

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: Contente & Company

Physical address of dairy:

7900 15th Ave Number and Street	Hanford City	Kings County	93230 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 06/15/1940

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0005-0010-0004-0000	0005-0010-0005-0000
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B. OPERATORS

Contente, Claudine

Operator name: <u>Contente, Claudine</u>	Telephone no.: <u>(559) 584-8248</u>	<u>(559) 469-3295</u>
	<u>Landline</u>	<u>Cellular</u>
7908 15th AVE Mailing Address Number and Street	hanford City	CA State
		93230 Zip Code

Contente, Joaquin Cardoso Jr

Operator name: <u>Contente, Joaquin Cardoso Jr</u>	Telephone no.: <u>(559) 584-2357</u>	<u>(559) 779-0526</u>
	<u>Landline</u>	<u>Cellular</u>
7900 15th AVE Mailing Address Number and Street	Hanford City	CA State
		93230 Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

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

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

Contente, Joaquin Cardoso Jr

Legal owner name: Contente, Joaquin Cardoso Jr	Telephone no.: (559) 584-2357	(559) 779-0526
	Landline	Cellular
7900 15th AVE	Hanford	CA
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	140	120	0	0
Number under roof	810	110	20	0	140	150
Maximum number	820	130	170	130	140	160
Average number	810	110	140	120	130	140
Avg live weight (lbs)	1,200	1,300	1,050	600		

Predominant milk cow breed: Jersey

Average milk production: 60 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 24,881.66 tons per reporting period

Total nitrogen from manure: 317,774.75 lbs per reporting period

After ammonia losses (30% loss applied): 222,442.33 lbs per reporting period

Total phosphorus from manure: 51,505.82 lbs per reporting period

Total potassium from manure: 149,800.77 lbs per reporting period

Total salt from manure: 406,683.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 15,199,175 gallons

Total nitrogen generated: 46,833.44 lbs

$$\begin{array}{r}
 15,199,175 \text{ gallons applied} \\
 + \quad \quad \quad 0 \text{ gallons exported} \\
 - \quad \quad \quad 0 \text{ gallons imported} \\
 = \quad \quad \quad 15,199,175 \text{ gallons generated}
 \end{array}$$

Total phosphorus generated: 14,137.96 lbs

Total potassium generated: 111,397.52 lbs

Total salt generated: 363,549.10 lbs

D. FRESH WATER SOURCES

Source Description	Type
15904 Fargo domestic	Ground water
16th	Ground water
17th	Ground water
7590. 16th Domestic	Ground water
7900 16th domestic	Ground water

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

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

Source Description	Type
7908 15th domestic	Ground water
7976 domestic	Ground water
Barn Domestic	Ground water
Bridge	Ground water
Canal	Surface water
Claudine's	Ground water
Comm	Ground water
Diesel	Ground water
E Jacc	Ground water
Fargo	Ground water
Fargo Flush	Ground water
Horse Ranch	Ground water
Jacc 50hp	Ground water
Jacc 5hp	Ground water
Manuel's	Ground water
New Barn domestic	Ground water
NW	Ground water
Perry	Ground water
Shop	Ground water
W 17th	Ground water

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

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/02/2023	Corral solids	1,620.00 ton	Dry-weight	29.6		20,521.00	6,639.00	19,996.00		25.60
11/17/2023	Corral solids	550.00 ton	Dry-weight	29.6		20,521.00	6,639.00	19,996.00		25.60

No liquid nutrient exports entered.

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)
Dry manure	62,699.04	20,284.54	61,094.98	782,172.16
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	62,699.04	20,284.54	61,094.98	782,172.16

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
15 th	25	25	3	both	0005-0010-0004-0000
17 acres	17	17	3	both	0005-0100-0013-0000
Center Jacc	8	8	7	process wastewater	0004-0180-0012-0000
Claudines	30	28	3	both	0005-0010-0011-0000 0005-0010-0012-0000
E Center 17th	30	30	5	process wastewater	0004-0180-0012-0000
E. 17th	20	20	6	none	0004-0180-0012-0000
Fargo	16	16	3	both	0005-0010-0004-0000
Manuels	20	20	7	process wastewater	0004-0180-0011-0000
N 50	25	25	8	process wastewater	0004-0180-0011-0000
N Davids	17	17	8	process wastewater	0004-0180-0012-0000
N Jacc	25	25	7	process wastewater	0004-0180-0012-0000
NW	13	13	3	both	0005-0010-0004-0000
S 50	25	25	7	process wastewater	0004-0180-0011-0000
S Davids	5	5	3	both	0004-0180-0012-0000
S Jacc	17	17	2	both	0004-0180-0012-0000
W 17th	17	17	2	both	0004-0180-0012-0000
WCenter 17th	18	18	2	both	0004-0180-0012-0000
Totals for areas that were used for application	308	306	73		
Totals for areas that were not used for application	20	20	6		
Land application area totals	328	326	79		

