Alfalfa, hay Plant date: 10/01/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	10.31	0.00	0.00	509.30
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	24.31	0.00	0.00	509.30
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	363.80	31.73	216.47	958.30
Nutrient balance	-339.49	-31.73	-216.47	-449.00
Applied to removed ratio	0.07	0.00	0.00	0.53

Fresh water applied	
83,973,840.00	*gallons*
3,092.47	*acre-inches*
42.95	*inches/acre*

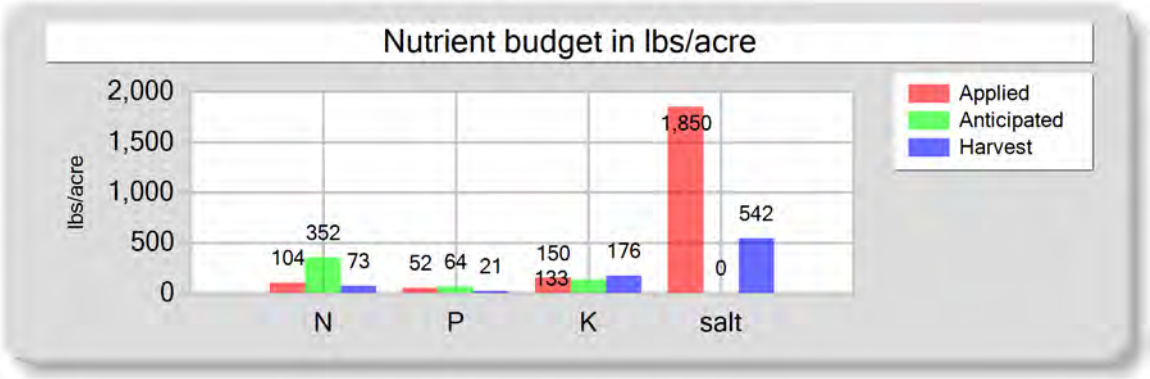
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 220 - 10/13/2022: Rye Grass

Field name: Field 220 Crop: Rye Grass Plant date: 10/13/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	93.40	52.12	150.42	1,591.61
Fresh water	3.33	0.00	0.00	258.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	103.73	52.12	150.42	1,850.06
Anticipated crop nutrient removal	352.00	64.00	132.80	0.00
Actual crop nutrient removal	73.41	20.75	175.55	541.80
Nutrient balance	30.32	31.37	-25.13	1,308.25
Applied to removed ratio	1.41	2.51	0.86	3.41

Fresh water applied	
24,180,000.00	*gallons*
890.47	*acre-inches*
12.20	*inches/acre*

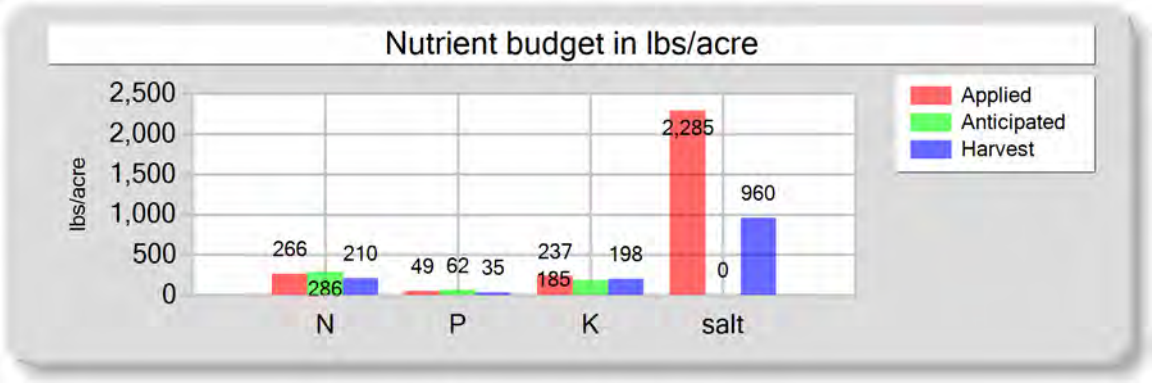
Process wastewater applied	
3,060,000.00	*gallons*
112.69	*acre-inches*
1.54	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 220 - 06/13/2023: Corn, silage

Field name: Field 220 Crop: Corn, silage Plant date: 06/13/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	204.29	43.40	234.90	1,284.00
Fresh water	11.38	0.00	0.00	1,001.49
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	265.79	49.07	236.96	2,285.48
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	209.54	34.92	197.90	960.40
Nutrient balance	56.25	14.14	39.06	1,325.08
Applied to removed ratio	1.27	1.40	1.20	2.38

Fresh water applied	
71,887,920.00	*gallons*
2,647.39	*acre-inches*
38.93	*inches/acre*

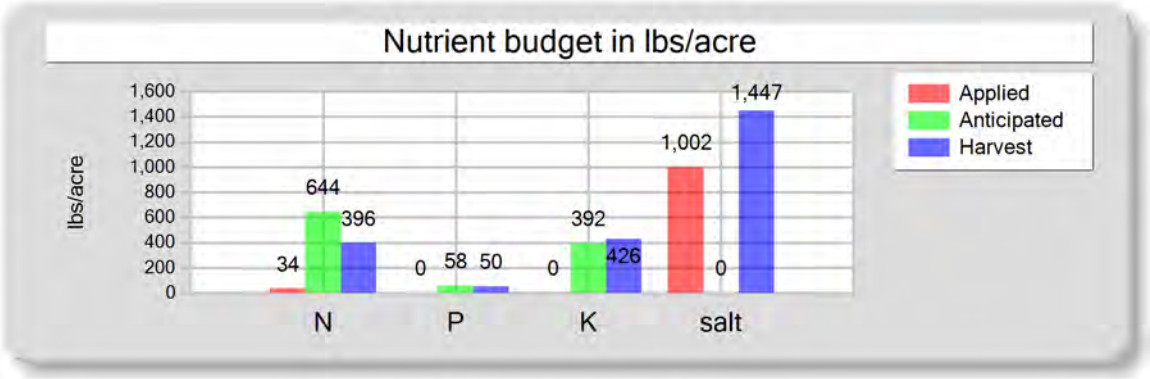
Process wastewater applied	
5,140,800.00	*gallons*
189.32	*acre-inches*
2.78	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 221 - 10/12/2021: Alfalfa, hay

Field name: Field 221 Crop: Alfalfa, hay Plant date: 10/12/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	20.17	0.00	0.00	1,001.73
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	34.17	0.00	0.00	1,001.73
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	396.01	50.34	426.21	1,446.92
Nutrient balance	-361.84	-50.34	-426.21	-445.19
Applied to removed ratio	0.09	0.00	0.00	0.69

Fresh water applied	
101,780,160.00	*gallons*
3,748.22	*acre-inches*
46.85	*inches/acre*

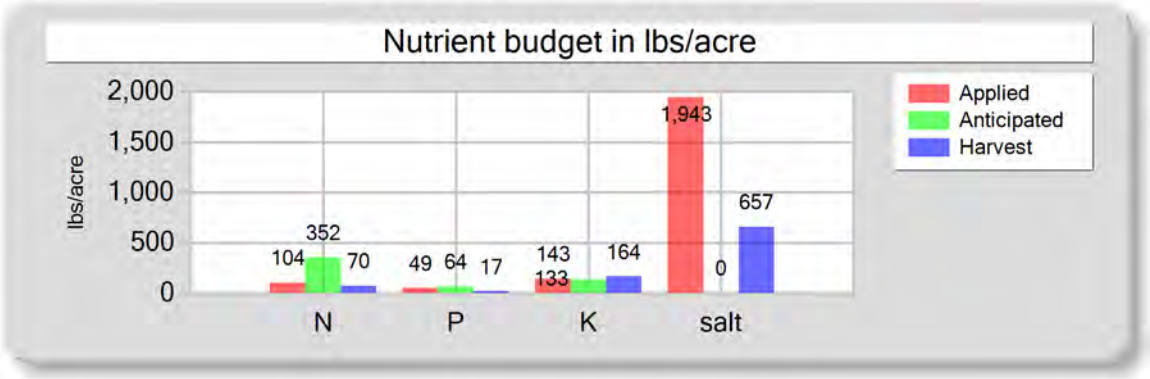
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 222 - 09/09/2022: Rye Grass

Field name: Field 222 Crop: Rye Grass Plant date: 09/09/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	88.63	49.46	142.74	1,510.44
Fresh water	8.73	0.00	0.00	432.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	104.36	49.46	142.74	1,942.61
Anticipated crop nutrient removal	352.00	64.00	132.80	0.00
Actual crop nutrient removal	70.00	16.80	163.80	656.60
Nutrient balance	34.36	32.66	-21.06	1,286.01
Applied to removed ratio	1.49	2.94	0.87	2.96

Fresh water applied	
44,680,440.00	*gallons*
1,645.43	*acre-inches*
20.57	*inches/acre*

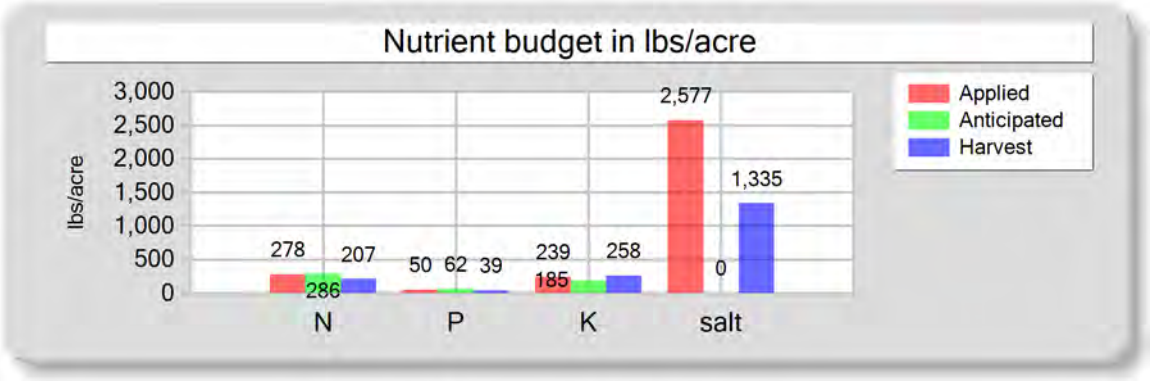
Process wastewater applied	
3,182,400.00	*gallons*
117.20	*acre-inches*
1.46	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 222 - 06/14/2023: Corn, silage

Field name: Field 222 Crop: Corn, silage Plant date: 06/14/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	207.49	43.95	237.16	1,290.06
Fresh water	19.96	0.00	0.00	1,286.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	277.57	49.62	239.22	2,576.54
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	206.66	38.75	258.32	1,335.00
Nutrient balance	70.92	10.88	-19.10	1,241.54
Applied to removed ratio	1.34	1.28	0.93	1.93

Fresh water applied	
87,165,480.00	*gallons*
3,210.01	*acre-inches*
40.13	*inches/acre*

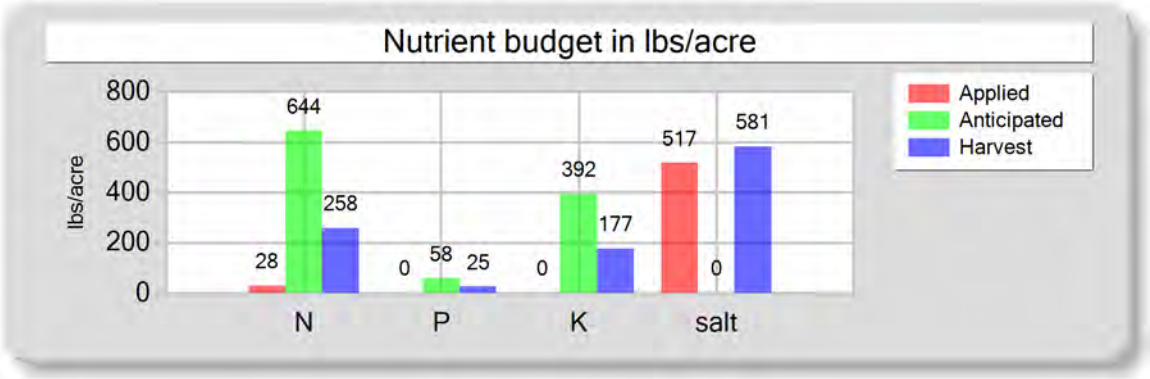
Process wastewater applied	
6,058,800.00	*gallons*
223.13	*acre-inches*
2.79	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 223 - 09/29/2020: Alfalfa, hay

Field name: Field 223 Crop: Alfalfa, hay Plant date: 09/29/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	13.62	0.00	0.00	516.61
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	27.62	0.00	0.00	516.61
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	257.86	24.63	177.04	581.15
Nutrient balance	-230.24	-24.63	-177.04	-64.54
Applied to removed ratio	0.11	0.00	0.00	0.89

Fresh water applied	
31,870,440.00	*gallons*
1,173.68	*acre-inches*
31.72	*inches/acre*

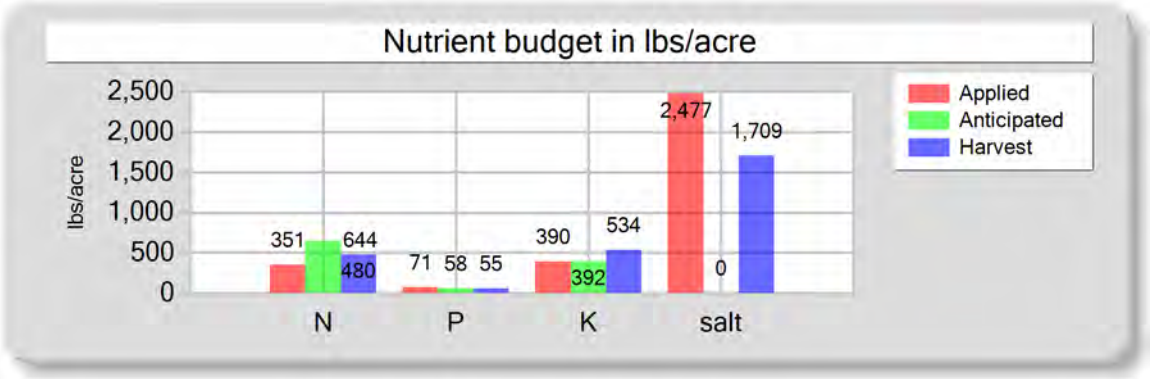
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 224 - 11/19/2021: Alfalfa, hay

Field name: Field 224 Crop: Alfalfa, hay Plant date: 11/19/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	326.76	70.57	390.44	2,047.56
Fresh water	10.47	0.00	0.00	429.47
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	351.23	70.57	390.44	2,477.03
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	480.39	55.43	534.14	1,708.77
Nutrient balance	-129.15	15.14	-143.70	768.26
Applied to removed ratio	0.73	1.27	0.73	1.45

Fresh water applied	
79,080,000.00	*gallons*
2,912.25	*acre-inches*
46.23	*inches/acre*

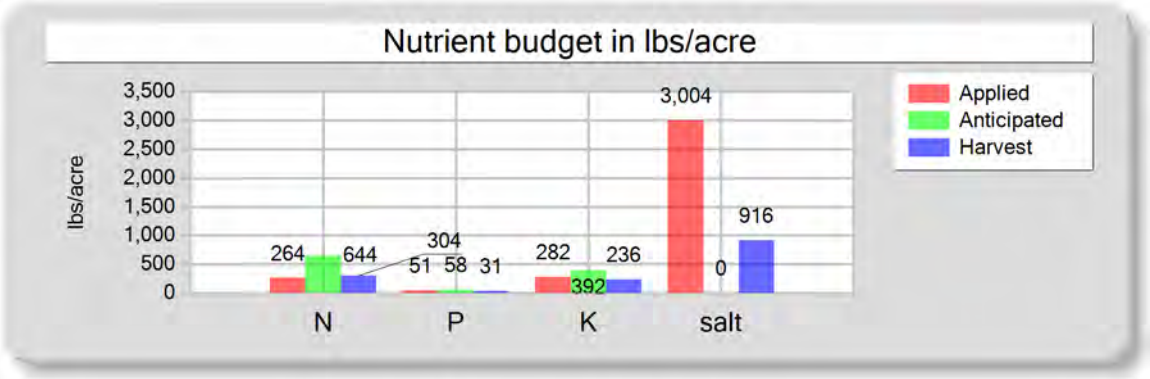
Process wastewater applied	
7,405,200.00	*gallons*
272.71	*acre-inches*
4.33	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 225 - 10/01/2020: Alfalfa, hay

Field name: Field 225 Crop: Alfalfa, hay Plant date: 10/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	233.26	50.67	282.14	1,488.94
Fresh water	16.67	0.00	0.00	1,514.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	263.94	50.67	282.14	3,003.85
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	303.62	30.94	236.02	916.13
Nutrient balance	-39.69	19.73	46.11	2,087.72
Applied to removed ratio	0.87	1.64	1.20	3.28

Fresh water applied	
96,192,720.00	*gallons*
3,542.45	*acre-inches*
40.72	*inches/acre*

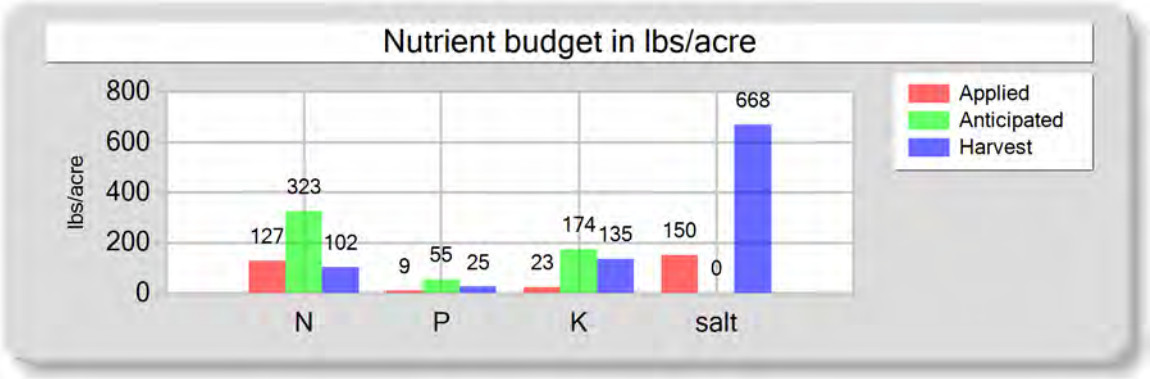
Process wastewater applied	
7,466,400.00	*gallons*
274.96	*acre-inches*
3.16	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 226 - 11/30/2022: Wheat, silage, soft dough