B. CROPS AND HARVESTS

15 th

Field name: 15 th

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

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

15 th

10/31/2022: 50% Rye grass/ 50% Barley

Crop: 50% Rye grass/ 50% Barley Acres planted: 25 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/20/2023	671.00 ton	Dry-weight		74.9	15,650.00	3,850.00	36,300.00		11.70
06/06/2023	352.00 ton	Dry-weight		63.0	11,503.00	2,850.00	28,100.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	11.00	264.00	39.60	294.80	0.00
Total actual harvest content	40.92	330.72	81.57	781.87	2,910.08

07/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 Plant date: 07/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	660.00 ton	Dry-weight		67.0	21,550.00	4,070.00	17,900.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	171.60	0.00
Total actual harvest content	26.40	375.49	70.92	311.89	1,149.98

17 acres

Field name: 17 acres

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

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

17 acres

11/14/2022: 50% Rye grass / 50% Barley

Crop: 50% Rye grass / 50% Barley Acres planted: 17 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/12/2023	297.00 ton	Dry-weight		79.0	24,196.00	5,410.00	45,000.00		14.90
06/19/2023	77.00 ton	Dry-weight		66.0	15,140.00	2,660.00	18,500.00		66.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	11.00	264.00	39.60	294.80	0.00
Total actual harvest content	22.00	224.17	47.89	387.17	3,138.43

07/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 17 Plant date: 07/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/06/2023	445.00 ton	Dry-weight		69.0	24,546.00	2,940.00	12,100.00		5.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	171.60	0.00
Total actual harvest content	26.18	398.37	47.71	196.38	860.16

Center Jacc

Field name: Center Jacc

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

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

Center Jacc

10/29/2015: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: _____ 8 Plant date: 10/29/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
02/21/2023	30.00 ton	Dry-weight		51.0	18,068.00	4,160.00	15,400.00		12.10
04/07/2023	25.00 ton	Dry-weight		51.0	18,068.00	4,160.00	15,400.00		12.10
05/27/2023	25.00 ton	Dry-weight		51.0	18,068.00	4,160.00	15,400.00		12.10
06/30/2023	25.00 ton	Dry-weight		51.0	18,068.00	4,160.00	15,400.00		12.10
08/24/2023	37.50 ton	Dry-weight		51.0	18,068.00	4,160.00	15,400.00		12.10
09/28/2023	31.25 ton	Dry-weight		68.0	39,790.00	3,110.00	20,000.00		13.80
11/25/2023	50.00 ton	Dry-weight		68.0	39,790.00	3,110.00	20,000.00		13.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	7.00	350.00	35.00	245.00	0.00
Total actual harvest content	27.97	574.03	92.83	398.83	3,009.21

Claudines

Field name: Claudines

11/14/2022: 50% Rye grass / 50% Barley

Crop: 50% Rye grass / 50% Barley Acres planted: _____ 28 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	341.00 ton	Dry-weight		76.0	28,120.00	4,490.00	39,400.00		15.00
06/19/2023	154.00 ton	Dry-weight		64.0	11,990.00	3,070.00	17,700.00		64.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	11.00	264.00	39.60	294.80	0.00
Total actual harvest content	17.68	211.86	38.40	300.41	3,411.26

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

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

Claudines

07/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 28 Plant date: 07/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/03/2023	726.00 ton	Dry-weight		65.0	23,546.00	2,700.00	11,800.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	171.60	0.00
Total actual harvest content	25.93	427.36	49.01	214.17	1,433.85

E Center 17th

Field name: E Center 17th

11/02/2017: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 30 Plant date: 11/02/2017

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/08/2023	118.75 ton	Dry-weight		70.0	32,496.00	3,010.00	17,500.00		11.00
05/06/2023	100.00 ton	Dry-weight		70.0	32,496.00	3,010.00	17,500.00		11.00
06/15/2023	87.50 ton	Dry-weight		70.0	32,496.00	3,010.00	17,500.00		11.00
09/16/2023	112.50 ton	Dry-weight		70.0	32,496.00	3,010.00	17,500.00		11.00
11/01/2023	112.50 ton	Dry-weight		70.0	32,496.00	3,010.00	17,500.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	7.00	350.00	35.00	245.00	0.00
Total actual harvest content	17.71	345.27	31.98	185.94	1,168.75

E. 17th

Field name: E. 17th

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

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

E. 17th

11/22/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 20 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/29/2023	50.00 ton	Dry-weight		56.0	39,128.00	3,770.00	35,700.00		15.30
06/26/2023	56.25 ton	Dry-weight		56.0	39,128.00	3,770.00	35,700.00		15.30
08/12/2023	62.50 ton	Dry-weight		56.0	39,128.00	3,770.00	35,700.00		15.30
09/18/2023	31.25 ton	Dry-weight		56.0	39,128.00	3,770.00	35,700.00		15.30
11/02/2023	60.00 ton	Dry-weight		76.0	40,388.00	3,500.00	30,700.00		16.60
12/01/2023	37.50 ton	Dry-weight		76.0	40,388.00	3,500.00	30,700.00		16.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	14.88	438.83	41.37	386.00	1,734.84

Fargo

Field name: Fargo

10/07/2022: 50% Rye grass/ 50% Barley

Crop: 50% Rye grass/ 50% Barley Acres planted: 16 Plant date: 10/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
02/04/2023	206.25 ton	Dry-weight		80.0	28,120.00	5,200.00	39,400.00		14.40
05/09/2023	231.00 ton	Dry-weight		79.0	30,184.00	4,360.00	43,900.00		15.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	11.00	264.00	39.60	294.80	0.00
Total actual harvest content	27.33	328.02	53.25	469.35	1,652.06

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

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

Fargo

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 16 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/23/2023	412.50 ton	Dry-weight		75.0	25,040.00	3,410.00	18,200.00		8.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	171.60	0.00
Total actual harvest content	25.78	322.78	43.96	234.61	1,095.70

ManuelsField name: Manuels

03/23/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 20 Plant date: 03/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/08/2023	118.75 ton	Dry-weight		60.0	34,666.00	3,980.00	39,500.00		16.70
05/13/2023	118.75 ton	Dry-weight		60.0	34,666.00	3,980.00	39,500.00		16.70
06/12/2023	100.00 ton	Dry-weight		60.0	34,666.00	3,980.00	39,500.00		16.70
07/07/2023	125.00 ton	Dry-weight		60.0	34,666.00	3,980.00	39,500.00		16.70
09/05/2023	87.50 ton	Dry-weight		75.0	42,200.00	3,710.00	30,800.00		16.20
10/14/2023	100.00 ton	Dry-weight		75.0	42,200.00	3,710.00	30,800.00		16.20
11/30/2023	112.50 ton	Dry-weight		75.0	42,200.00	3,710.00	30,800.00		16.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	38.13	957.82	101.46	961.75	4,304.50

N 50Field name: N 50

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

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

N 50

10/16/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 25 Plant date: 10/16/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
02/08/2023	75.00 ton	Dry-weight		76.0	37,772.00	4,020.00	14,200.00		11.70
03/27/2023	75.00 ton	Dry-weight		69.0	32,496.00	3,010.00	17,500.00		11.00
05/01/2023	125.00 ton	Dry-weight		69.0	32,496.00	3,010.00	17,500.00		11.00
06/01/2023	125.00 ton	Dry-weight		69.0	32,496.00	3,010.00	17,500.00		11.00
07/03/2023	112.50 ton	Dry-weight		69.0	32,496.00	3,010.00	17,500.00		11.00
08/01/2023	125.00 ton	Dry-weight		76.0	37,772.00	4,020.00	14,200.00		11.70
10/09/2023	112.50 ton	Dry-weight		76.0	37,772.00	4,020.00	14,200.00		11.70
11/24/2023	87.50 ton	Dry-weight		76.0	37,772.00	4,020.00	14,200.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	7.50	450.00	40.50	315.00	0.00
Total actual harvest content	33.50	642.67	63.53	298.93	2,092.06