Field name: Field 226 Crop: Wheat, silage, soft dough Plant date: 11/30/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	116.64	9.11	23.09	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.67	0.00	0.00	150.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	127.31	9.11	23.09	150.33
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	102.00	24.81	135.08	668.11
Nutrient balance	25.31	-15.70	-111.99	-517.78
Applied to removed ratio	1.25	0.37	0.17	0.23

Fresh water applied	
21,090,000.00	*gallons*
776.67	*acre-inches*
16.18	*inches/acre*

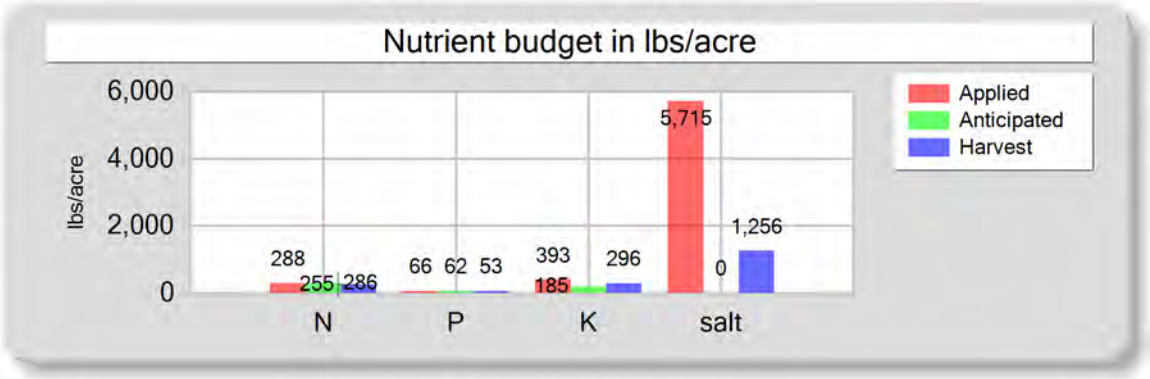
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 226 - 06/23/2023: Corn, silage

Field name: Field 226 Crop: Corn, silage Plant date: 06/23/2023



	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	46.71	10.87	1.92	0.00
Dry manure	218.46	54.93	391.19	4,840.17
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	15.70	0.00	0.00	874.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.87	65.80	393.11	5,715.02
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	254.92	53.36	296.42	1,255.86
Nutrient balance	32.95	12.44	96.70	4,459.17
Applied to removed ratio	1.13	1.23	1.33	4.55

Fresh water applied	
50,211,420.00	*gallons*
1,849.12	*acre-inches*
38.52	*inches/acre*

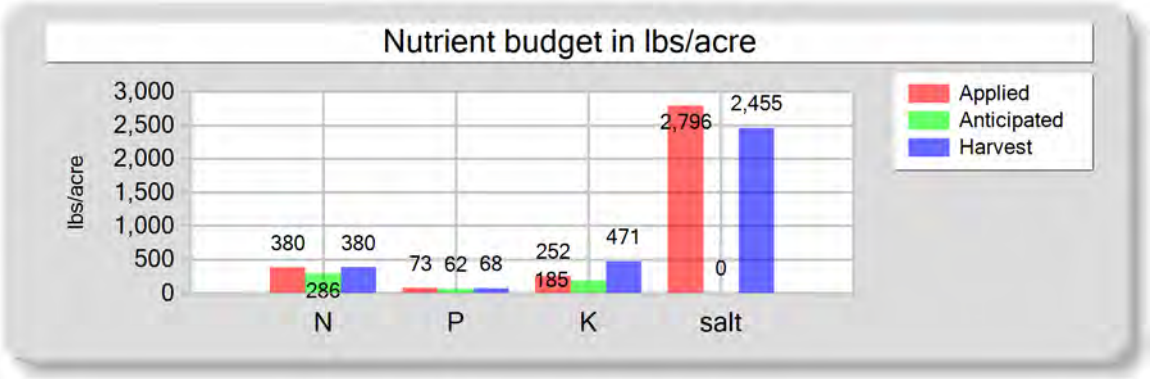
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 227E - 04/22/2023: Corn, silage

Field name: Field 227E Crop: Corn, silage Plant date: 04/22/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	307.89	67.03	250.00	1,040.15
Fresh water	14.60	0.00	0.00	1,756.16
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	379.61	72.70	252.06	2,796.30
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	379.68	68.34	470.80	2,455.44
Nutrient balance	-0.07	4.36	-218.74	340.87
Applied to removed ratio	1.00	1.06	0.54	1.14

Fresh water applied	
81,962,400.00	*gallons*
3,018.40	*acre-inches*
40.79	*inches/acre*

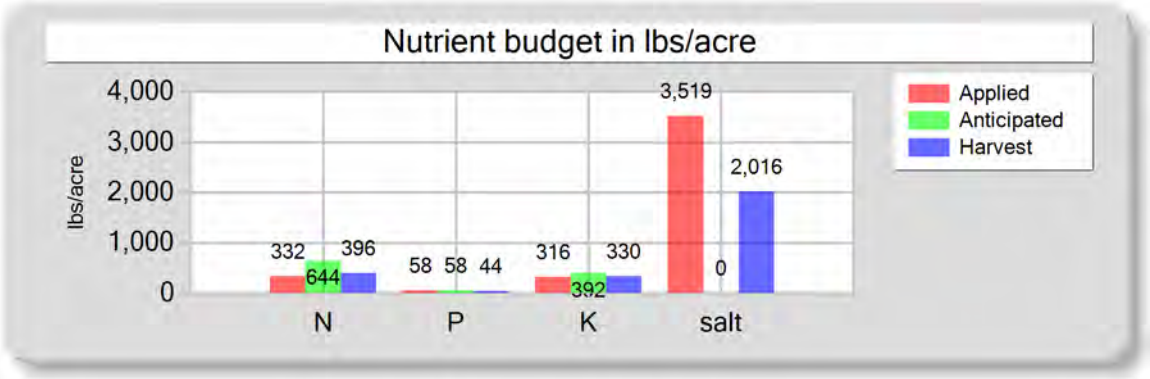
Process wastewater applied	
4,207,500.00	*gallons*
154.95	*acre-inches*
2.09	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 227W - 09/26/2020: Alfalfa, hay

Field name: Field 227W Crop: Alfalfa, hay Plant date: 09/26/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	268.62	57.58	315.86	1,642.52
Fresh water	49.20	0.00	0.00	1,876.63
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	331.81	57.58	315.86	3,519.16
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	395.96	44.34	330.22	2,015.73
Nutrient balance	-64.15	13.24	-14.36	1,503.43
Applied to removed ratio	0.84	1.30	0.96	1.75

Fresh water applied	
84,734,660.00	*gallons*
3,120.49	*acre-inches*
50.33	*inches/acre*

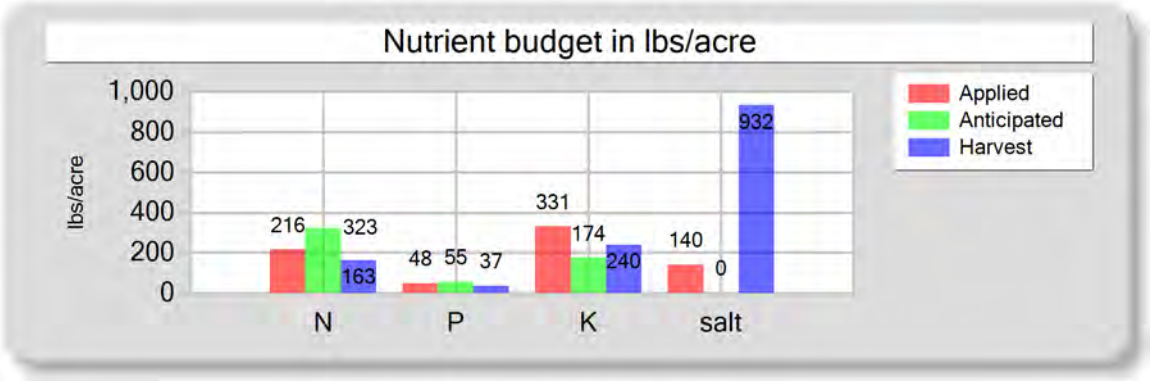
Process wastewater applied	
5,814,000.00	*gallons*
214.11	*acre-inches*
3.45	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 228 - 11/30/2022: Wheat, silage, soft dough

Field name: Field 228 Crop: Wheat, silage, soft dough Plant date: 11/30/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	205.38	47.89	330.63	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.41	0.00	0.00	139.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	215.79	47.89	330.63	139.76
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	163.46	36.69	240.18	932.38
Nutrient balance	52.33	11.20	90.45	-792.62
Applied to removed ratio	1.32	1.31	1.38	0.15

Fresh water applied	
29,820,000.00	*gallons*
1,098.17	*acre-inches*
15.04	*inches/acre*

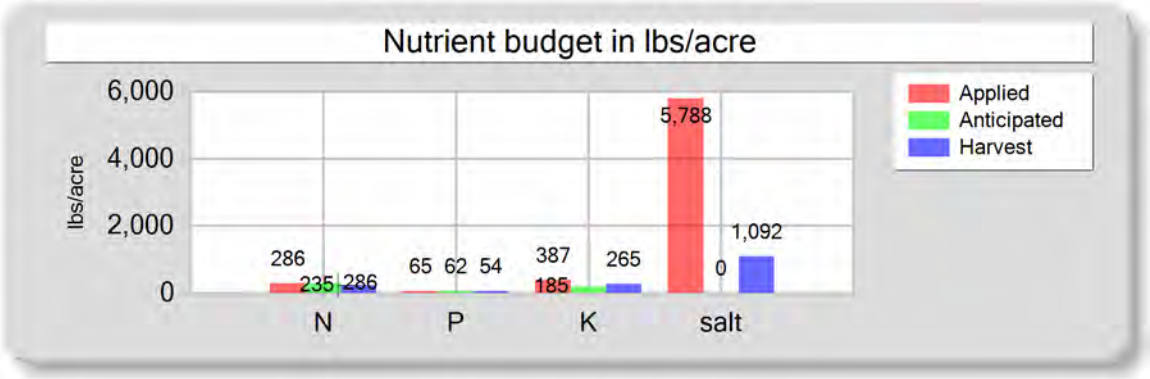
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 228 - 06/22/2023: Corn, silage

Field name: Field 228 Crop: Corn, silage Plant date: 06/22/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	46.71	10.86	1.92	0.00
Dry manure	217.12	54.43	385.55	5,045.55
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	15.31	0.00	0.00	742.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.13	65.29	387.47	5,787.96
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	235.03	54.24	265.16	1,091.97
Nutrient balance	51.11	11.05	122.31	4,696.00
Applied to removed ratio	1.22	1.20	1.46	5.30

Fresh water applied	
79,044,600.00	*gallons*
2,910.94	*acre-inches*
39.88	*inches/acre*

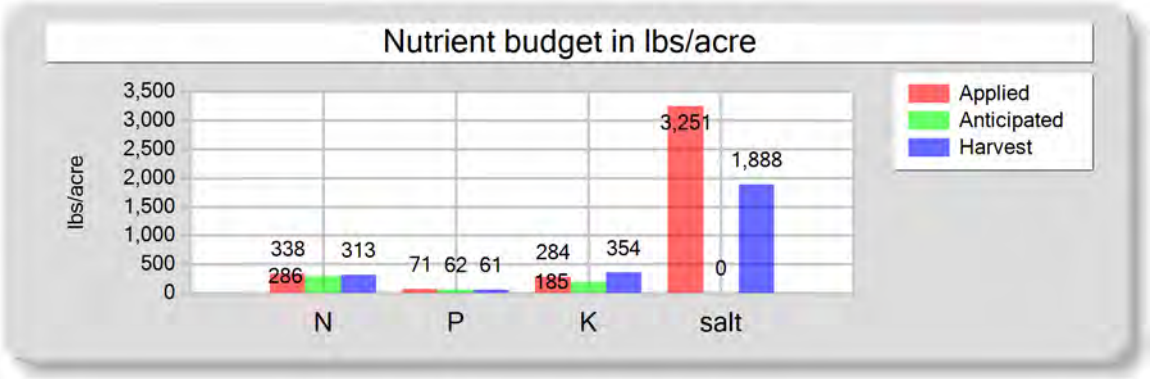
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 229E - 04/24/2023: Corn, silage

Field name: Field 229E Crop: Corn, silage Plant date: 04/24/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	267.04	64.99	281.80	1,558.35
Fresh water	14.07	0.00	0.00	1,692.29
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	338.23	70.66	283.86	3,250.64
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	313.32	61.30	354.19	1,888.08
Nutrient balance	24.91	9.36	-70.33	1,362.56
Applied to removed ratio	1.08	1.15	0.80	1.72

Fresh water applied	
58,702,800.00	*gallons*
2,161.82	*acre-inches*
39.31	*inches/acre*

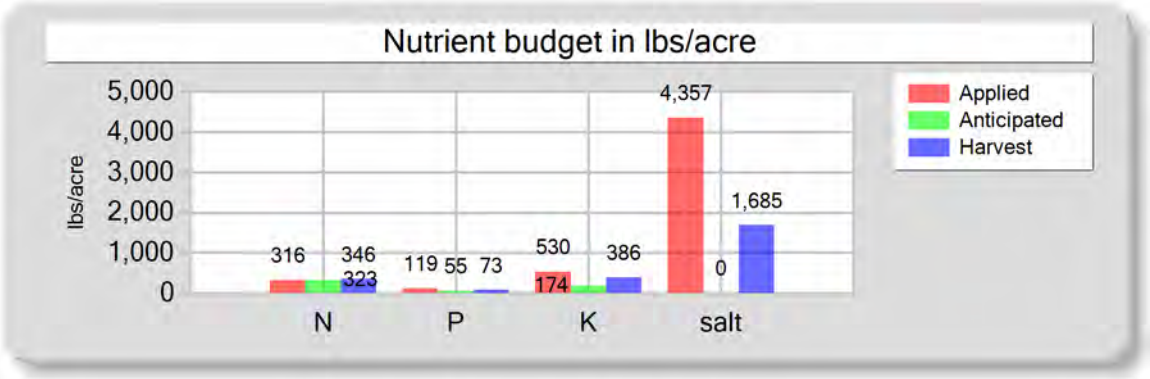
Process wastewater applied	
5,470,400.00	*gallons*
201.46	*acre-inches*
3.66	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 229W - 11/21/2022: Wheat, silage, soft dough

Field name: Field 229W Crop: Wheat, silage, soft dough Plant date: 11/21/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	305.20	119.48	529.76	4,190.64
Fresh water	4.06	0.00	0.00	166.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	316.26	119.48	529.76	4,356.92
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	345.54	72.74	386.46	1,685.13
Nutrient balance	-29.28	46.73	143.30	2,671.79
Applied to removed ratio	0.92	1.64	1.37	2.59

Fresh water applied	
26,730,000.00	*gallons*
984.38	*acre-inches*
17.90	*inches/acre*

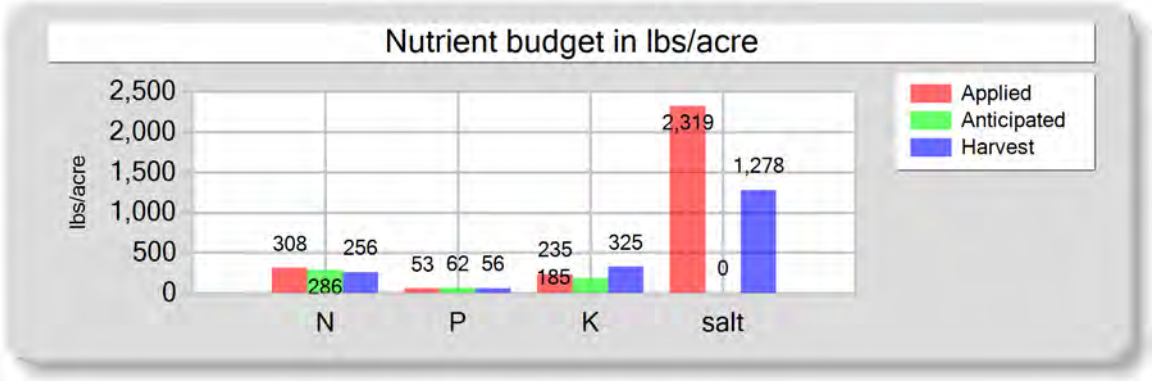
Process wastewater applied	
10,098,000.00	*gallons*
371.88	*acre-inches*
6.76	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 229W - 06/13/2023: Corn, silage

Field name: Field 229W Crop: Corn, silage Plant date: 06/13/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	244.79	47.77	232.50	1,055.60
Fresh water	12.78	0.00	0.00	1,263.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	307.69	53.44	234.56	2,319.15
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	256.06	56.21	324.76	1,277.82
Nutrient balance	51.62	-2.76	-90.20	1,041.33
Applied to removed ratio	1.20	0.95	0.72	1.81

Fresh water applied	
61,616,400.00	*gallons*
2,269.12	*acre-inches*
41.26	*inches/acre*

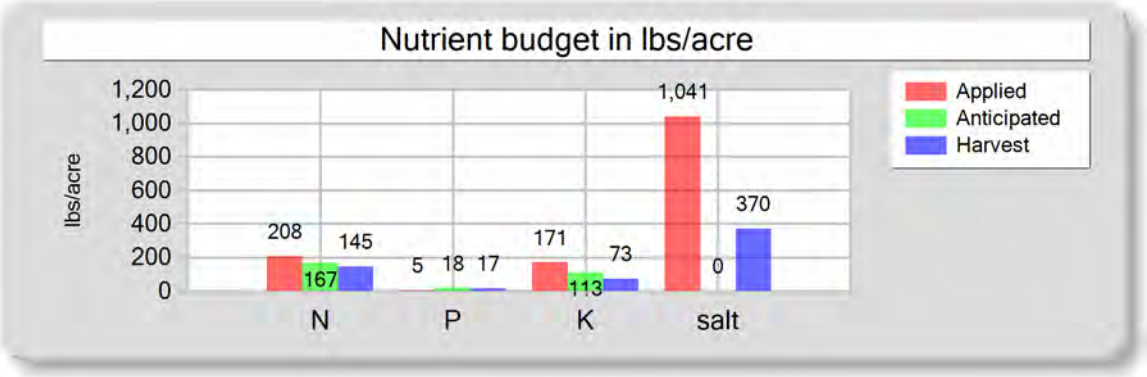
Process wastewater applied	
2,998,800.00	*gallons*
110.44	*acre-inches*
2.01	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 230 - 11/01/2020: Almond, in shell

Field name: Field 230 Crop: Almond, in shell Plant date: 11/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	180.79	4.58	170.75	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	12.93	0.00	0.00	1,041.50
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	207.72	4.58	170.75	1,041.50
Anticipated crop nutrient removal	167.40	18.00	112.50	0.00
Actual crop nutrient removal	144.66	16.79	73.07	370.32
Nutrient balance	63.06	-12.21	97.68	671.18
Applied to removed ratio	1.44	0.27	2.34	2.81