N DavidsField name: N Davids

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

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

N Davids

12/05/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 17 Plant date: 12/05/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/09/2023	125.00 ton	Dry-weight		77.9	36,010.00	3,710.00	29,000.00		20.40
05/03/2023	150.00 ton	Dry-weight		77.9	36,010.00	3,710.00	29,000.00		20.40
06/10/2023	125.00 ton	Dry-weight		77.9	36,010.00	3,710.00	29,000.00		20.40
07/05/2023	100.00 ton	Dry-weight		77.9	36,010.00	3,710.00	29,000.00		20.40
08/08/2023	106.00 ton	Dry-weight		66.0	30,100.00	3,158.00	24,792.00		15.20
09/08/2023	75.00 ton	Dry-weight		66.0	30,100.00	3,158.00	24,792.00		15.20
10/26/2023	75.00 ton	Dry-weight		66.0	30,100.00	3,158.00	24,792.00		15.20
12/08/2023	50.00 ton	Dry-weight		66.0	30,100.00	3,158.00	24,792.00		15.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	7.00	420.00	37.80	266.00	0.00
Total actual harvest content	47.41	836.55	86.88	680.45	4,512.48

N Jacc

Field name: N Jacc

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

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

N Jacc

10/29/2015: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 25 Plant date: 10/29/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
02/21/2023	93.75 ton	Dry-weight		71.0	23,430.00	4,600.00	37,700.00		18.20
04/26/2023	125.00 ton	Dry-weight		71.0	23,430.00	4,600.00	37,700.00		18.20
05/26/2023	112.50 ton	Dry-weight		71.0	23,430.00	4,600.00	37,700.00		18.20
07/04/2023	143.75 ton	Dry-weight		69.0	41,230.00	2,960.00	23,300.00		11.70
08/24/2023	125.00 ton	Dry-weight		69.0	41,230.00	2,960.00	23,300.00		11.70
09/28/2023	125.00 ton	Dry-weight		69.0	41,230.00	2,960.00	23,300.00		11.70
11/22/2023	81.25 ton	Dry-weight		69.0	41,230.00	2,960.00	23,300.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	300.00	30.00	210.00	0.00
Total actual harvest content	32.25	665.75	70.22	564.20	2,776.93

NW

Field name: NW

10/29/2022: 50% Rye grass/ 50% Barley

Crop: 50% Rye grass/ 50% Barley Acres planted: 13 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
02/21/2023	132.00 ton	Dry-weight		75.0	43,410.00	6,430.00	56,000.00		20.60
05/10/2023	220.00 ton	Dry-weight		75.0	16,634.00	4,160.00	43,100.00		17.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	11.00	264.00	39.60	294.80	0.00
Total actual harvest content	27.08	361.14	67.84	649.00	2,484.31

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

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

NW

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 13 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 (%)
09/07/2023	353.00 <i>ton</i>	Dry-weight		72.0	23,886.00	2,710.00	22,000.00		7.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	171.60	0.00
Total actual harvest content	27.15	363.21	41.21	334.54	1,170.87

S 50Field name: S 50

10/16/2019: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 25 Plant date: 10/16/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/27/2023	75.00 <i>ton</i>	Dry-weight		69.0	28,646.00	3,490.00	18,400.00		12.20
05/10/2023	125.00 <i>ton</i>	Dry-weight		69.0	28,646.00	3,490.00	18,400.00		12.20
06/05/2023	125.00 <i>ton</i>	Dry-weight		69.0	28,646.00	3,490.00	18,400.00		12.20
07/03/2023	112.50 <i>ton</i>	Dry-weight		69.0	28,646.00	3,490.00	18,400.00		12.20
08/01/2023	125.00 <i>ton</i>	Dry-weight		75.0	36,298.00	4,080.00	18,000.00		13.00
10/10/2023	125.00 <i>ton</i>	Dry-weight		75.0	36,298.00	4,080.00	18,000.00		13.00
11/24/2023	100.00 <i>ton</i>	Dry-weight		75.0	36,298.00	4,080.00	18,000.00		13.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	7.00	378.00	35.00	266.00	0.00
Total actual harvest content	31.50	564.90	66.43	325.64	2,233.70