Fresh water applied	
44,305,200.00	*gallons*
1,631.61	*acre-inches*
46.62	*inches/acre*

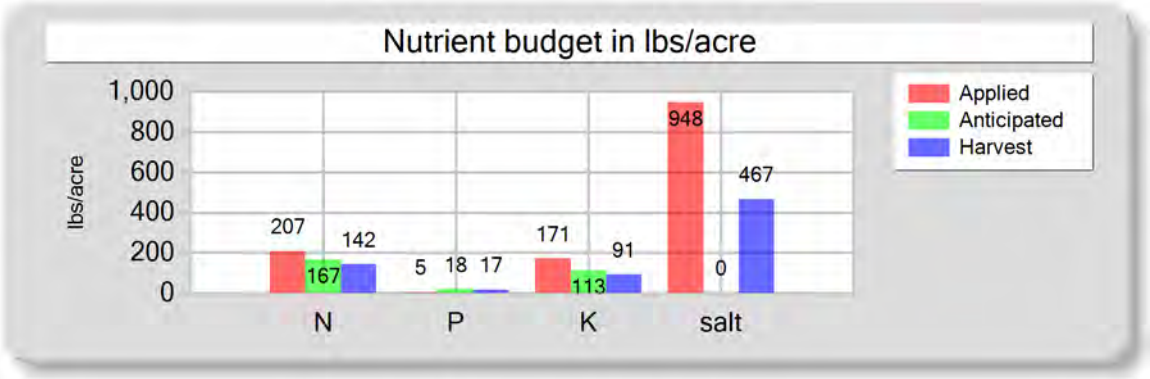
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 231 - 11/01/2020: Almond, in shell

Field name: Field 231 Crop: Almond, in shell Plant date: 11/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	180.79	4.58	170.75	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	11.77	0.00	0.00	948.26
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	206.56	4.58	170.75	948.26
Anticipated crop nutrient removal	167.40	18.00	112.50	0.00
Actual crop nutrient removal	142.40	16.53	91.20	466.74
Nutrient balance	64.16	-11.95	79.55	481.52
Applied to removed ratio	1.45	0.28	1.87	2.03

Fresh water applied	
55,315,200.00	*gallons*
2,037.07	*acre-inches*
42.44	*inches/acre*

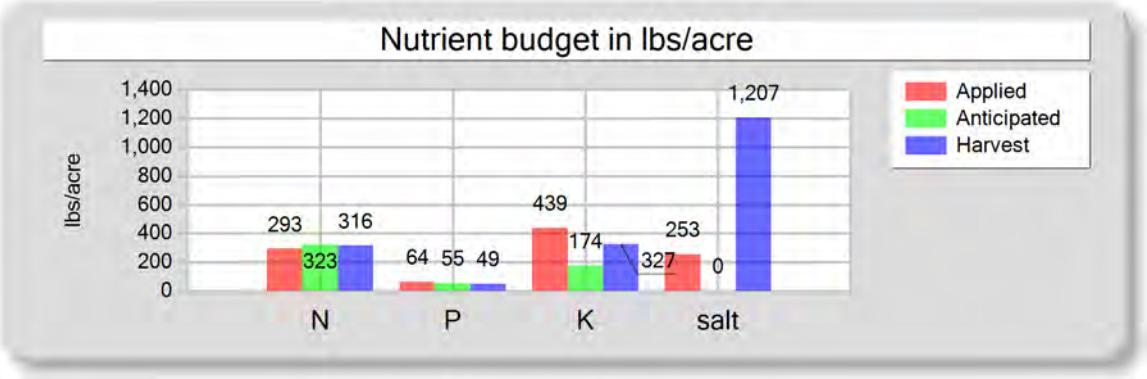
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 232 - 10/14/2022: Wheat, silage, soft dough

Field name: Field 232 Crop: Wheat, silage, soft dough Plant date: 10/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	272.60	63.56	438.84	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	13.51	0.00	0.00	253.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.10	63.56	438.84	253.42
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	315.59	48.84	326.86	1,206.69
Nutrient balance	-22.49	14.72	111.98	-953.27
Applied to removed ratio	0.93	1.30	1.34	0.21

Fresh water applied	
46,475,280.00	*gallons*
1,711.53	*acre-inches*
19.45	*inches/acre*

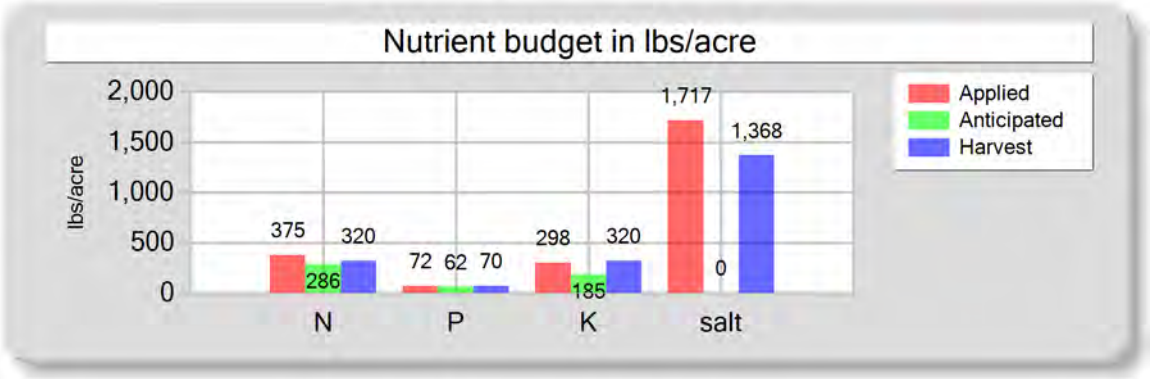
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 232 - 05/20/2023: Corn, silage

Field name: Field 232 Crop: Corn, silage Plant date: 05/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	46.71	10.86	1.92	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	312.23	60.94	296.56	1,346.43
Fresh water	9.04	0.00	0.00	370.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	374.98	71.80	298.48	1,717.02
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	320.32	70.47	320.32	1,367.76
Nutrient balance	54.66	1.33	-21.84	349.26
Applied to removed ratio	1.17	1.02	0.93	1.26

Fresh water applied	
95,316,000.00	*gallons*
3,510.16	*acre-inches*
39.89	*inches/acre*

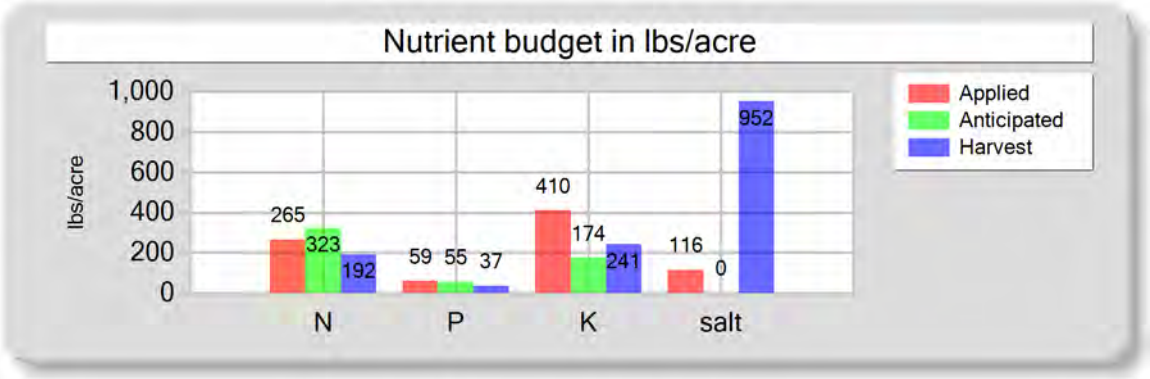
Process wastewater applied	
6,120,000.00	*gallons*
225.38	*acre-inches*
2.56	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 233 - 11/19/2022: Wheat, silage, soft dough

Field name: Field 233 Crop: Wheat, silage, soft dough Plant date: 11/19/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	254.72	59.40	410.07	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.82	0.00	0.00	115.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.54	59.40	410.07	115.60
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	192.01	36.77	241.03	952.11
Nutrient balance	72.53	22.63	169.04	-836.51
Applied to removed ratio	1.38	1.62	1.70	0.12

Fresh water applied	
20,610,000.00	*gallons*
759.00	*acre-inches*
12.44	*inches/acre*

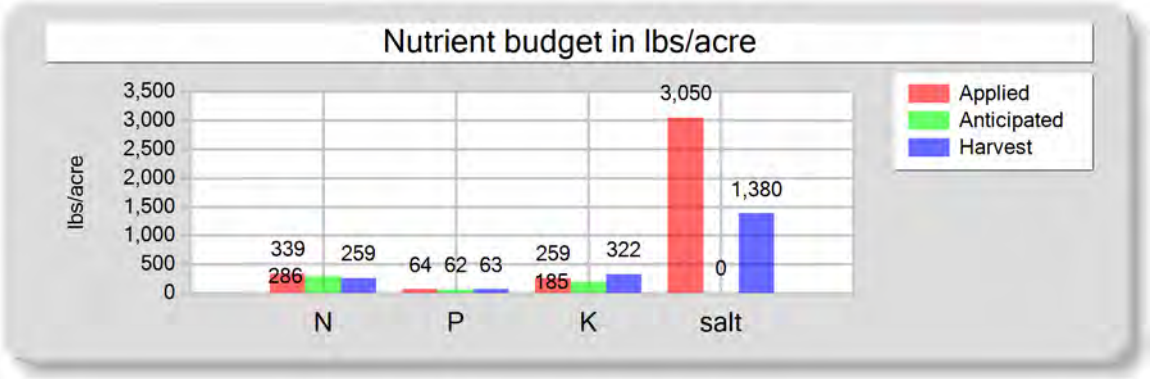
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 233 - 06/21/2023: Corn, silage

Field name: Field 233 Crop: Corn, silage Plant date: 06/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	46.71	10.86	1.92	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	270.26	52.75	256.70	1,165.43
Fresh water	14.53	0.00	0.00	1,884.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	338.50	63.61	258.62	3,049.58
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	258.61	62.91	321.52	1,379.73
Nutrient balance	79.89	0.70	-62.90	1,669.85
Applied to removed ratio	1.31	1.01	0.80	2.21

Fresh water applied	
58,358,880.00	*gallons*
2,149.16	*acre-inches*
35.23	*inches/acre*

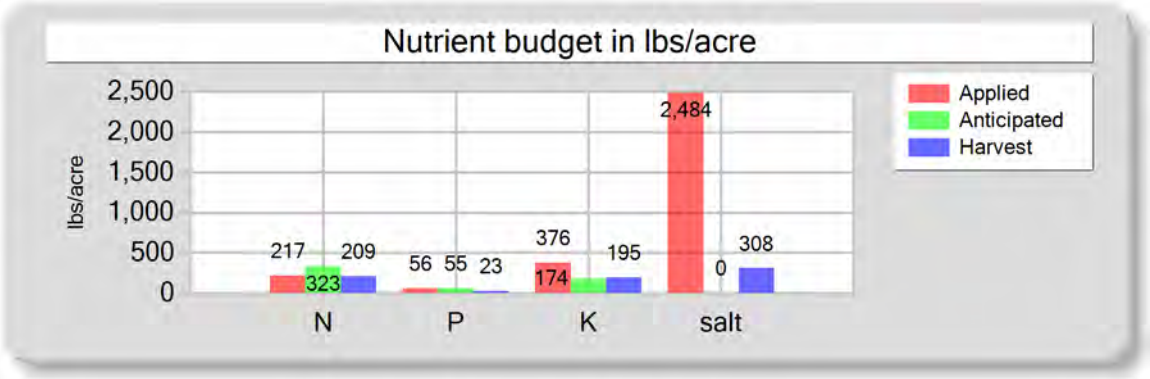
Process wastewater applied	
3,672,000.00	*gallons*
135.23	*acre-inches*
2.22	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 234 - 11/19/2022: Wheat, silage, soft dough

Field name: Field 234 Crop: Wheat, silage, soft dough Plant date: 11/19/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	205.92	55.52	376.29	2,328.86
Fresh water	3.77	0.00	0.00	154.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	216.69	55.52	376.29	2,483.55
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	209.22	22.53	194.74	308.27
Nutrient balance	7.47	32.99	181.56	2,175.28
Applied to removed ratio	1.04	2.46	1.93	8.06

Fresh water applied	
38,430,000.00	*gallons*
1,415.25	*acre-inches*
16.65	*inches/acre*

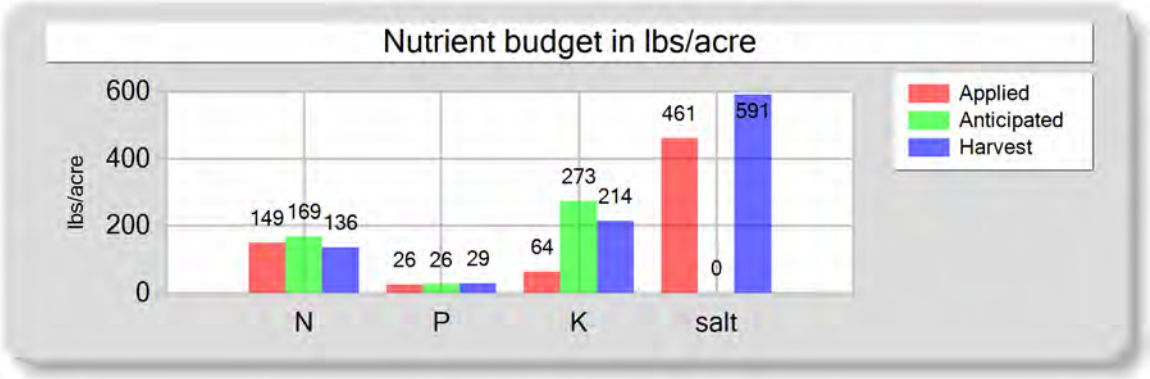
Process wastewater applied	
12,484,800.00	*gallons*
459.77	*acre-inches*
5.41	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 234 - 05/26/2023: Tomato

Field name: Field 234 Crop: Tomato Plant date: 05/26/2023



	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	135.60	25.64	63.87	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.41	0.00	0.00	461.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	149.01	25.64	63.87	461.27
Anticipated crop nutrient removal	169.00	26.00	273.00	0.00
Actual crop nutrient removal	136.10	29.16	213.87	591.06
Nutrient balance	12.91	-3.52	-150.00	-129.79
Applied to removed ratio	1.09	0.88	0.30	0.78

Fresh water applied	
65,315,520.00	*gallons*
2,405.35	*acre-inches*
28.30	*inches/acre*

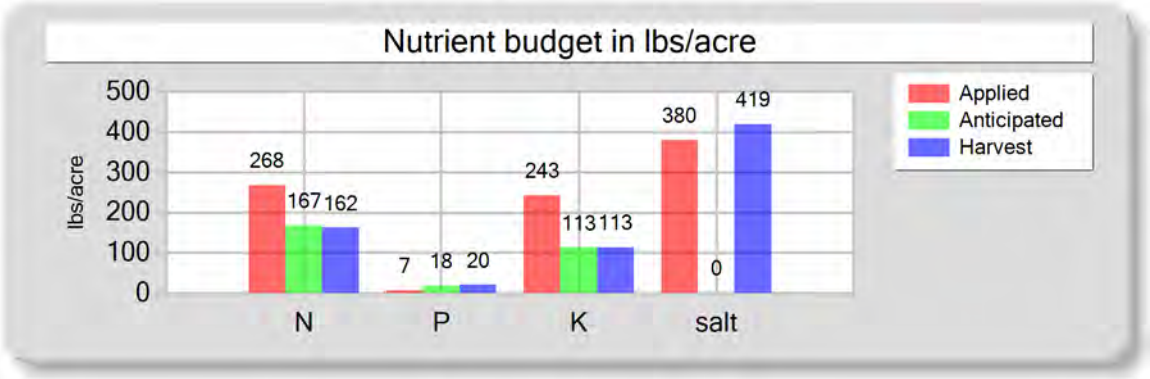
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 235 - 11/01/2019: Almond, in shell

Field name: Field 235 Crop: Almond, in shell Plant date: 11/01/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	244.75	6.61	242.77	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.26	0.00	0.00	379.78
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	268.01	6.61	242.77	379.78
Anticipated crop nutrient removal	167.40	18.00	112.50	0.00
Actual crop nutrient removal	162.14	20.19	113.19	419.39
Nutrient balance	105.87	-13.58	129.58	-39.61
Applied to removed ratio	1.65	0.33	2.14	0.91

Fresh water applied	
89,910,000.00	*gallons*
3,311.08	*acre-inches*
40.88	*inches/acre*

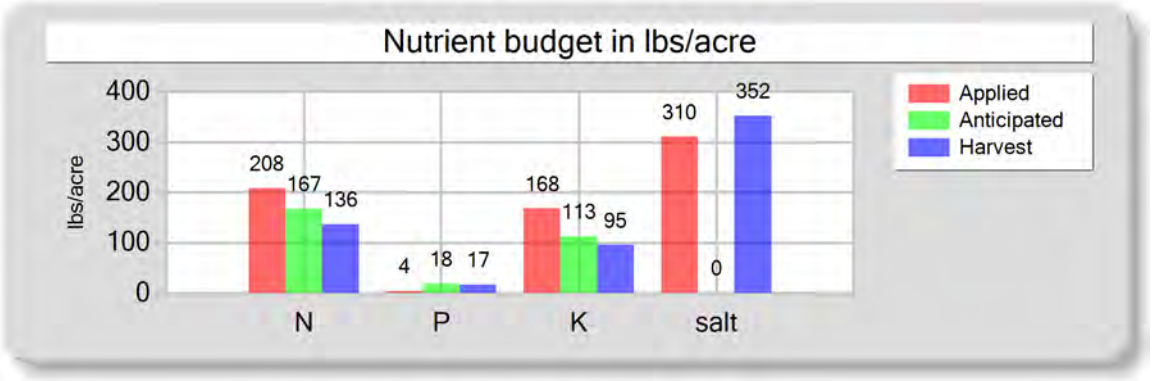
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 236 - 11/01/2020: Almond, in shell

Field name: Field 236 Crop: Almond, in shell Plant date: 11/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	186.90	4.42	167.84	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.57	0.00	0.00	310.50
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	208.47	4.42	167.84	310.50
Anticipated crop nutrient removal	167.40	18.00	112.50	0.00
Actual crop nutrient removal	136.24	16.97	95.11	352.39
Nutrient balance	72.23	-12.55	72.73	-41.90
Applied to removed ratio	1.53	0.26	1.76	0.88

Fresh water applied	
32,670,000.00	*gallons*
1,203.13	*acre-inches*
33.42	*inches/acre*