S DavidsField name: S Davids

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

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

S Davids

11/14/2022: 50% Rye grass / 50% Barley

Crop: 50% Rye grass / 50% Barley Acres planted: _____ 5 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/09/2023	44.00 ton	Dry-weight		82.9	26,370.00	5,030.00	47,300.00		26.00
05/15/2023	66.00 ton	Dry-weight		71.0	23,400.00	4,000.00	33,300.00		14.20
		Yield (tons/acre)		Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)		
Anticipated harvest content		11.00		264.00	39.60	294.80	0.00		
Total actual harvest content		22.00		258.51	45.76	397.30	1,869.65		

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 5 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/07/2023	132.00 ton	Dry-weight		69.0	20,514.00	3,290.00	17,300.00		69.50
		Yield (tons/acre)		Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)		
Anticipated harvest content		26.00		208.00	39.00	171.60	0.00		
Total actual harvest content		26.40		335.77	53.85	283.17	11,375.76		

S Jacc

Field name: S Jacc

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 17 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/24/2023	519.75 ton	Dry-weight		79.0	31,518.00	5,410.00	36,200.00		15.50
		Yield (tons/acre)		Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)		
Anticipated harvest content		28.00		224.00	42.00	184.80	0.00		
Total actual harvest content		30.57		404.72	69.47	464.84	1,990.34		

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

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

S Jacc

09/02/2023: Sudangrass, silage

Crop: Sudangrass, silage Acres planted: 17 Plant date: 09/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/07/2023	242.00 ton	Dry-weight		79.0	25,070.00	3,090.00	24,600.00		13.80
Anticipated harvest content									
Total actual harvest content									

W 17th

Field name: W 17th

12/26/2022: 50% Rye grass / 50% Barley

Crop: 50% Rye grass / 50% Barley Acres planted: 17 Plant date: 12/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/30/2023	425.00 ton	Dry-weight		71.0	16,771.00	3,810.00	28,800.00		10.00
Anticipated harvest content									
Total actual harvest content									

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 17 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	429.00 ton	Dry-weight		66.0	19,375.00	4,110.00	18,400.00		9.60
Anticipated harvest content									
Total actual harvest content									

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

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

WCenter 17th

Field name: WCenter 17th

04/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 04/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/16/2023	504.00 ton	Dry-weight		60.0	8,870.00	4,590.00	13,200.00		8.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	93.60	696.80	0.00
Total actual harvest content	28.00	198.69	102.82	295.68	1,859.20

09/03/2023: Sudangrass, silage

Crop: Sudangrass, silage Acres planted: 18 Plant date: 09/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/02/2023	225.00 ton	Dry-weight		78.0	19,102.00	3,700.00	29,300.00		22.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	88.00	13.60	96.00	0.00
Total actual harvest content	12.50	105.06	20.35	161.15	1,210.00

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

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

NUTRIENT BUDGET

A. LAND APPLICATIONS

15 th - 10/31/2022: 50% Rye grass/ 50% Barley

Field name: 15 th

Crop: 50% Rye grass/ 50% Barley Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/13/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral	Corral solids	262.46	79.95	308.79	3,560.40	150.00 ton
Application event totals		262.46	79.95	308.79	3,560.40	
01/06/2023	Pipeline	Light rain	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Spit	Process wastewater	83.26	44.79	483.76	1,272.11	639,000.00 gal
Shop	Ground water	0.88	0.00	0.00	117.74	852,000.00 gal
NW	Ground water	2.14	0.00	0.00	71.03	958,500.00 gal
Claudine's	Ground water	2.72	0.00	0.00	113.26	958,500.00 gal
Manuel's	Ground water	1.15	0.00	0.00	44.15	958,500.00 gal
W 17th	Ground water	0.37	0.00	0.00	88.73	852,000.00 gal
Application event totals		90.53	44.79	483.76	1,707.03	
04/22/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NW	Ground water	2.11	0.00	0.00	70.03	945,000.00 gal
17th	Ground water	0.48	0.00	0.00	74.87	958,500.00 gal
Jacc 5hp	Ground water	2.82	0.00	0.00	88.22	937,200.00 gal
Manuel's	Ground water	1.14	0.00	0.00	43.53	945,000.00 gal
W 17th	Ground water	0.36	0.00	0.00	87.48	840,000.00 gal
Application event totals		6.91	0.00	0.00	364.13	