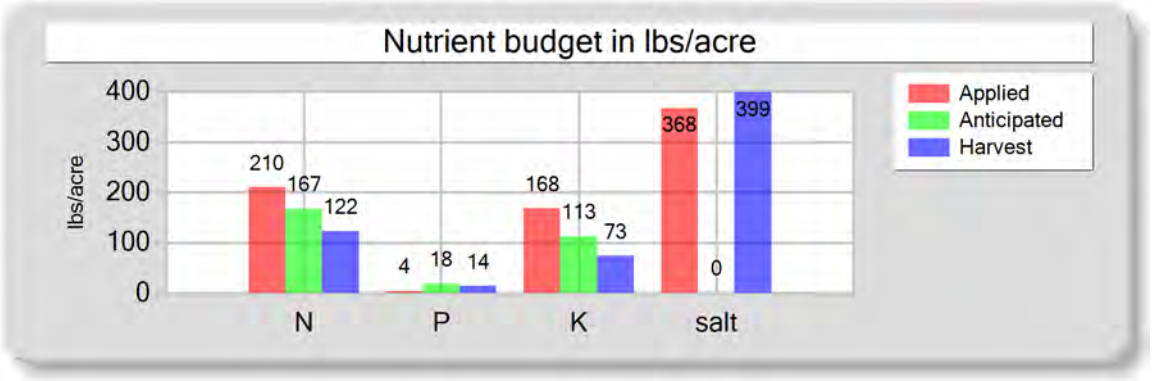
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 237 - 11/01/2020: Almond, in shell

Field name: Field 237 Crop: Almond, in shell Plant date: 11/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	186.90	4.42	167.84	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.97	0.00	0.00	367.65
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	209.87	4.42	167.84	367.65
Anticipated crop nutrient removal	167.40	18.00	112.50	0.00
Actual crop nutrient removal	122.46	13.55	73.38	398.78
Nutrient balance	87.41	-9.13	94.46	-31.13
Applied to removed ratio	1.71	0.33	2.29	0.92

Fresh water applied	
35,460,000.00	*gallons*
1,305.87	*acre-inches*
39.57	*inches/acre*

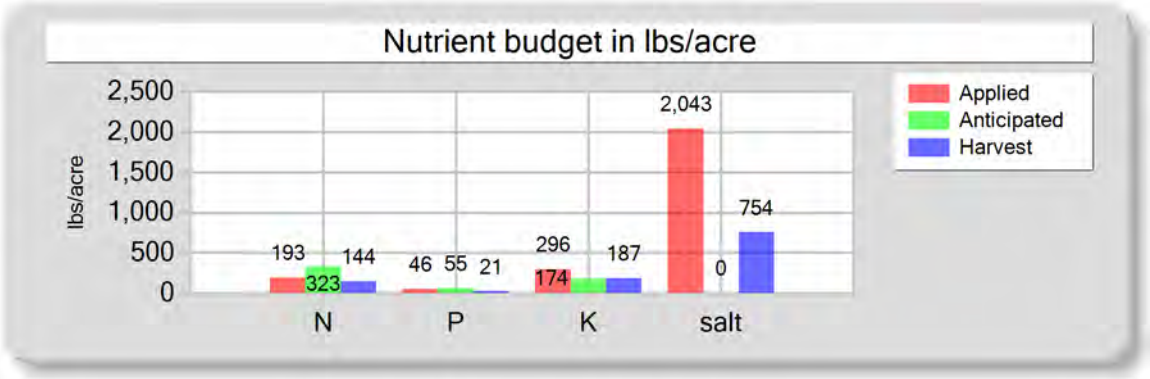
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 238 - 11/21/2022: Wheat, silage, soft dough

Field name: Field 238 Crop: Wheat, silage, soft dough Plant date: 11/21/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	181.61	45.98	295.59	1,876.98
Fresh water	4.04	0.00	0.00	165.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	192.65	45.98	295.59	2,042.66
Anticipated crop nutrient removal	323.40	54.60	174.30	0.00
Actual crop nutrient removal	144.35	21.50	187.35	753.93
Nutrient balance	48.30	24.48	108.24	1,288.72
Applied to removed ratio	1.33	2.14	1.58	2.71

Fresh water applied	
34,380,000.00	*gallons*
1,266.10	*acre-inches*
17.83	*inches/acre*

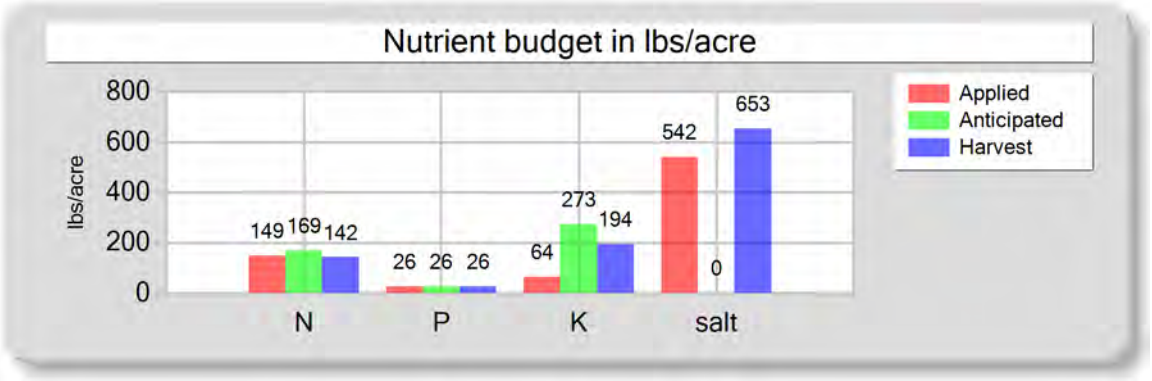
Process wastewater applied	
8,506,800.00	*gallons*
313.28	*acre-inches*
4.41	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 238 - 05/31/2023: Tomato

Field name: Field 238 Crop: Tomato Plant date: 05/31/2023



	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	135.60	25.64	63.87	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.02	0.00	0.00	541.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	148.62	25.64	63.87	541.80
Anticipated crop nutrient removal	169.00	26.00	273.00	0.00
Actual crop nutrient removal	141.97	25.81	193.59	652.54
Nutrient balance	6.65	-0.17	-129.72	-110.73
Applied to removed ratio	1.05	0.99	0.33	0.83

Fresh water applied	
51,217,560.00	*gallons*
1,886.17	*acre-inches*
26.57	*inches/acre*

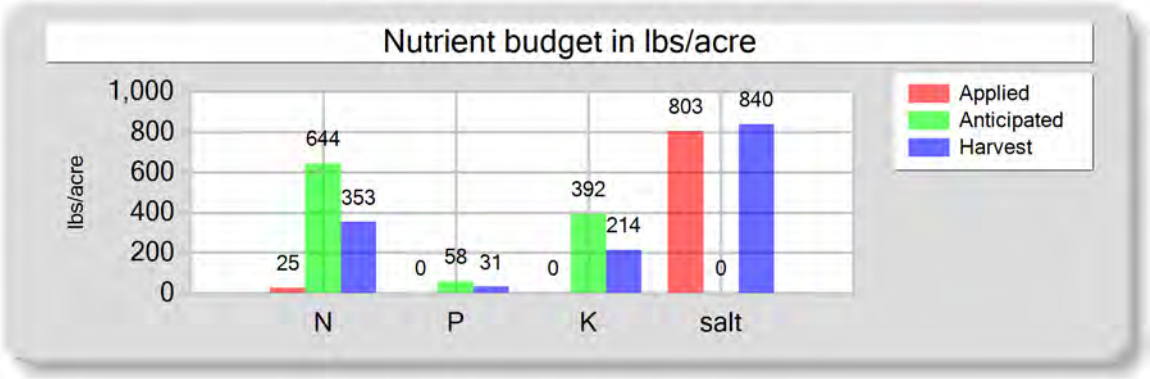
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Field 239 - 11/13/2021: Alfalfa, hay

Field name: Field 239 Crop: Alfalfa, hay Plant date: 11/13/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	11.39	0.00	0.00	802.95
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	25.39	0.00	0.00	802.95
Anticipated crop nutrient removal	644.40	57.60	392.40	0.00
Actual crop nutrient removal	352.80	30.83	213.51	839.84
Nutrient balance	-327.41	-30.83	-213.51	-36.89
Applied to removed ratio	0.07	0.00	0.00	0.96

Fresh water applied	
111,570,240.00	*gallons*
4,108.75	*acre-inches*
38.40	*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.

NUTRIENT ANALYSES

A. MANURE ANALYSES

Corral Solids

Sample and source description: Corral Solids
Sample date: 10/03/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 23.6 %

	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	22,300.00	5,200.00	35,900.00							0.00
DL	100.00	100.00	100.00							0.01

Drying Solids

Sample and source description: Drying Solids
Sample date: 10/03/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 8.8 %

	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 (%)
Value	11,800.00	1,800.00	14,400.00							0.00
DL	100.00	100.00	100.00							0.01

Separator Solids

Sample and source description: Separator Solids
Sample date: 10/03/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 73.0 %

	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	19,200.00	1,500.00	3,800.00							0.00
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.

Corral Solids

Sample and source description: Corral Solids
Sample date: 04/17/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 49.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,900.00	5,300.00	41,700.00							0.00
DL	100.00	100.00	100.00							0.01

Drying Solids

Sample and source description: Drying Solids
Sample date: 04/17/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 28.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,700.00	2,800.00	17,200.00							0.00
DL	100.00	100.00	100.00							0.01

Separator Solids

Sample and source description: Separator Solids
Sample date: 04/17/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 52.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	2,500.00	14,600.00	18,700.00	8,500.00	1,300.00	2,100.00	1,000.00		59.90
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

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

Corral Solids

Sample and source description: Corral Solids
Sample date: 10/10/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 16.1 %

	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	16,100.00	4,600.00	30,700.00							0.00
DL	100.00	100.00	100.00							0.01

Drying Solids

Sample and source description: Drying Solids
Sample date: 10/10/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 22.7 %

	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	10,600.00	1,700.00	9,700.00							0.00
DL	100.00	100.00	100.00							0.01

Separator Solids

Sample and source description: Separator Solids
Sample date: 10/10/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 79.9 %

	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	16,000.00	2,800.00	17,000.00							0.00
DL	100.00	100.00	100.00							0.01

B. PROCESS WASTEWATER ANALYSES

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

Slurry

Sample and source description: Slurry

Sample date: 10/17/2022 Material type: Process wastewater sludge Source of analysis: Lab analysis pH: 7.20

	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	859.00	794.00	0.00	1.20	210.00	557.00								4,940.00	1,950
DL	1.00	0.50	0.50	0.10	0.10	0.50								1.00	10

4QWW

Sample and source description: 4QWW

Sample date: 10/18/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.10

	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	267.00	34.00	0.00	1.30	149.00	430.00								4,790.00	4,550
DL	1.00	0.50	0.50	0.10	0.10	0.50								1.00	10

1QWW

Sample and source description: 1QWW

Sample date: 02/13/2023 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	146.00	0.00	0.60	45.30	307.00								3,360.00	1,900
DL	1.00	0.50	0.50	0.10	0.10	0.50								1.00	10

2QWW

Sample and source description: 2QWW

Sample date: 06/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.90

	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	192.00	125.00	0.00	20.30	46.50	287.00								4,200.00	1,860
DL	1.00	0.50	0.50	0.10	0.10	0.50								1.00	10

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

3QWW

Sample and source description: 3QWW

Sample date: 09/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.30

	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	538.00	352.00	0.00	1.30	105.00	511.00	188.00	137.00	168.00	2,510.00	20.00	51.50	180.00	5,480.00	2,320
DL	1.00	0.50	0.50	0.10	0.10	0.50	0.10	0.10	1.00	10.00	1.00	0.50	0.20	1.00	10

4QWW

Sample and source description: 4QWW

Sample date: 10/25/2023 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	110.00	75.80	0.00	0.10	49.40	247.00								2,270.00	1,630
DL	1.00	0.50	0.50	0.10	0.10	0.50								1.00	10

C. FRESH WATER ANALYSES

Chowchilla Canal

Surface Water

Sample description: Surface Water

Sample date: 07/20/2023 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								52.00	41
DL	1.00	0.50	0.10								10.00	10

IW 162

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

IW 162

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	4.22	0.00	1.90								292.00	232
DL	1.00	0.50	0.10								10.00	10

IW 171

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 12/13/2023 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	1.58	0.00	1.30								237.00	190
DL	1.00	0.50	0.10								10.00	10

IW 202

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 12/13/2023 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	1.62	0.00	1.20								1,650.00	990
DL	1.00	0.50	0.10								1.00	10

IW 208

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

IW 208

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 12/13/2023 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	1.00								244.00	204
DL	1.00	0.50	0.10								10.00	10

IW 221

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.14	0.00	2.10								266.00	230
DL	1.00	0.50	0.10								10.00	10

IW 222

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 12/07/2023 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								241.00	194
DL	1.00	0.50	0.10								10.00	10

IW 234

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

IW 234

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	20.90	0.00	1.00								205.00	200
DL	1.00	0.50	0.10								10.00	10

IW 238

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/31/2023 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	1.19	0.00	1.10								243.00	205
DL	1.00	0.50	0.10								10.00	10

IW 241

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	6.23	0.00	1.40								255.00	236
DL	1.00	0.50	0.10								10.00	10

IW 243

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

IW 243

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/24/2023 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	0.40								267.00	166
DL	1.00	0.50	0.10								10.00	10

IW 250

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	3.36	0.00	3.36								340.00	295
DL	1.00	0.50	0.10								10.00	10

IW 255

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/24/2023 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	1.91	0.00	1.80								189.00	170
DL	1.00	0.50	0.10								10.00	10

IW 257

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

IW 257

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/24/2023 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								26.10	26
DL	1.00	0.50	0.10								1.00	10

IW 259

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.82	0.00	1.80								262.00	236
DL	1.00	0.50	0.10								10.00	10

D. SOIL ANALYSES

Field 209W

Soils

Sample and source description: Soils

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.70				
DL			4.00				

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

Field 216

Soils

Sample and source description: Soils

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			7.00				
DL			4.00				

Field 217

Soils

Sample and source description: Soils

Sample date: 10/24/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.20				
DL			4.00				

Field 218

Soils

Sample and source description: Soils

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.30				
DL			4.00				

Field 220

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

Field 220

Soils

Sample and source description: Soils

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.30				
DL			4.00				

Field 222

Soils

Sample and source description: Soils

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.90				
DL			4.00				

Field 226

Soils

Sample and source description: Soils

Sample date: 10/24/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			7.00				
DL			4.00				

Field 228

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

Field 228

Soils

Sample and source description: Soils

Sample date: 10/24/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			7.10				
DL			4.00				

Field 229W

Soils

Sample and source description: Soils

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.50				
DL			4.00				

Field 230

Soils

Sample and source description: Soils

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.40				
DL			4.00				

Field 231

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

Field 231

Soils

Sample and source description: Soils

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.30				
DL			4.00				

Field 233

Soils

Sample and source description: Soils

Sample date: 11/21/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			7.00				
DL			4.00				

Field 234

Soils

Sample and source description: Soils

Sample date: 11/21/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.00				
DL			4.00				

Field 235

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

Field 235

Soils

Sample and source description: Soils

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			5.70				
DL			4.00				

Field 236

Soils

Sample and source description: Soils

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.60				
DL			4.00				

Field 237

Soils

Sample and source description: Soils

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.80				
DL			4.00				

Field 238

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

Field 238

Soils

Sample and source description: Soils

Sample date: 11/21/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			6.90				
DL			4.00				

E. PLANT TISSUE ANALYSES

Field 209E - 10/15/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,100.00	6,300.00		6.90
DL	100.00	100.00	100.00		0.01

Field 209E - 05/18/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	900.00	4,300.00		7.00
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.

Field 209W - 09/12/2022: Rye Grass

Rye Grass Silage

Sample and source description: Rye Grass Silage
Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	1,200.00	11,100.00		9.60
DL	100.00	100.00	100.00		0.01

Field 209W - 06/11/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,400.00	700.00	2,800.00		5.40
DL	100.00	100.00	100.00		0.01

Field 214 - 10/01/2021: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 11/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 13.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,900.00	2,800.00	25,900.00		10.20
DL	100.00	100.00	100.00		0.01

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

Field 215 - 09/26/2019: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 07/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 19.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,800.00	2,900.00	24,800.00		9.90
DL	100.00	100.00	100.00		0.01

Field 216 - 10/13/2022: Rye Grass

Rye Grass Silage

Sample and source description: Rye Grass Silage
Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	900.00	8,800.00		8.80
DL	100.00	100.00	100.00		0.01

Field 216 - 06/12/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	600.00	3,600.00		5.50
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.

Field 217 - 10/12/2022: Rye Grass

Rye Grass Silage

Sample and source description: Rye Grass Silage
Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 68.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	1,000.00	9,400.00		14.30
DL	100.00	100.00	100.00		0.01

Field 217 - 06/23/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	1,000.00	4,200.00		5.90
DL	100.00	100.00	100.00		0.01

Field 218 - 09/10/2022: Rye Grass

Rye Grass Silage

Sample and source description: Rye Grass Silage
Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 63.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	1,000.00	9,200.00		9.10
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.

Field 218 - 06/14/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	1,100.00	5,200.00		5.80
DL	100.00	100.00	100.00		0.01

Field 219 - 10/01/2021: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 11/09/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 19.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,100.00	2,800.00	19,100.00		10.53
DL	100.00	100.00	100.00		0.01

Field 220 - 10/13/2022: Rye Grass

Rye Grass Silage

Sample and source description: Rye Grass Silage
Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	1,300.00	11,000.00		9.70
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.

Field 220 - 06/13/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,600.00	600.00	3,400.00		5.50
DL	100.00	100.00	100.00		0.01

Field 221 - 10/12/2021: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 11/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 12.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,600.00	3,000.00	25,400.00		9.90
DL	100.00	100.00	100.00		0.01

Field 222 - 09/09/2022: Rye Grass

Rye Grass Silage

Sample and source description: Rye Grass Silage
Sample date: 04/20/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	1,200.00	11,700.00		13.40
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.

Field 222 - 06/14/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,200.00	600.00	4,000.00		6.80
DL	100.00	100.00	100.00		0.01

Field 223 - 09/29/2020: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 24.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,500.00	3,200.00	23,000.00		10.00
DL	100.00	100.00	100.00		0.01

Field 224 - 11/19/2021: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 11/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 12.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,600.00	3,300.00	31,800.00		11.60
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.

Field 225 - 10/01/2020: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 11/08/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 19.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,500.00	2,700.00	20,600.00		9.97
DL	100.00	100.00	100.00		0.01

Field 226 - 11/30/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	900.00	4,900.00		7.30
DL	100.00	100.00	100.00		0.01

Field 226 - 06/23/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	900.00	5,000.00		6.40
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.