15 th - 07/14/2023: Corn, silage

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

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

15 th - 07/14/2023: Corn, silage

Field name: 15 th

Crop: Corn, silage

Plant date: 07/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/23/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	81.39	15.66	176.07	617.83	594,000.00 gal
17th	Ground water	0.49	0.00	0.00	75.92	972,000.00 gal
Jacc 5hp	Ground water	2.85	0.00	0.00	89.43	950,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	182.66	2,880,000.00 gal
Shop	Ground water	0.89	0.00	0.00	119.40	864,000.00 gal
NW	Ground water	2.17	0.00	0.00	72.03	972,000.00 gal
Claudine's	Ground water	2.76	0.00	0.00	114.86	972,000.00 gal
Application event totals		90.56	15.66	176.07	1,272.12	
06/19/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	262.46	79.95	308.79	3,560.40	150.00 ton
Application event totals		262.46	79.95	308.79	3,560.40	
08/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	200.41	3,160,000.00 gal
Shop	Ground water	0.98	0.00	0.00	131.01	948,000.00 gal
NW	Ground water	2.39	0.00	0.00	79.03	1,066,500.00 gal
Claudine's	Ground water	3.03	0.00	0.00	126.02	1,066,500.00 gal
Manuel's	Ground water	1.28	0.00	0.00	49.13	1,066,500.00 gal
Perry	Ground water	0.54	0.00	0.00	62.66	948,000.00 gal
Application event totals		8.21	0.00	0.00	648.26	

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

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

15 th - 07/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	90.90	4.20	21.85	194.24	648,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	182.66	2,880,000.00 gal
Shop	Ground water	0.89	0.00	0.00	119.40	864,000.00 gal
NW	Ground water	2.17	0.00	0.00	72.03	972,000.00 gal
Claudine's	Ground water	2.76	0.00	0.00	114.86	972,000.00 gal
Perry	Ground water	0.49	0.00	0.00	57.10	864,000.00 gal
Application event totals		97.22	4.20	21.85	740.28	
09/29/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	180.12	2,840,000.00 gal
Shop	Ground water	0.89	0.00	0.00	119.40	864,000.00 gal
NW	Ground water	2.14	0.00	0.00	70.99	958,000.00 gal
Manuel's	Ground water	1.15	0.00	0.00	44.15	958,500.00 gal
Claudine's	Ground water	2.72	0.00	0.00	113.26	958,500.00 gal
Application event totals		6.91	0.00	0.00	527.92	

17 acres - 11/14/2022: 50% Rye grass / 50% Barley

Field name: 17 acres

Crop: 50% Rye grass / 50% Barley

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/17/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	153.34	41.48	289.70	822.62	511,850.00 gal
Diesel	Ground water	0.00	0.00	0.00	216.38	2,320,000.00 gal
NW	Ground water	2.58	0.00	0.00	85.33	783,000.00 gal
Manuel's	Ground water	1.38	0.00	0.00	53.04	783,000.00 gal
Application event totals		157.30	41.48	289.70	1,177.37	

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

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

17 acres - 11/14/2022: 50% Rye grass / 50% Barley

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	227.57	2,440,000.00 gal
NW	Ground water	2.71	0.00	0.00	89.74	823,500.00 gal
Manuel's	Ground water	1.46	0.00	0.00	55.79	823,500.00 gal
Application event totals		4.16	0.00	0.00	373.10	

17 acres - 07/16/2023: Corn, silage

Field name: 17 acres

Crop: Corn, silage

Plant date: 07/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/21/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
16th	Ground water	1.31	0.00	0.00	142.51	864,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	268.61	2,880,000.00 gal
Manuel's	Ground water	1.72	0.00	0.00	65.84	972,000.00 gal
Claudine's	Ground water	4.06	0.00	0.00	168.91	972,000.00 gal
Application event totals		7.09	0.00	0.00	645.87	
06/20/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	257.31	78.39	302.74	3,490.59	100.00 ton
Application event totals		257.31	78.39	302.74	3,490.59	

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

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

17 acres - 07/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/14/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	118.83	5.49	28.56	253.91	576,000.00 gal
16th	Ground water	1.17	0.00	0.00	126.67	768,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	238.77	2,560,000.00 gal
NW	Ground water	2.84	0.00	0.00	94.16	864,000.00 gal
Claudine's	Ground water	4.06	0.00	0.00	168.91	972,000.00 gal
Application event totals		126.89	5.49	28.56	882.41	
09/15/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	231.30	2,480,000.00 gal
NW	Ground water	2.75	0.00	0.00	91.21	837,000.00 gal
Claudine's	Ground water	3.49	0.00	0.00	145.45	837,000.00 gal
Manuel's	Ground water	1.48	0.00	0.00	56.70	837,000.00 gal
Application event totals		7.72	0.00	0.00	524.66	
10/19/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
16th	Ground water	1.10	0.00	0.00	118.75	720,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	223.84	2,400,000.00 gal
NW	Ground water	2.66	0.00	0.00	88.27	810,000.00 gal
Claudine's	Ground water	3.38	0.00	0.00	140.76	810,000.00 gal
Application event totals		7.14	0.00	0.00	571.62	

Center Jacc - 10/29/2015: Alfalfa, hay

Field name: Center Jacc

Crop: Alfalfa, hay

Plant date: 10/29/2015

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

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

Center Jacc - 10/29/2015: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/26/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	84.28	45.34	489.72	1,287.79	207,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	224.56	1,380,000.00 gal
Application event totals		84.28	45.34	489.72	1,512.35	
03/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Jacc 50hp	Ground water	0.00	0.00	0.00	229.45	1,410,000.00 gal
Application event totals		0.00	0.00	0.00	229.45	
04/20/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	1.04	0.00	0.00	161.47	661,500.00 gal
Canal	Surface water	0.00	0.00	0.00	13.03	735,000.00 gal
Application event totals		1.04	0.00	0.00	174.50	
05/29/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	1.01	0.00	0.00	158.17	648,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.77	720,000.00 gal
Application event totals		1.01	0.00	0.00	170.94	
07/02/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	1.04	0.00	0.00	161.47	661,500.00 gal
Canal	Surface water	0.00	0.00	0.00	13.03	735,000.00 gal
Application event totals		1.04	0.00	0.00	174.50	

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

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

Center Jacc - 10/29/2015: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	1.04	0.00	0.00	161.47	661,500.00 gal
Canal	Surface water	0.00	0.00	0.00	13.03	735,000.00 gal
Application event totals		1.04	0.00	0.00	174.50	
10/30/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	1.06	0.00	0.00	164.76	675,000.00 gal
Canal	Surface water	0.00	0.00	0.00	26.60	1,500,000.00 gal
Application event totals		1.06	0.00	0.00	191.36	
12/13/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Jacc 50hp	Ground water	0.00	0.00	0.00	244.09	1,500,000.00 gal
Application event totals		0.00	0.00	0.00	244.09	

Claudines - 11/14/2022: 50% Rye grass / 50% Barley

Field name: Claudines

Crop: 50% Rye grass / 50% Barley

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/01/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Comm	Ground water	2.64	0.00	0.00	81.69	972,000.00 gal
NW	Ground water	1.94	0.00	0.00	64.31	972,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	165.35	2,920,000.00 gal
Claudine's	Ground water	2.50	0.00	0.00	103.97	985,500.00 gal
Application event totals		7.07	0.00	0.00	415.33	

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

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

Claudines - 11/14/2022: 50% Rye grass / 50% Barley

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/13/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	109.54	29.63	206.95	587.66	602,250.00 gal
Comm	Ground water	2.67	0.00	0.00	82.83	985,500.00 gal
NW	Ground water	1.97	0.00	0.00	65.20	985,500.00 gal
Diesel	Ground water	0.00	0.00	0.00	165.35	2,920,000.00 gal
Claudine's	Ground water	2.46	0.00	0.00	102.55	972,000.00 gal
Application event totals		116.65	29.63	206.95	1,003.59	