Field 227E - 04/22/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 08/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	900.00	6,200.00		9.40
DL	100.00	100.00	100.00		0.01

Field 227W - 09/26/2020: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 11/09/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 15.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,900.00	2,900.00	21,600.00		15.53
DL	100.00	100.00	100.00		0.01

Field 228 - 11/30/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	1,100.00	7,200.00		8.60
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.

Field 228 - 06/22/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	900.00	4,400.00		6.00
DL	100.00	100.00	100.00		0.01

Field 229E - 04/24/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 08/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	900.00	5,200.00		7.20
DL	100.00	100.00	100.00		0.01

Field 229W - 11/21/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 54.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,600.00	1,600.00	8,500.00		8.20
DL	100.00	100.00	100.00		0.01

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

Field 229W - 06/13/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	900.00	5,200.00		6.00
DL	100.00	100.00	100.00		0.01

Field 230 - 11/01/2020: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 7.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,300.00	3,400.00	14,800.00		8.10
DL	100.00	100.00	100.00		0.01

Field 231 - 11/01/2020: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 5.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,700.00	3,100.00	17,100.00		9.30
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.

Field 232 - 10/14/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage
Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,400.00	1,300.00	8,700.00		10.10
DL	100.00	100.00	100.00		0.01

Field 232 - 05/20/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	1,100.00	5,000.00		6.10
DL	100.00	100.00	100.00		0.01

Field 233 - 11/19/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 72.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	900.00	5,900.00		8.60
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.

Field 233 - 06/21/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	900.00	4,600.00		7.00
DL	100.00	100.00	100.00		0.01

Field 234 - 11/19/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage
Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 68.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,000.00	1,400.00	12,100.00		6.10
DL	100.00	100.00	100.00		0.01

Field 234 - 05/26/2023: Tomato

Tomato

Sample and source description: Tomato
Sample date: 10/03/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 92.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,400.00	300.00	2,200.00		8.00
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.

Field 235 - 11/01/2019: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 9.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,000.00	2,600.00	13,700.00		9.00
DL	100.00	100.00	100.00		0.01

Field 236 - 11/01/2020: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 4.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,500.00	3,300.00	18,500.00		7.20
DL	100.00	100.00	100.00		0.01

Field 237 - 11/01/2020: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 5.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,200.00	2,900.00	15,700.00		9.00
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.

Field 238 - 11/21/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage
Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 67.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	700.00	6,100.00		7.60
DL	100.00	100.00	100.00		0.01

Field 238 - 05/31/2023: Tomato

Tomato

Sample and source description: Tomato
Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 93.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	1,100.00	200.00	1,500.00		7.90
DL	100.00	100.00	100.00		0.01

Field 239 - 11/13/2021: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 11/09/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 25.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,900.00	2,700.00	18,700.00		9.90
DL	100.00	100.00	100.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

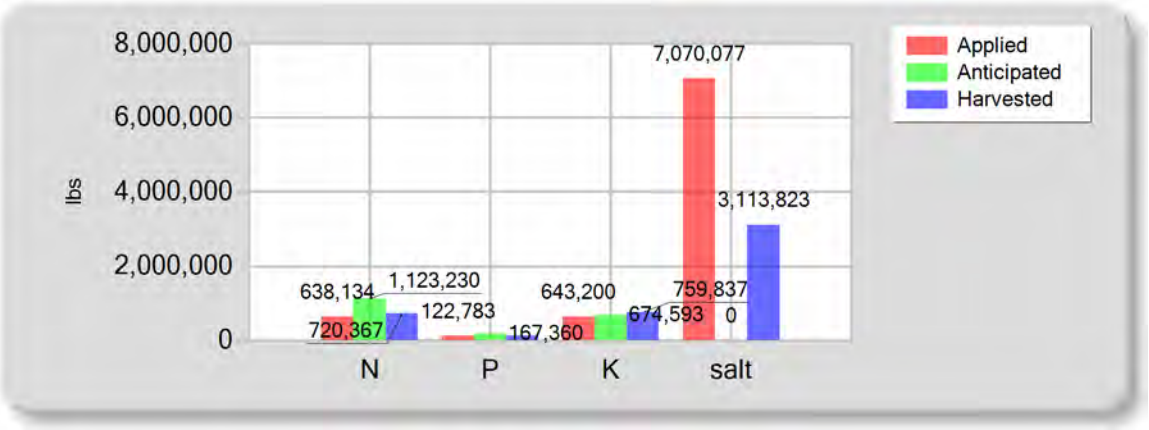
Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

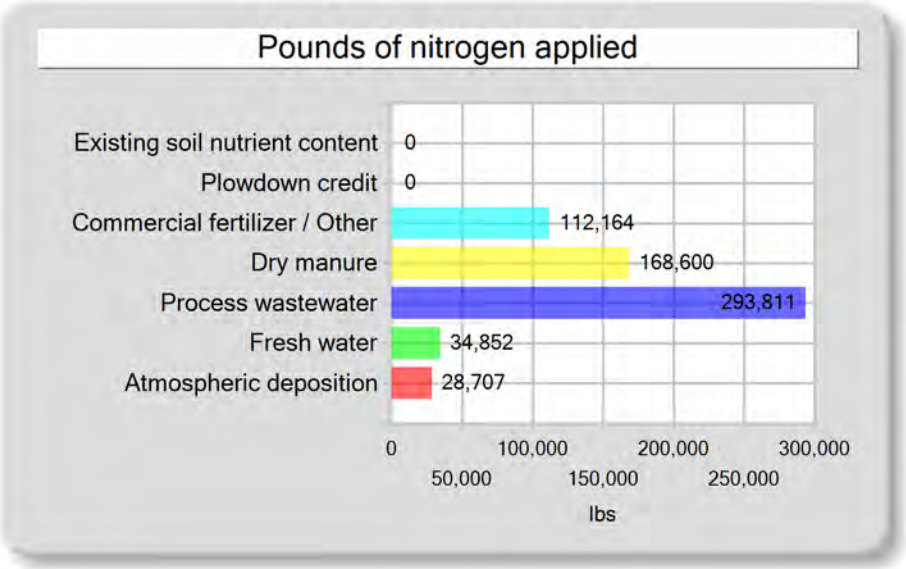
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	112,163.92	12,884.50	57,318.92	0.00
Dry manure	168,599.70	35,673.30	232,546.32	2,413,946.04
Process wastewater	293,811.47	74,225.48	353,334.69	2,122,432.63
Fresh water	34,852.13	0.00	0.00	2,533,698.32
Atmospheric deposition	28,707.00	0.00	0.00	0.00
Total nutrients applied	638,134.21	122,783.27	643,199.93	7,070,076.99
Anticipated crop nutrient removal	1,123,229.60	167,360.20	674,593.00	0.00
Actual crop nutrient removal	720,366.97	115,940.67	759,836.84	3,113,823.48
Nutrient balance	-82,232.76	6,842.60	-116,636.91	3,956,253.51
Applied to removed ratio	0.89	1.06	0.85	2.27

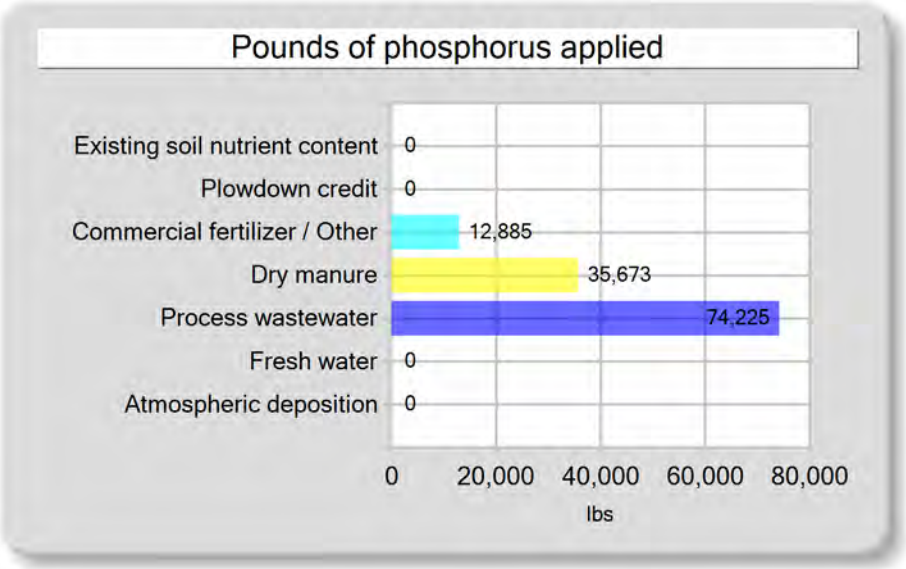
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

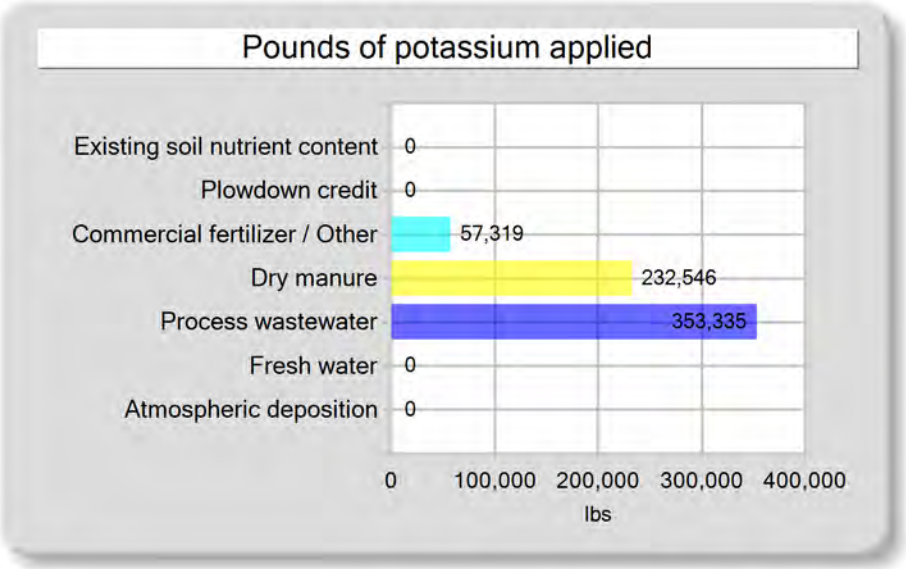


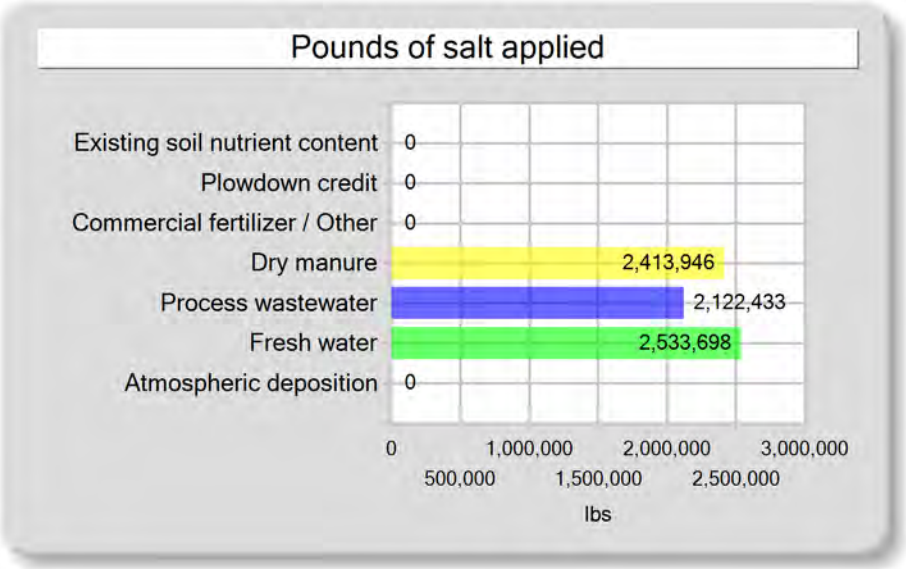
Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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 to meet freshwater needs of winter forage.

Irrigation Wells IW #201, 225, 231, 239, 254, 256, & 258 were non-operational 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.

Fields 209E Winter Forage, 209W Rye Grass, 217 Rye Grass, 218 Rye Grass, 226 Winter Forage, 228 Winter Forage, 233 Winter Forage, 238 Winter Forage, 209W Corn, 216 Corn, 215 Alfalfa, 219 Alfalfa, 221 Alfalfa, 223 Alfalfa, 225 Alfalfa, 227 W Alfalfa & 239 Alfalfa had lower than anticipated removal rates. This was due to lower than expected yields and/or 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.

Field 216 Rye Grass, 220 Rye Grass, 222 Rye Grass, 230 Almonds, 231, Almonds, 235 Almonds, 236 Almonds, & 237 Almonds had lower than anticipated removal rates, which was due to lower than anticipated %N &/or extremely low tonnage. The low removal rates resulted in field ratios slightly exceeding target limits, even though application rates did not exceed expected removals.

Almond fields are young trees which led to extremely small removal rates, due to low tonnage & %N. As trees become mature removal rates will increase.

Rye grass fields received initial nutrient applications only. Producer noticed that crop growth was stunted and therefore no additional nutrients were applied.

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 214 Alfalfa, 215 Alfalfa, 219 Alfalfa, 221 Alfalfa, 223 Alfalfa, 230 Almonds, 231 Almonds, 234 Tomatoes, 235 Almonds, 236 Almonds, 237 Almonds, 238 Tomatoes & 239 Alfalfa 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 227E & 229E were fallow during the winter 2023 cropping season.

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:
125E79C6A44C4E1...

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Edgar DeJager	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6/20/2024	
DATE	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: Edgar DeJager

Name of Dairy Facility: Double DJ Dairy

Facility Address:

Number and Street	City	County	Zip Code
14768 Avenue 27	Chowchilla	Madera	93610

Contact Person Name and Phone Number:

Name	Phone Number
Edgar DeJager	(559) 804-1286

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Double DJ Farms

Address of Hauling Company/Person:

Number and Street	City	State	Zip Code
P.O. Box 429	Chowchilla	CA	93610

Contact Person:

Name	Phone Number
Edgar DeJager	(559) 804-1286

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Name	Phone Number
Richard Hogue	(559) 804-1286

Address	City	State	Zip Code
P.O. Box 429	Chowchilla	CA	93610

Destination Address or Assessor's Parcel Number:

Address	City	Zip Code

Street and nearest cross street (if no address)	County

Assessor's Parcel Number	Assessor's Parcel Number County
0003-0170-0014-0000	Madera

Last date hauled: 09/08/2023

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: 2,100.00 tons

Manure Solids Content: 83.9 %

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:
125E79C6A44C4E1...

6/20/2024

Operator Signature — Date

DocuSigned by:
125E79C6A44C4E1...

6/20/2024

Hauler Signature — Date

DELLAVALLE™
LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: Em

Received: 07/20/2023 15:40
Reported: 07/31/2023 14:33

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1558-01	Chowchilla River	Ag Water	DJF		07/20/2023 7:30

Default Cooler Temperature on Receipt °C: -1.7
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

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PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
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Submitted By: FR
Ranch: Em

Received: 07/20/2023 15:40
Reported: 07/31/2023 14:33

Sample Results

Sample: Chowchilla River
23G1558-01 (Water)

Sampled: 7/20/2023 7:30
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.05**	mmhos/cm	0.01	1		07/28/23 10:59	SM 2510 B		BEG0840
Electrical Conductivity umhos	**51.8**	umhos/cm	10.0	1		07/28/23 10:59	SM 2510 B		BEG0840
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	07/21/23 19:35	EPA 300.0		BEG0806
pH	**7.3**	units	1.0	1		07/28/23 10:59	SM 4500-H+	H	BEG0840
Total Filterable Solids (TDS)	**41.0**	mg/L	10.0	1		07/28/23 15:31	SM 2540 C		BEG0788
Temperature	**25.0**	°C	0.0	1		07/28/23 10:59	SM 2510 B		BEG0840
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/26/23 09:27	SM 4500-NH3 C		BEG0882
Total Nitrogen	ND	mg/L	1.00	1		07/26/23 09:27	SM 4500-NH3 C		BEG0882

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Reported: 07/31/2023 14:33

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0788										
Blank (BEG0788-BLK1)					Prepared: 7/20/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEG0788-BS1)					Prepared: 7/20/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	31.2		10.0	mg/L	2000		1.56	0-200		
Duplicate (BEG0788-DUP1)		**Source: 23G1524-03**			Prepared: 7/20/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	620		10.0	mg/L		625			0.803	10
Duplicate (BEG0788-DUP2)		**Source: 23G1559-01**			Prepared: 7/20/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	90.0		10.0	mg/L		85.0			5.71	10
Reference (BEG0788-SRM1)					Prepared: 7/20/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	320			mg/L	325.0		98.5	90-110		
Reference (BEG0788-SRM2)					Prepared: 7/20/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	490			mg/L	495.0		99.0	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0806										
Blank (BEG0806-BLK1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG0806-BLK2)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEG0806-BS1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEG0806-DUP1)		**Source: 23G1572-04**			Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	3.6		0.1	mg/L		3.5			3.02	10
Matrix Spike (BEG0806-MS1)		**Source: 23G1572-04**			Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	8.6		0.1	mg/L	5.000	3.5	102	90-110		
Reference (BEG0806-SRM1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.1	90-110		
Reference (BEG0806-SRM2)					Prepared: 7/21/2023 Analyzed: 7/22/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.6	90-110		

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Received: 07/20/2023 15:40
Reported: 07/31/2023 14:33

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0840										
Blank (BEG0840-BLK1)					Prepared & Analyzed: 7/28/2023					
pH	5.2		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEG0840-BLK2)					Prepared & Analyzed: 7/28/2023					
pH	5.4		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEG0840-BLK3)					Prepared & Analyzed: 7/28/2023					
pH	5.5		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEG0840-DUP1)		**Source: 23G1572-03**			Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	0.49		0.01	mmhos/cm		0.50			0.424	10
pH	7.9		1.0	units		7.9			0.127	10
Electrical Conductivity umhos	494		10.0	umhos/cm		496			0.424	10
Duplicate (BEG0840-DUP2)		**Source: 23G1765-01**			Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	0.03		0.01	mmhos/cm		0.03			0.637	10
pH	6.9		1.0	units		7.1			1.71	10
Electrical Conductivity umhos	31.3		10.0	umhos/cm		31.5			0.637	10
Duplicate (BEG0840-DUP3)					Prepared: 7/28/2023 Analyzed: 7/31/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						10
pH	ND		1.0	units						10
Electrical Conductivity umhos	ND		10.0	umhos/cm						10
Reference (BEG0840-SRM1)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	551			umhos/cm	538.0		102	90-110		
Reference (BEG0840-SRM2)					Prepared & Analyzed: 7/28/2023					
pH	7.8			units	7.790		101	.7163-101.28		
Reference (BEG0840-SRM3)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEG0840-SRM4)					Prepared & Analyzed: 7/28/2023					

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0840 (Continued)										
Reference (BEG0840-SRM4)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEG0840-SRM5)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEG0840-SRM6)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEG0840-SRM7)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEG0840-SRM8)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		

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Received: 07/20/2023 15:40
Reported: 07/31/2023 14:33

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0882										
Blank (BEG0882-BLK1)					Prepared: 7/25/2023	Analyzed: 7/26/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEG0882-BLK2)					Prepared: 7/25/2023	Analyzed: 7/31/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEG0882-BS1)					Prepared: 7/25/2023	Analyzed: 7/26/2023				
Kjeldahl Nitrogen (TKN), Total	5.97		1.00	mg/L	5.709		104	90-110		
LCS (BEG0882-BS2)					Prepared: 7/25/2023	Analyzed: 7/31/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L				90-110		
Duplicate (BEG0882-DUP1)		**Source: 23G1558-01**			Prepared: 7/25/2023	Analyzed: 7/26/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BEG0882-DUP2)					Prepared: 7/25/2023	Analyzed: 7/31/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						10
Matrix Spike (BEG0882-MS1)		**Source: 23G1558-01**			Prepared: 7/25/2023	Analyzed: 7/26/2023				
Kjeldahl Nitrogen (TKN), Total	8.64		1.40	mg/L	7.992	ND	108	90-110		
Matrix Spike (BEG0882-MS2)					Prepared: 7/25/2023	Analyzed: 7/31/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L				90-110		
Reference (BEG0882-SRM1)					Prepared: 7/25/2023	Analyzed: 7/26/2023				
Kjeldahl Nitrogen (TKN), Total	22.7			mg/L	23.80		95.5	90-110		

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07/20/23 15:40 23G1558

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com · 559 233-6129 · 800 228-9896 · Fax 559 268-6174

No. Samples: 1 Material: Water

-1.7

Purchase Order No	Bill To:	Acct # 22215	Cons # 09/08

Name: Double DJ Farms (EDGEMAR)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: Em
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 7/20 7:30am **Sampled By:** DJF

DESCRIPTION OF SAMPLE

1 Chowchilla River
2
3
4
5
6
7
8
9
10
11
12
13
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24

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1 + TN, TKN per Scott KS 7-20-23

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second	CS	DLI	7/20 2:20	7/20 3:10
Third				
Fourth	JY	DLI	7/20/23 15:40	

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

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

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Double DJ Farms (EDGEMAR) .xls]Soil & Tissue

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Paste

07/20/23 15:40 23G1558

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic	1									
	* pH Value	<2									
	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 $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

DRAFT
SEND OUT

DELLAVALLE™
LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/10/2023 13:23
Reported: 08/21/2023 09:26

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1104-01	EM-162	Canal Water	DJF		08/10/2023 0:00
23H1104-02	EM-221	Canal Water	DJF		08/10/2023 0:00
23H1104-03	EM-234	Canal Water	DJF		08/10/2023 0:00
23H1104-04	EM-241	Canal Water	DJF		08/10/2023 0:00
23H1104-05	EM-250	Canal Water	DJF		08/10/2023 0:00
23H1104-06	EM-259	Canal Water	DJF		08/10/2023 0:00

Default Cooler Temperature on Receipt °C: 4.1
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.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Account# 00-0022215
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Submitted By: FR
Ranch: EM

Received: 08/10/2023 13:23
Reported: 08/21/2023 09:26

Sample Results

Sample: EM-162
23H1104-01 (Water)

Sampled: 8/10/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.29**	mmhos/cm	0.01	1		08/14/23 18:04	SM 2510 B		BEH0590
Electrical Conductivity umhos	**292**	umhos/cm	10.0	1		08/14/23 18:04	SM 2510 B		BEH0590
Nitrate Nitrogen as NO3N	**1.9**	mg/L	0.1	1	10	08/10/23 22:46	EPA 300.0		BEH0519
pH	**7.3**	units	1.0	1		08/14/23 18:04	SM 4500-H+	H	BEH0590
Total Filterable Solids (TDS)	**232**	mg/L	10.0	1		08/15/23 11:41	SM 2540 C		BEH0607
Temperature	**25.0**	°C	0.0	1		08/14/23 18:04	SM 2510 B		BEH0590
Kjeldahl Nitrogen (TKN), Total	**2.22**	mg/L	1.00	1		08/14/23 11:00	SM 4500-NH3 C		BEH0608
Total Nitrogen	**4.22**	mg/L	1.00	1		08/14/23 11:00	SM 4500-NH3 C		BEH0608

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Sample Results
(Continued)

Sample: EM-221
23H1104-02 (Water)

Sampled: 8/10/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.27**	mmhos/cm	0.01	1		08/14/23 18:05	SM 2510 B		BEH0590
Electrical Conductivity umhos	**266**	umhos/cm	10.0	1		08/14/23 18:05	SM 2510 B		BEH0590
Nitrate Nitrogen as NO3N	**2.1**	mg/L	0.1	1	10	08/10/23 23:06	EPA 300.0		BEH0519
pH	**7.4**	units	1.0	1		08/14/23 18:05	SM 4500-H+	H	BEH0590
Total Filterable Solids (TDS)	**230**	mg/L	10.0	1		08/15/23 11:41	SM 2540 C		BEH0607
Temperature	**25.0**	°C	0.0	1		08/14/23 18:05	SM 2510 B		BEH0590
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/14/23 11:02	SM 4500-NH3 C		BEH0608
Total Nitrogen	**2.14**	mg/L	1.00	1		08/14/23 11:02	SM 4500-NH3 C		BEH0608

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Sample Results
(Continued)

Sample: EM-234
23H1104-03 (Water)

Sampled: 8/10/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.20**	mmhos/cm	0.01	1		08/14/23 18:07	SM 2510 B		BEH0590
Electrical Conductivity umhos	**205**	umhos/cm	10.0	1		08/14/23 18:07	SM 2510 B		BEH0590
Nitrate Nitrogen as NO3N	**1.0**	mg/L	0.1	1	10	08/10/23 23:26	EPA 300.0		BEH0519
pH	**7.6**	units	1.0	1		08/14/23 18:07	SM 4500-H+	H	BEH0590
Total Filterable Solids (TDS)	**200**	mg/L	10.0	1		08/15/23 11:41	SM 2540 C		BEH0607
Temperature	**25.0**	°C	0.0	1		08/14/23 18:07	SM 2510 B		BEH0590
Kjeldahl Nitrogen (TKN), Total	**19.9**	mg/L	1.00	1		08/14/23 11:03	SM 4500-NH3 C		BEH0608
Total Nitrogen	**20.9**	mg/L	1.00	1		08/14/23 11:03	SM 4500-NH3 C		BEH0608

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Sample Results
(Continued)

Sample: EM-241
23H1104-04 (Water)

Sampled: 8/10/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.25**	mmhos/cm	0.01	1		08/14/23 18:08	SM 2510 B		BEH0590
Electrical Conductivity umhos	**255**	umhos/cm	10.0	1		08/14/23 18:08	SM 2510 B		BEH0590
Nitrate Nitrogen as NO3N	**1.4**	mg/L	0.1	1	10	08/10/23 23:46	EPA 300.0		BEH0519
pH	**7.5**	units	1.0	1		08/14/23 18:08	SM 4500-H+	H	BEH0590
Total Filterable Solids (TDS)	**236**	mg/L	10.0	1		08/15/23 11:41	SM 2540 C		BEH0607
Temperature	**25.0**	°C	0.0	1		08/14/23 18:08	SM 2510 B		BEH0590
Kjeldahl Nitrogen (TKN), Total	**4.85**	mg/L	1.00	1		08/14/23 11:04	SM 4500-NH3 C		BEH0608
Total Nitrogen	**6.23**	mg/L	1.00	1		08/14/23 11:04	SM 4500-NH3 C		BEH0608

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Sample Results
(Continued)

Sample: EM-250
23H1104-05 (Water)

Sampled: 8/10/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.34**	mmhos/cm	0.01	1		08/14/23 18:09	SM 2510 B		BEH0590
Electrical Conductivity umhos	**340**	umhos/cm	10.0	1		08/14/23 18:09	SM 2510 B		BEH0590
Nitrate Nitrogen as NO3N	**3.4**	mg/L	0.1	1	10	08/11/23 00:06	EPA 300.0		BEH0519
pH	**7.5**	units	1.0	1		08/14/23 18:09	SM 4500-H+	H	BEH0590
Total Filterable Solids (TDS)	**295**	mg/L	10.0	1		08/15/23 11:41	SM 2540 C		BEH0607
Temperature	**25.0**	°C	0.0	1		08/14/23 18:09	SM 2510 B		BEH0590
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/14/23 11:06	SM 4500-NH3 C		BEH0608
Total Nitrogen	**3.36**	mg/L	1.00	1		08/14/23 11:06	SM 4500-NH3 C		BEH0608

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Sample Results
(Continued)

Sample: EM-259
23H1104-06 (Water)

Sampled: 8/10/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.26**	mmhos/cm	0.01	1		08/14/23 18:10	SM 2510 B		BEH0590
Electrical Conductivity umhos	**262**	umhos/cm	10.0	1		08/14/23 18:10	SM 2510 B		BEH0590
Nitrate Nitrogen as NO3N	**1.8**	mg/L	0.1	1	10	08/11/23 00:26	EPA 300.0		BEH0519
pH	**7.5**	units	1.0	1		08/14/23 18:10	SM 4500-H+	H	BEH0590
Total Filterable Solids (TDS)	**236**	mg/L	10.0	1		08/15/23 11:41	SM 2540 C		BEH0607
Temperature	**25.0**	°C	0.0	1		08/14/23 18:10	SM 2510 B		BEH0590
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/14/23 11:07	SM 4500-NH3 C		BEH0608
Total Nitrogen	**1.82**	mg/L	1.00	1		08/14/23 11:07	SM 4500-NH3 C		BEH0608

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0519										
Blank (BEH0519-BLK1)					Prepared & Analyzed: 8/10/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0519-BLK2)					Prepared & Analyzed: 8/10/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0519-BLK3)					Prepared: 8/10/2023 Analyzed: 8/11/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH0519-BS1)					Prepared & Analyzed: 8/10/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
LCS (BEH0519-BS2)					Prepared: 8/10/2023 Analyzed: 8/11/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.3	90-110		
Duplicate (BEH0519-DUP1)		**Source: 23H1006-01**			Prepared & Analyzed: 8/10/2023					
Nitrate Nitrogen as NO3N	0.05		0.1	mg/L		0.05			2.02	10
Duplicate (BEH0519-DUP2)		**Source: 23H1104-01**			Prepared: 8/10/2023 Analyzed: 8/11/2023					
Nitrate Nitrogen as NO3N	2.0		0.1	mg/L		1.9			0.665	10
Matrix Spike (BEH0519-MS1)		**Source: 23H1006-01**			Prepared & Analyzed: 8/10/2023					
Nitrate Nitrogen as NO3N	6.2		0.1	mg/L	5.000	0.05	122	90-110		
Matrix Spike (BEH0519-MS2)		**Source: 23H1104-01**			Prepared: 8/10/2023 Analyzed: 8/11/2023					
Nitrate Nitrogen as NO3N	7.0		0.1	mg/L	5.000	1.9	101	90-110		
Reference (BEH0519-SRM1)					Prepared & Analyzed: 8/10/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		100	90-110		
Reference (BEH0519-SRM2)					Prepared & Analyzed: 8/10/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Reference (BEH0519-SRM3)					Prepared: 8/10/2023 Analyzed: 8/11/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0590										
Blank (BEH0590-BLK1)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
pH	4.4		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEH0590-BLK2)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	4.5		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEH0590-BLK3)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	4.3		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEH0590-DUP1)		**Source: 23H1104-02**			Prepared: 8/10/2023	Analyzed: 8/14/2023				
pH	7.8		1.0	units		7.4			4.62	10
Electrical Conductivity	0.27		0.01	mmhos/cm		0.27			0.151	10
Electrical Conductivity umhos	265		10.0	umhos/cm		266			0.151	10
Duplicate (BEH0590-DUP2)		**Source: 23H1149-01**			Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity	0.03		0.01	mmhos/cm		0.03			8.97	10
pH	7.4		1.0	units		7.0			5.98	10
Electrical Conductivity umhos	27.7		10.0	umhos/cm		30.3			8.97	10
Reference (BEH0590-SRM1)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity	496			umhos/cm	538.0		92.2	90-110		
Reference (BEH0590-SRM2)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
pH	5.8			units	5.820		99.3	28178-101.71		
Reference (BEH0590-SRM3)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity	939			umhos/cm	1000		93.9	90-110		
Electrical Conductivity umhos	939			umhos/cm	1000		93.9	90-110		
Reference (BEH0590-SRM4)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity	942			umhos/cm	1000		94.2	90-110		
Electrical Conductivity umhos	942			umhos/cm	1000		94.2	90-110		
Reference (BEH0590-SRM5)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity	950			umhos/cm	1000		95.0	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0590 (Continued)										
Reference (BEH0590-SRM5)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
Electrical Conductivity umhos	950			umhos/cm	1000		95.0	90-110		
Reference (BEH0590-SRM6)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH0590-SRM7)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH0590-SRM8)					Prepared: 8/10/2023	Analyzed: 8/14/2023				
pH	4.0			units	4.000		99.8	97.5-102.5		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0607										
Blank (BEH0607-BLK1)					Prepared: 8/11/2023 Analyzed: 8/15/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEH0607-BS1)					Prepared: 8/11/2023 Analyzed: 8/15/2023					
Total Filterable Solids (TDS)	33.8		10.0	mg/L	2000		1.69	0-200		
Duplicate (BEH0607-DUP1)		**Source: 23H1140-03**			Prepared: 8/11/2023 Analyzed: 8/15/2023					
Total Filterable Solids (TDS)	680		10.0	mg/L		640			6.06	10
Duplicate (BEH0607-DUP2)		**Source: 23H1152-02**			Prepared: 8/11/2023 Analyzed: 8/15/2023					
Total Filterable Solids (TDS)	1580		10.0	mg/L		1560			1.27	10
Reference (BEH0607-SRM1)					Prepared: 8/11/2023 Analyzed: 8/15/2023					
Total Filterable Solids (TDS)	320			mg/L	325.0		98.5	90-110		
Reference (BEH0607-SRM2)					Prepared: 8/11/2023 Analyzed: 8/15/2023					
Total Filterable Solids (TDS)	507			mg/L	495.0		102	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/10/2023 13:23
Reported: 08/21/2023 09:26

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0608										
Blank (BEH0608-BLK1)					Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEH0608-BLK2)					Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEH0608-BS1)					Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	5.69		1.00	mg/L	5.709		99.7	90-110		
LCS (BEH0608-BS2)					Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	5.48		1.00	mg/L	5.709		96.0	90-110		
Duplicate (BEH0608-DUP1)		**Source: 23H0879-02**			Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BEH0608-DUP2)		**Source: 23H1104-02**			Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEH0608-MS1)		**Source: 23H0879-02**			Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	8.42		1.40	mg/L	7.992	ND	105	90-110		
Matrix Spike (BEH0608-MS2)		**Source: 23H1104-02**			Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	8.03		1.40	mg/L	7.992	ND	100	90-110		
Reference (BEH0608-SRM1)					Prepared: 8/11/2023	Analyzed: 8/14/2023				
Kjeldahl Nitrogen (TKN), Total	23.8			mg/L	23.80		100	90-110		

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.04

08/10/23 13:23 23H1104

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

EMS

No. Samples: 6 Material: Water

Purchase Order No	Bill To:	Acct #	Cons #
		22215	09/08

Name: Double DJ Farms (EDGEMAR)

Address: PO Box 429

City: Chowchilla **State:** CA **Zip:** 93610

Telephone: **Fax:**

Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com

COPY TO: dustin@dejagerfarms.com

krhodes@fragservices.com ariordan@fragservices.com

REQUESTED BY: FR

RANCH: Em

ID CROP:

Present Stage of Growth

Intended Previous

Date Sampled: **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)

( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)

( ) Soil Spring: DS1 (NO_3-N (0'-1')

( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))

( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)

( ) Feed: ADF/NDF

( ) Petiole/Midrib: P1

( ) Leaf: L1

(X) Other: DCW1 +TN

	DESCRIPTION OF SAMPLE	°C
1	Em - 162	4.1
2	Em - 221	3.2
3	Em - 234	3.3
4	Em - 241	3.4
5	Em - 250	4.8
6	Em - 259	5.6
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Dustin	De Jager		8-10-23 12:16pm
Second	[illegible]	DLI	8-10-23 12:16pm	8-10-23
Third				
Fourth	KS	DLI	8-10-23 1323	

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

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

Invoicing Information:

Sampling hrs

Miles

Consulting

Shipping

$ In

$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

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08/10/23 13:23 23H1104

Shipping Information: Shipped In ☐ (Picked-Up ☑) Walk In ☐ DLI Sampler ☑ Other ☐ _____

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1	1	1	1	1	1				
Plastics	* pH Value	<2	<2	<2	<2	<2	<2	8-10-23			
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1	1	1	1	1	1				
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

SEND OUT

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DELLAVALLE™
LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H2120-01	DW-243	Canal Water	DJF		08/24/2023 0:00
23H2120-02	DW-255	Canal Water	DJF		08/24/2023 0:00
23H2120-03	DW-257	Canal Water	DJF		08/24/2023 0:00

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.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Sample Results

Sample: DW-243
23H2120-01 (Water)

Sampled: 8/24/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.27**	mmhos/cm	0.01	1		08/28/23 12:03	SM 2510 B		BEH1265
Electrical Conductivity umhos	**267**	umhos/cm	10.0	1		08/28/23 12:03	SM 2510 B		BEH1265
Nitrate Nitrogen as NO3N	**0.4**	mg/L	0.1	1	10	08/24/23 22:51	EPA 300.0		BEH1180
pH	**8.1**	units	1.0	1		08/28/23 12:03	SM 4500-H+	H	BEH1265
Total Filterable Solids (TDS)	**166**	mg/L	10.0	1		08/29/23 09:23	SM 2540 C		BEH1176
Temperature	**25.0**	°C	0.0	1		08/28/23 12:03	SM 2510 B		BEH1265
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/29/23 10:48	SM 4500-NH3 C		BEH1293
Total Nitrogen	ND	mg/L	1.00	1		08/29/23 10:48	SM 4500-NH3 C		BEH1293

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Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Sample Results
(Continued)

Sample: DW-255
23H2120-02 (Water)

Sampled: 8/24/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.19**	mmhos/cm	0.01	1		08/28/23 12:05	SM 2510 B		BEH1265
Electrical Conductivity umhos	**189**	umhos/cm	10.0	1		08/28/23 12:05	SM 2510 B		BEH1265
Nitrate Nitrogen as NO3N	**1.8**	mg/L	0.1	1	10	08/25/23 03:43	EPA 300.0		BEH1180
pH	**7.6**	units	1.0	1		08/28/23 12:05	SM 4500-H+	H	BEH1265
Total Filterable Solids (TDS)	**170**	mg/L	10.0	1		08/29/23 09:23	SM 2540 C		BEH1176
Temperature	**25.0**	°C	0.0	1		08/28/23 12:05	SM 2510 B		BEH1265
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/29/23 10:49	SM 4500-NH3 C		BEH1293
Total Nitrogen	**1.91**	mg/L	1.00	1		08/29/23 10:49	SM 4500-NH3 C		BEH1293

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LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Sample Results
(Continued)

Sample: DW-257
23H2120-03 (Water)

Sampled: 8/24/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.03**	mmhos/cm	0.01	1		08/28/23 12:06	SM 2510 B		BEH1265
Electrical Conductivity umhos	**26.1**	umhos/cm	10.0	1		08/28/23 12:06	SM 2510 B		BEH1265
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/25/23 04:04	EPA 300.0		BEH1180
pH	**7.4**	units	1.0	1		08/28/23 12:06	SM 4500-H+	H	BEH1265
Total Filterable Solids (TDS)	**26.0**	mg/L	10.0	1		08/29/23 09:23	SM 2540 C		BEH1176
Temperature	**25.0**	°C	0.0	1		08/28/23 12:06	SM 2510 B		BEH1265
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/29/23 10:51	SM 4500-NH3 C		BEH1293
Total Nitrogen	ND	mg/L	1.00	1		08/29/23 13:56	SM 4500-NH3 C		BEH1293

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1176										
Blank (BEH1176-BLK1)					Prepared: 8/24/2023	Analyzed: 8/29/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEH1176-BS1)					Prepared: 8/24/2023	Analyzed: 8/29/2023				
Total Filterable Solids (TDS)	31.2		10.0	mg/L	2000		1.56	0-200		
Duplicate (BEH1176-DUP1)		**Source: 23H2007-02**			Prepared: 8/24/2023	Analyzed: 8/29/2023				
Total Filterable Solids (TDS)	2570		10.0	mg/L		2780			8.10	10
Duplicate (BEH1176-DUP2)		**Source: 23H2056-03**			Prepared: 8/24/2023	Analyzed: 8/29/2023				
Total Filterable Solids (TDS)	383		10.0	mg/L		377			1.75	10
Reference (BEH1176-SRM1)					Prepared: 8/24/2023	Analyzed: 8/29/2023				
Total Filterable Solids (TDS)	310			mg/L	325.0		95.4	90-110		

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DELLAVALLE™ LABORATORY INC

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PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1180										
Blank (BEH1180-BLK1)					Prepared & Analyzed: 8/24/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH1180-BLK2)					Prepared & Analyzed: 8/24/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH1180-BLK3)					Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH1180-BS1)					Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		97.4	90-110		
LCS (BEH1180-BS2)					Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		103	90-110		
Duplicate (BEH1180-DUP1)		**Source: 23H2120-01**			Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	0.4		0.1	mg/L		0.4			0.245	10
Duplicate (BEH1180-DUP2)		**Source: 23H2120-02**			Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	1.8		0.1	mg/L		1.8			0.276	10
Matrix Spike (BEH1180-MS1)		**Source: 23H2120-01**			Prepared & Analyzed: 8/24/2023					
Nitrate Nitrogen as NO3N	5.4		0.1	mg/L	5.000	0.4	101	90-110		
Matrix Spike (BEH1180-MS2)		**Source: 23H2120-02**			Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	6.9		0.1	mg/L	5.000	1.8	101	90-110		
Reference (BEH1180-SRM1)					Prepared & Analyzed: 8/24/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.2	90-110		
Reference (BEH1180-SRM2)					Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.7	90-110		
Reference (BEH1180-SRM3)					Prepared: 8/24/2023 Analyzed: 8/25/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		100	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1265										
Blank (BEH1265-BLK1)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.4		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEH1265-BLK2)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.2		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEH1265-BLK3)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.4		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEH1265-DUP1)		**Source: 23H2120-03**			Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	0.03		0.01	mmhos/cm		0.03			1.16	10
pH	7.2		1.0	units		7.4			3.02	10
Electrical Conductivity umhos	25.8		10.0	umhos/cm		26.1			1.16	10
Duplicate (BEH1265-DUP2)		**Source: 23H2124-03**			Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	0.26		0.01	mmhos/cm		0.25			0.235	10
pH	7.8		1.0	units		7.8			0.129	10
Electrical Conductivity umhos	255		10.0	umhos/cm		255			0.235	10
Reference (BEH1265-SRM1)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	527			umhos/cm	538.0		98.0	90-110		
Reference (BEH1265-SRM2)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
pH	5.8			units	5.820		99.8	28178-101.71		
Reference (BEH1265-SRM3)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	986			umhos/cm	1000		98.6	90-110		
Electrical Conductivity umhos	986			umhos/cm	1000		98.6	90-110		
Reference (BEH1265-SRM4)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	986			umhos/cm	1000		98.6	90-110		
Electrical Conductivity umhos	986			umhos/cm	1000		98.6	90-110		
Reference (BEH1265-SRM5)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity	995			umhos/cm	1000		99.5	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1265 (Continued)										
Reference (BEH1265-SRM5)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
Electrical Conductivity umhos	995			umhos/cm	1000		99.5	90-110		
Reference (BEH1265-SRM6)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH1265-SRM7)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH1265-SRM8)					Prepared: 8/25/2023	Analyzed: 8/28/2023				
pH	4.0			units	4.000		100	97.5-102.5		

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Received: 08/24/2023 14:50
Reported: 08/29/2023 14:46

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1293										
Blank (BEH1293-BLK1)					Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEH1293-BLK2)					Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEH1293-BS1)					Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	5.75		1.00	mg/L	5.709		101	90-110		
LCS (BEH1293-BS2)					Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	5.87		1.00	mg/L	5.709		103	90-110		
Duplicate (BEH1293-DUP1)		**Source: 23H2121-01**			Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BEH1293-DUP2)		**Source: 23H2124-02**			Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEH1293-MS1)		**Source: 23H2121-01**			Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	7.10		1.40	mg/L	7.992	ND	88.8	90-110		
Matrix Spike (BEH1293-MS2)		**Source: 23H2124-02**			Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	8.30		1.40	mg/L	7.992	ND	104	90-110		
Reference (BEH1293-SRM1)					Prepared: 8/28/2023	Analyzed: 8/29/2023				
Kjeldahl Nitrogen (TKN), Total	22.7			mg/L	23.80		95.2	90-110		

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08/24/23 14:50 23H2120

JG

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: 3 Material: Water 6

Purchase Order No | Bill To: Acct # 22215 | Cons # 09/08

Name: Double DJ Farms (EDGEMAR)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: EM
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 8/24 **Sampled By:** DJF

DESCRIPTION OF SAMPLE

1 DW - 243 2.3
2 DW - 255 1.9
3 DW - 257 1.2
4
5
6
7
8
9
10
11
12
13
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24

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(x) Other: DCW1 + TU

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JCP	DLV	8-24-23 12:52	8-24-23 2:06
Second				
Third				
Fourth	[illegible]	DLI	8/24 1415	

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

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

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Double DJ Farms (EDGEMAR) .xls]Soil & Tissue

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08/24/23 14:50 23H2120

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1	1	1							
Plastics	* pH Value	<2	<2	<2							
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1	1	1							
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot: 10BDH4501 Exp: Jan 2025

SEND OUT

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DELLAVALLE™
LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:35

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H2453-01	EM - 238	Canal Water	DJF		08/31/2023 0:00

Default Cooler Temperature on Receipt °C: -3.6

Containers Intact
COC/Labels Agree
Preservation Confirmed
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.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Chowchilla, CA 93610

Account# 00-0022215
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Submitted By: FR
Ranch: EM

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:35

Sample Results

Sample: EM - 238
23H2453-01 (Water)

Sampled: 8/31/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.24**	mmhos/cm	0.01	1		09/01/23 10:35	SM 2510 B		BEI0003
Electrical Conductivity umhos	**243**	umhos/cm	10.0	1		09/01/23 10:35	SM 2510 B		BEI0003
Nitrate Nitrogen as NO3N	**1.1**	mg/L	0.1	1	10	08/31/23 20:12	EPA 300.0		BEH1478
pH	**7.7**	units	1.0	1		09/01/23 10:35	SM 4500-H+	H	BEI0003
Total Filterable Solids (TDS)	**205**	mg/L	10.0	1		09/05/23 15:09	SM 2540 C		BEI0008
Temperature	**25.0**	°C	0.0	1		09/01/23 10:35	SM 2510 B		BEI0003
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/05/23 14:03	SM 4500-NH3 C		BEH1472
Total Nitrogen	**1.19**	mg/L	1.00	1		09/05/23 14:03	SM 4500-NH3 C		BEH1472

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Received: 08/31/2023 15:45
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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1472										
Blank (BEH1472-BLK1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEH1472-BLK2)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEH1472-BS1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	5.88		1.00	mg/L	5.709		103	90-110		
LCS (BEH1472-BS2)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	5.79		1.00	mg/L	5.709		101	90-110		
Duplicate (BEH1472-DUP1)		**Source: 23H2409-02**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BEH1472-DUP2)		**Source: 23H2455-01**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEH1472-MS1)		**Source: 23H2409-02**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	8.70		1.40	mg/L	7.992	ND	109	90-110		
Matrix Spike (BEH1472-MS2)		**Source: 23H2455-01**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	8.10		1.40	mg/L	7.992	ND	101	90-110		
Reference (BEH1472-SRM1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	23.7			mg/L	23.80		99.7	90-110		

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Account# 00-0022215
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Submitted By: FR
Ranch: EM

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:35

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1478										
Blank (BEH1478-BLK1)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH1478-BLK2)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH1478-BS1)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.0	90-110		
Duplicate (BEH1478-DUP1)		**Source: 23H2409-01**			Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	0.9		0.1	mg/L		0.9			0.569	10
Matrix Spike (BEH1478-MS1)		**Source: 23H2409-01**			Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	5.9		0.1	mg/L	5.000	0.9	101	90-110		
Reference (BEH1478-SRM1)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.7	90-110		
Reference (BEH1478-SRM2)					Prepared: 8/31/2023 Analyzed: 9/1/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.5	90-110		

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Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:35

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0003										
Blank (BEI0003-BLK1)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0003-BLK2)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	6.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0003-BLK3)					Prepared & Analyzed: 9/1/2023					
pH	6.6		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BEI0003-DUP1)		**Source: 23H2455-02**			Prepared & Analyzed: 9/1/2023					
pH	7.9		1.0	units		7.9			0.380	10
Electrical Conductivity	0.99		0.01	mmhos/cm		1.00			1.80	10
Electrical Conductivity umhos	987		10.0	umhos/cm		1000			1.80	10
Duplicate (BEI0003-DUP2)		**Source: 23I0212-01**			Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1.04		0.01	mmhos/cm		1.05			0.306	10
pH	8.8		1.0	units		8.8			0.00	10
Electrical Conductivity umhos	1040		10.0	umhos/cm		1050			0.306	10
Reference (BEI0003-SRM1)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	532			umhos/cm	538.0		99.0	90-110		
Reference (BEI0003-SRM2)					Prepared & Analyzed: 9/1/2023					
pH	5.8			units	5.820		101	28178-101.71		
Reference (BEI0003-SRM3)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1000			umhos/cm	1000		100	90-110		
Electrical Conductivity umhos	1000			umhos/cm	1000		100	90-110		
Reference (BEI0003-SRM4)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEI0003-SRM5)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:35

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0003 (Continued)										
Reference (BEI0003-SRM5)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEI0003-SRM6)					Prepared & Analyzed: 9/1/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0003-SRM7)					Prepared & Analyzed: 9/1/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0003-SRM8)					Prepared & Analyzed: 9/1/2023					
pH	4.0			units	4.000		101	97.5-102.5		

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Reported: 09/06/2023 10:35

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0008										
Blank (BEI0008-BLK1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEI0008-BS1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	37.5		10.0	mg/L	2000		1.88	0-200		
Duplicate (BEI0008-DUP1)		**Source: 23H2416-01**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	3600		10.0	mg/L		3720			3.19	10
Duplicate (BEI0008-DUP2)		**Source: 23H2455-02**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	710		10.0	mg/L		700			1.42	10
Reference (BEI0008-SRM1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	320			mg/L	325.0		98.5	90-110		

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08/31/23 15:45 23H2453

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 Material: Water

Purchase Order No | Bill To: Acct # 22215 | Cons # 09/08

Name: Double DJ Farms (EDGEMAR)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: Em
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 8/31 **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1 + TN

DESCRIPTION OF SAMPLE

1 Em-238 -3.6
2
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24

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JCF	DLV	8-31-23 12:20	8-31-23 3:42
Second				
Third				
Fourth	[illegible]	DLL	8/31 1545	

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

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

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

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08/31/23 15:45 23H2453

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

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	* pH Value	1/2									
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1									
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot: 10BDH4501 Exp: Jan 2025

SEND OUT

DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/07/2023 15:33
Reported: 12/13/2023 10:38

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0405-01	DW-222	Canal Water	DJF		12/07/2023 0:00

Default Cooler Temperature on Receipt °C: 3.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sample Results

Sample: DW-222
23L0405-01 (Water)

Sampled: 12/7/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.24**	mmhos/cm	0.01	1		12/08/23 16:14	SM 2510 B		BEL0285
Electrical Conductivity umhos	**241**	umhos/cm	10.0	1		12/08/23 16:14	SM 2510 B		BEL0285
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/07/23 19:50	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/08/23 16:14	SM 4500-H+	H	BEL0285
pH	**7.8**	units	1.0	1		12/08/23 16:14	SM 4500-H+	H	BEL0285
Total Filterable Solids (TDS)	**194**	mg/L	10.0	1		12/11/23 00:00	SM 2540 C		BEL0276
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/11/23 13:18	SM 4500-NH3 C		BEL0313
Total Nitrogen	ND	mg/L	1.00	1		12/11/23 13:18	SM 4500-NH3 C		BEL0313

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0243										
Blank (BEL0243-BLK1)					Prepared & Analyzed: 12/7/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0243-BLK2)					Prepared & Analyzed: 12/7/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0243-BLK3)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0243-BLK4)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0243-BS1)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000		94.4	90-110		
LCS (BEL0243-BS2)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.4	90-110		
LCS (BEL0243-BS3)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	5.6		0.1	mg/L	5.000		111	90-110		
Duplicate (BEL0243-DUP1)		**Source: 23L0405-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L		ND				10
Duplicate (BEL0243-DUP2)		**Source: 23L0412-04**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L		ND				10
Duplicate (BEL0243-DUP3)		**Source: 23L0413-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	0.04		0.1	mg/L		0.04			2.74	10
Matrix Spike (BEL0243-MS1)		**Source: 23L0405-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000	ND	94.1	90-110		
Matrix Spike (BEL0243-MS2)		**Source: 23L0412-04**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000	ND	95.2	90-110		
Matrix Spike (BEL0243-MS3)		**Source: 23L0413-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000	0.04	96.2	90-110		
Reference (BEL0243-SRM1)					Prepared & Analyzed: 12/7/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		94.8	90-110		
Reference (BEL0243-SRM2)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.2	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0243 (Continued)										
Reference (BEL0243-SRM3)					Prepared: 12/7/2023	Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.2	90-110		
Reference (BEL0243-SRM4)					Prepared: 12/7/2023	Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.3	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0276										
Blank (BEL0276-BLK1)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEL0276-BS1)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	23.8		10.0	mg/L	2000		1.19	0-200		
Duplicate (BEL0276-DUP1)			**Source: 23L0408-02**		Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	660		10.0	mg/L		690			4.44	10
Duplicate (BEL0276-DUP2)			**Source: 23L0444-01**		Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	3680		10.0	mg/L		3500			4.88	10
Reference (BEL0276-SRM1)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	397			mg/L	390.0		102	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0285										
Blank (BEL0285-BLK1)					Prepared & Analyzed: 12/8/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.3		1.0	units						
Blank (BEL0285-BLK2)					Prepared & Analyzed: 12/8/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.7		1.0	units						
Blank (BEL0285-BLK3)					Prepared & Analyzed: 12/8/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.6		1.0	units						
Duplicate (BEL0285-DUP1)		**Source: 23L0355-01**			Prepared & Analyzed: 12/8/2023					
Electrical Conductivity	7.39		0.01	mmhos/cm		7.36			0.325	10
Electrical Conductivity umhos	7390		10.0	umhos/cm		7360			0.325	10
pH	7.6		1.0	units		7.6			0.131	10
Duplicate (BEL0285-DUP2)		**Source: 23L0408-04**			Prepared & Analyzed: 12/8/2023					
Electrical Conductivity	0.76		0.01	mmhos/cm		0.76			0.289	10
Electrical Conductivity umhos	759		10.0	umhos/cm		761			0.289	10
pH	7.8		1.0	units		7.8			0.129	10
Reference (BEL0285-SRM1)					Prepared & Analyzed: 12/8/2023					
Electrical Conductivity	442			umhos/cm	426.0		104	90-110		
Reference (BEL0285-SRM2)					Prepared & Analyzed: 12/8/2023					
pH	7.5			units	7.520		99.7	67021-101.32		
Reference (BEL0285-SRM3)					Prepared & Analyzed: 12/8/2023					
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEL0285-SRM4)					Prepared & Analyzed: 12/8/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0285-SRM5)					Prepared & Analyzed: 12/8/2023					
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		

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Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/07/2023 15:33
Reported: 12/13/2023 10:38

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0285 (Continued)										
Reference (BEL0285-SRM5)					Prepared & Analyzed: 12/8/2023					
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEL0285-SRM6)					Prepared & Analyzed: 12/8/2023					
pH	4.0			units	4.000		99.5	97.5-102.5		
Reference (BEL0285-SRM7)					Prepared & Analyzed: 12/8/2023					
pH	4.0			units	4.000		99.5	97.5-102.5		
Reference (BEL0285-SRM8)					Prepared & Analyzed: 12/8/2023					
pH	4.0			units	4.000		99.0	97.5-102.5		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/07/2023 15:33
Reported: 12/13/2023 10:38

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0313										
Blank (BEL0313-BLK1)					Prepared & Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEL0313-BLK2)					Prepared & Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEL0313-BS1)					Prepared & Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	5.95		1.00	mg/L	5.709		104	90-110		
Duplicate (BEL0313-DUP1)		**Source: 23L0405-01**			Prepared & Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEL0313-MS1)		**Source: 23L0405-01**			Prepared & Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	8.01		1.40	mg/L	7.992	ND	100	90-110		
Reference (BEL0313-SRM1)					Prepared & Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	27.3			mg/L	23.80		115	90-110		

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12/07/23 15:33 23L0405

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 Material: Water - 2

Purchase Order No | Bill To: Acct # 22215 | Cons # 09/08

Name: Double DJ Farms (EDGEMAR)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: EM
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 12/7 **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1 + TN

DESCRIPTION OF SAMPLE

1 DW-222 3.6
2
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12
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IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JLF	DLV	12-7-23 2:23	12-7-23 3:15
Second				
Third				
Fourth		DCL	12-7-23 15:33	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Double DJ Farms (EDGEMAR) .xls]Soil & Tissue

DocuSign Envelope ID: A19EF860-4D1D-4653-898D-043395686365

12/07/23 15:33 23L0405

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

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☐ Blue Ice ☒ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1									
Plastics	* pH Value	2									
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1									
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

SENDOUT

DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0984-01	DW - 202	Canal Water	DJF		12/13/2023 0:00
23L0984-02	DW - 208	Canal Water	DJF		12/13/2023 0:00
23L0984-03	DW - 171	Canal Water	DJF		12/13/2023 0:00

Default Cooler Temperature on Receipt °C: 1.3
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.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Double DJ Farms (EDGEMAR)
PO Box 429
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Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Sample Results

Sample: DW - 202
23L0984-01 (Water)

Sampled: 12/13/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.65**	mmhos/cm	0.01	1		12/18/23 17:04	SM 2510 B		BEL0701
Electrical Conductivity umhos	**1650**	umhos/cm	10.0	1		12/18/23 17:04	SM 2510 B		BEL0701
Nitrate Nitrogen as NO3N	**1.2**	mg/L	0.1	1	10	12/17/23 14:25	EPA 300.0		BEL0664
Temperature	**25.0**	units	0.0	1		12/18/23 17:04	SM 4500-H+	H	BEL0701
pH	**7.8**	units	1.0	1		12/18/23 17:04	SM 4500-H+	H	BEL0701
Total Filterable Solids (TDS)	**990**	mg/L	10.0	1		12/19/23 14:37	SM 2540 C		BEL0669
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/19/23 14:51	SM 4500-NH3 C		BEL0673
Total Nitrogen	**1.62**	mg/L	1.00	1		12/19/23 14:51	SM 4500-NH3 C		BEL0673

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PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Sample Results
(Continued)

Sample: DW - 208
23L0984-02 (Water)

Sampled: 12/13/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.24**	mmhos/cm	0.01	1		12/18/23 17:05	SM 2510 B		BEL0701
Electrical Conductivity umhos	**244**	umhos/cm	10.0	1		12/18/23 17:05	SM 2510 B		BEL0701
Nitrate Nitrogen as NO3N	**1.0**	mg/L	0.1	1	10	12/17/23 06:49	EPA 300.0		BEL0664
Temperature	**25.0**	units	0.0	1		12/18/23 17:05	SM 4500-H+	H	BEL0701
pH	**7.7**	units	1.0	1		12/18/23 17:05	SM 4500-H+	H	BEL0701
Total Filterable Solids (TDS)	**204**	mg/L	10.0	1		12/19/23 14:37	SM 2540 C		BEL0669
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/19/23 14:52	SM 4500-NH3 C		BEL0673
Total Nitrogen	ND	mg/L	1.00	1		12/19/23 14:52	SM 4500-NH3 C		BEL0673

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Sample Results
(Continued)

Sample: DW - 171
23L0984-03 (Water)

Sampled: 12/13/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.24**	mmhos/cm	0.01	1		12/18/23 17:06	SM 2510 B		BEL0701
Electrical Conductivity umhos	**237**	umhos/cm	10.0	1		12/18/23 17:06	SM 2510 B		BEL0701
Nitrate Nitrogen as NO3N	**1.3**	mg/L	0.1	1	10	12/17/23 14:44	EPA 300.0		BEL0664
Temperature	**25.0**	units	0.0	1		12/18/23 17:06	SM 4500-H+	H	BEL0701
pH	**7.3**	units	1.0	1		12/18/23 17:06	SM 4500-H+	H	BEL0701
Total Filterable Solids (TDS)	**190**	mg/L	10.0	1		12/19/23 14:37	SM 2540 C		BEL0669
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/19/23 14:54	SM 4500-NH3 C		BEL0673
Total Nitrogen	**1.58**	mg/L	1.00	1		12/19/23 14:54	SM 4500-NH3 C		BEL0673

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PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0664										
Blank (BEL0664-BLK1)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK2)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK3)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK4)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK5)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0664-BS1)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		104	90-110		
LCS (BEL0664-BS2)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
LCS (BEL0664-BS3)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
LCS (BEL0664-BS4)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		103	90-110		
Duplicate (BEL0664-DUP1)		**Source: 23L0865-01**			Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	3.8		0.1	mg/L		3.7			0.802	10
Duplicate (BEL0664-DUP2)		**Source: 23L0871-04**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L		5.2			0.155	10
Duplicate (BEL0664-DUP3)		**Source: 23L0984-02**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	1.0		0.1	mg/L		1.0			0.305	10
Duplicate (BEL0664-DUP4)		**Source: 23L0984-03**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	1.3		0.1	mg/L		1.3			1.68	10
Matrix Spike (BEL0664-MS1)		**Source: 23L0865-01**			Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	8.8		0.1	mg/L	5.000	3.7	101	90-110		
Matrix Spike (BEL0664-MS2)		**Source: 23L0871-04**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.2		0.1	mg/L	5.000	5.2	102	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0664 (Continued)										
Matrix Spike (BEL0664-MS3)			**Source: 23L0984-02**		Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	6.2		0.1	mg/L	5.000	1.0	104	90-110		
Matrix Spike (BEL0664-MS4)			**Source: 23L0984-03**		Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	6.5		0.1	mg/L	5.000	1.3	103	90-110		
Reference (BEL0664-SRM1)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEL0664-SRM2)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEL0664-SRM3)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		
Reference (BEL0664-SRM4)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		
Reference (BEL0664-SRM5)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0669										
Blank (BEL0669-BLK1)					Prepared: 12/18/2023	Analyzed: 12/19/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEL0669-BS1)					Prepared: 12/18/2023	Analyzed: 12/19/2023				
Total Filterable Solids (TDS)	27.5		10.0	mg/L	2000		1.38	0-200		
Duplicate (BEL0669-DUP1)			**Source: 23L0963-01**		Prepared: 12/18/2023	Analyzed: 12/19/2023				
Total Filterable Solids (TDS)	510		10.0	mg/L		490			4.00	10
Duplicate (BEL0669-DUP2)			**Source: 23L0983-02**		Prepared: 12/18/2023	Analyzed: 12/19/2023				
Total Filterable Solids (TDS)	960		10.0	mg/L		900			6.45	10
Reference (BEL0669-SRM1)					Prepared: 12/18/2023	Analyzed: 12/19/2023				
Total Filterable Solids (TDS)	393			mg/L	390.0		101	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0673										
Blank (BEL0673-BLK1)					Prepared: 12/18/2023	Analyzed: 12/19/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEL0673-BLK2)					Prepared: 12/18/2023	Analyzed: 12/19/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEL0673-BS1)					Prepared: 12/18/2023	Analyzed: 12/19/2023				
Kjeldahl Nitrogen (TKN), Total	5.91		1.00	mg/L	5.709		104	90-110		
Duplicate (BEL0673-DUP1)		**Source: 23L0983-02**			Prepared: 12/18/2023	Analyzed: 12/19/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEL0673-MS1)		**Source: 23L0983-02**			Prepared: 12/18/2023	Analyzed: 12/19/2023				
Kjeldahl Nitrogen (TKN), Total	5.05		1.40	mg/L	7.992	ND	63.2	90-110		
Reference (BEL0673-SRM1)					Prepared: 12/18/2023	Analyzed: 12/19/2023				
Kjeldahl Nitrogen (TKN), Total	30.4			mg/L	31.90		95.4	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0701										
Blank (BEL0701-BLK1)					Prepared & Analyzed: 12/18/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.5		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0701-BLK2)					Prepared & Analyzed: 12/18/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.7		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0701-BLK3)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	8.1		1.0	units						
Duplicate (BEL0701-DUP1)		**Source: 23L0985-02**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1.51		0.01	mmhos/cm		1.48			2.19	10
pH	7.7		1.0	units		7.7			0.130	10
Electrical Conductivity umhos	1510		10.0	umhos/cm		1480			2.19	10
Duplicate (BEL0701-DUP2)		**Source: 23L0989-03**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1.84		0.01	mmhos/cm		1.83			0.730	10
Electrical Conductivity umhos	1840		10.0	umhos/cm		1830			0.730	10
pH	8.7		1.0	units		8.7			0.00	10
Reference (BEL0701-SRM1)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	424			umhos/cm	426.0		99.6	90-110		
Reference (BEL0701-SRM2)					Prepared & Analyzed: 12/18/2023					
pH	7.5			units	7.520		100	67021-101.32		
Reference (BEL0701-SRM3)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEL0701-SRM4)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEL0701-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR
Ranch: EM

Received: 12/14/2023 15:45
Reported: 12/21/2023 09:28

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0701 (Continued)										
Reference (BEL0701-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEL0701-SRM6)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0701-SRM7)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0701-SRM8)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		

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12/14/23 15:45 23L0984

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-6174

JG No. Samples: 3 Material: Water

Purchase Order No | Bill To: 22215 Acct # | 09/08 Cons #

Name: Double DJ Farms (EDGEMAR)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: Em
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 12/13 **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1 + TN

DESCRIPTION OF SAMPLE

1	DW-202	0.3
2	DW-208	0.7
3	DW-171	1.0
4		
5		
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23		
24		

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JLF	DLV	12-14-23 1:32	12-14-23 3:41
Second				
Third				
Fourth		DLV	12/14 15:45	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Double DJ Farms (EDGEMAR) .xls]Soil & Tissue

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12/14/23 15:45 23L0984

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	* pH Value	<2	<2	<2							
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

SENDOUT

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DELLAVALLE™
LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K0934-01	EM - DOM DDJD	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 8:00
23K0934-02	EM - DOM DDJD Backup	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 8:05
23K0934-03	EM - DOM 225	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 8:15
23K0934-04	EM - DOM 226	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 8:20

Default Cooler Temperature on Receipt °C: 8.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Sample Results

Sample: EM - DOM DDJD
23K0934-01 (Water)

Sampled: 11/16/2023 8:00
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.35**	mmhos/cm	0.01	1		11/27/23 09:44	SM 2510 B		BEK0619
Electrical Conductivity umhos	**349**	umhos/cm	10.0	1		11/27/23 09:44	SM 2510 B		BEK0619
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**5.1**	mg/L	0.1	1	10	11/16/23 17:46	EPA 300.0		BEK0571
Temperature	**25.0**	units	0.0	1		11/27/23 09:44	SM 4500-H+	H	BEK0619
pH	**7.8**	units	1.0	1		11/27/23 09:44	SM 4500-H+	H	BEK0619

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Sample Results
(Continued)

Sample: EM - DOM DDJD Backup
23K0934-02 (Water)

Sampled: 11/16/2023 8:05
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.35**	mmhos/cm	0.01	1		11/27/23 09:46	SM 2510 B		BEK0619
Electrical Conductivity umhos	**349**	umhos/cm	10.0	1		11/27/23 09:46	SM 2510 B		BEK0619
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**5.1**	mg/L	0.1	1	10	11/16/23 18:06	EPA 300.0		BEK0571
Temperature	**25.0**	units	0.0	1		11/27/23 09:46	SM 4500-H+	H	BEK0619
pH	**7.8**	units	1.0	1		11/27/23 09:46	SM 4500-H+	H	BEK0619

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Sample Results
(Continued)

Sample: EM - DOM 225
23K0934-03 (Water)

Sampled: 11/16/2023 8:15
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.35**	mmhos/cm	0.01	1		11/27/23 09:47	SM 2510 B		BEK0619
Electrical Conductivity umhos	**347**	umhos/cm	10.0	1		11/27/23 09:47	SM 2510 B		BEK0619
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**5.2**	mg/L	0.1	1	10	11/16/23 21:05	EPA 300.0		BEK0571
Temperature	**25.0**	units	0.0	1		11/27/23 09:47	SM 4500-H+	H	BEK0619
pH	**7.8**	units	1.0	1		11/27/23 09:47	SM 4500-H+	H	BEK0619

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Sample Results
(Continued)

Sample: EM - DOM 226
23K0934-04 (Water)

Sampled: 11/16/2023 8:20
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.35**	mmhos/cm	0.01	1		11/27/23 09:48	SM 2510 B		BEK0619
Electrical Conductivity umhos	**347**	umhos/cm	10.0	1		11/27/23 09:48	SM 2510 B		BEK0619
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**5.5**	mg/L	0.1	1	10	11/17/23 03:04	EPA 300.0		BEK0571
Temperature	**25.0**	units	0.0	1		11/27/23 09:48	SM 4500-H+	H	BEK0619
pH	**7.7**	units	1.0	1		11/27/23 09:48	SM 4500-H+	H	BEK0619

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0571										
Blank (BEK0571-BLK1)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0571-BLK2)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0571-BLK3)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0571-BLK4)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEK0571-BS1)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		105	90-110		
LCS (BEK0571-BS2)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
LCS (BEK0571-BS3)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.7	90-110		
Duplicate (BEK0571-DUP1)		**Source: 23K0836-01**			Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L		5.2			1.95	10
Duplicate (BEK0571-DUP2)		**Source: 23K0891-01**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	2.2		0.1	mg/L		2.2			1.15	10
Duplicate (BEK0571-DUP3)		**Source: 23K0934-04**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L		5.5			0.290	10
Matrix Spike (BEK0571-MS1)		**Source: 23K0836-01**			Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	10.2		0.1	mg/L	5.000	5.2	101	90-110		
Matrix Spike (BEK0571-MS2)		**Source: 23K0891-01**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	7.2		0.1	mg/L	5.000	2.2	100	90-110		
Matrix Spike (BEK0571-MS3)		**Source: 23K0934-04**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	10.7		0.1	mg/L	5.000	5.5	104	90-110		
Reference (BEK0571-SRM1)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	9.7			mg/L	10.00		97.1	90-110		
Reference (BEK0571-SRM2)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	9.7			mg/L	10.00		97.5	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0571 (Continued)										
Reference (BEK0571-SRM3)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.2	90-110		
Reference (BEK0571-SRM4)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.4	90-110		

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Received: 11/16/2023 15:55
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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0619										
Blank (BEK0619-BLK1)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.5		1.0	units						
Blank (BEK0619-BLK2)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.9		1.0	units						
Blank (BEK0619-BLK3)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	6.1		1.0	units						
Duplicate (BEK0619-DUP1)		**Source: 23K0934-04**			Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	0.35		0.01	mmhos/cm		0.35			0.775	10
pH	7.8		1.0	units		7.7			1.29	10
Electrical Conductivity umhos	350		10.0	umhos/cm		347			0.775	10
Duplicate (BEK0619-DUP2)		**Source: 23K0939-02**			Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	0.58		0.01	mmhos/cm		0.58			0.310	10
Electrical Conductivity umhos	579		10.0	umhos/cm		581			0.310	10
pH	8.1		1.0	units		8.1			0.371	10
Reference (BEK0619-SRM1)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	557			umhos/cm	538.0		104	90-110		
Reference (BEK0619-SRM2)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
pH	7.6			units	7.520		101	67021-101.32		
Reference (BEK0619-SRM3)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEK0619-SRM4)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	1080			umhos/cm	1000		108	90-110		
Electrical Conductivity umhos	1080			umhos/cm	1000		108	90-110		
Reference (BEK0619-SRM5)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		

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DELLAVALLE™ LABORATORY INC

Double DJ Farms (EDGEMAR)
PO Box 429
Chowchilla, CA 93610

Account# 00-0022215
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/29/2023 12:11

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0619 (Continued)										
Reference (BEK0619-SRM5)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEK0619-SRM6)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEK0619-SRM7)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEK0619-SRM8)					Prepared: 11/17/2023	Analyzed: 11/27/2023				
pH	4.0			units	4.000		101	97.5-102.5		

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WATER WORK REQUEST

DELLAVALLE LABORATORY, INC.
1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

Purchase Order No

Bill To: Acct # 22215 Cons # 09 / 08

Results Need By

No. Samples: No of Bottles:

Water Type: [X] Drinking Water [ ] Wastewater [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

Name: Double DJ Farms (EDGEMAR)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: dejagerfarms@gmail.com; krhodes@fragservices.com
ddj2x@aol.com; ariordan@fragservices.com; dustino_56@hotmail.com
REQUESTED BY: FR Ag
PROJECT:
CROP: FRESHWATER

[X] Copy of Chain [X] QA/QC Documents
Sampled By: FR Ag

Analysis and Bottles Required: (*Please indicate Analysis*)

(X) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	Em- DOM DDJD	11/16	0800	8.6	
2	Em - DOM DDJD Backup		805	10.8	
3	Em - DOM 225		00815	7.9	
4	Em - DOM 226		0820	8.1	
5					
6					
7					
8					
9					
10					

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

11/16/23 15:55 23K0934

JG

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		FR Ag	11/16 0800	
Second		DLV	11-16-23 1:55	11-16-23 3:25
Third		DLV	11-16-23 15:55	
Fourth				

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

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

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Double DJ Farms (EDGEMAR) Water.xls]Dairy Water

DocuSign Envelope ID: A19EF860-4D1D-4653-898D-043395686365

11/16/23 15:55 23K0934

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1	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 $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

SEND OUT

DocuSign Envelope ID: A19EF860-4D1D-4653-898D-043395686365

WATER WORK REQUEST

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: 4 No of Bottles: 4

Purchase Order No

Bill To: 22215 Acct # | 09 / 08 Cons #

Results Need By

Water Type: [X] Drinking Water [ ] Wastewater [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

Name: Double DJ Farms (EDGEMAR)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: dejagerfarms@gmail.com; krhodes@fragservices.com
ddj2x@aol.com; ariordan@fragservices.com; dustino_56@hotmail.com
REQUESTED BY: FR Ag
PROJECT:
CROP: FRESHWATER

[X] Copy of Chain [X] QA/QC Documents
Sampled By: FR Ag

Analysis and Bottles Required: (*Please indicate Analysis*)

(X) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	Em- DOM DDJD	11/16	0800	8.6	
2	Em - DOM DDJD Backup		805	10.8	
3	Em - DOM 225		00815	7.9	
4	Em - DOM 226		0820	8.1	
5					
6					
7					
8					
9	Laura 11/20/23 11:58 - rm for Alex				
10					

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

11/16/23 15:55 23K0934 JG

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		FR Ag	11/16 0800	
Second		DLV	11-16-23 1:55	11-16-23 3:25
Third		DLV	11-16-23 15:55	
Fourth				

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

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Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Double DJ Farms (EDGEMAR) Water.xls]Dairy Water

DocuSign Envelope ID: A19EF860-4D1D-4653-898D-043395686365

11/16/23 15:55 23K0934

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

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
Special	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 $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

DRAFT
SEND OUT