Claudines - 07/12/2023: Corn, silage

Field name: Claudines

Crop: Corn, silage

Plant date: 07/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	257.98	83.46	251.38	3,218.29	250.00 ton
Application event totals		257.98	83.46	251.38	3,218.29	
06/26/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	23.57	9.95	60.70	311.73	657,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	165.35	2,920,000.00 gal
Perry	Ground water	0.44	0.00	0.00	51.69	876,000.00 gal
Comm	Ground water	2.67	0.00	0.00	82.83	985,500.00 gal
NW	Ground water	1.97	0.00	0.00	65.20	985,500.00 gal
Manuel's	Ground water	1.06	0.00	0.00	40.51	985,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	8.26	744,600.00 gal
16th	Ground water	0.81	0.00	0.00	87.72	876,000.00 gal
Application event totals		30.57	9.95	60.70	813.29	

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

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

Claudines - 07/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/06/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	167.62	2,960,000.00 gal
Perry	Ground water	0.45	0.00	0.00	52.40	888,000.00 gal
NW	Ground water	1.99	0.00	0.00	66.10	999,000.00 gal
Claudine's	Ground water	2.53	0.00	0.00	105.40	999,000.00 gal
Comm	Ground water	2.71	0.00	0.00	83.96	999,000.00 gal
Manuel's	Ground water	1.04	0.00	0.00	39.98	972,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	8.37	754,800.00 gal
Application event totals		8.79	0.00	0.00	523.82	
09/04/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	59.95	39.11	145.04	575.33	648,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	163.09	2,880,000.00 gal
Perry	Ground water	0.44	0.00	0.00	50.99	864,000.00 gal
NW	Ground water	1.94	0.00	0.00	64.31	972,000.00 gal
Claudine's	Ground water	2.46	0.00	0.00	102.55	972,000.00 gal
Manuel's	Ground water	1.04	0.00	0.00	39.98	972,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	8.14	734,400.00 gal
Application event totals		65.89	39.11	145.04	1,004.38	
10/02/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	167.62	2,960,000.00 gal
Shop	Ground water	0.82	0.00	0.00	109.57	888,000.00 gal
NW	Ground water	1.99	0.00	0.00	66.10	999,000.00 gal
Claudine's	Ground water	2.53	0.00	0.00	105.40	999,000.00 gal
Comm	Ground water	2.71	0.00	0.00	83.96	999,000.00 gal
Manuel's	Ground water	1.07	0.00	0.00	41.09	999,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	8.48	764,800.00 gal
Application event totals		9.19	0.00	0.00	582.21	

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

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

E Center 17th - 11/02/2017: Alfalfa, hay

Field name: E Center 17th

Crop: Alfalfa, hay

Plant date: 11/02/2017

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
S pit	Process wastewater	58.63	31.54	340.68	895.85	540,000.00 gal
17th	Ground water	0.34	0.00	0.00	52.72	810,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	126.84	2,400,000.00 gal
NW	Ground water	1.51	0.00	0.00	50.02	810,000.00 gal
Comm	Ground water	2.05	0.00	0.00	63.54	810,000.00 gal
Application event totals		62.53	31.54	340.68	1,188.98	
03/23/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	133.19	2,520,000.00 gal
NW	Ground water	1.59	0.00	0.00	52.52	850,500.00 gal
Manuel's	Ground water	0.85	0.00	0.00	32.65	850,500.00 gal
Comm	Ground water	2.15	0.00	0.00	66.72	850,500.00 gal
Application event totals		4.59	0.00	0.00	285.07	
05/13/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.32	0.00	0.00	49.21	756,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	72.90	1,680,000.00 gal
Manuel's	Ground water	0.76	0.00	0.00	29.02	756,000.00 gal
W 17th	Ground water	0.24	0.00	0.00	58.32	672,000.00 gal
Claudine's	Ground water	1.79	0.00	0.00	74.44	756,000.00 gal
Canal	Surface water	0.00	0.00	0.00	3.97	840,000.00 gal
Application event totals		3.10	0.00	0.00	287.87	

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

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

E Center 17th - 11/02/2017: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.33	0.00	0.00	50.97	783,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	72.90	1,680,000.00 gal
Manuel's	Ground water	0.78	0.00	0.00	30.06	783,000.00 gal
W 17th	Ground water	0.25	0.00	0.00	60.40	696,000.00 gal
Claudine's	Ground water	1.85	0.00	0.00	77.10	783,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.11	870,000.00 gal
Application event totals		3.21	0.00	0.00	295.55	
08/24/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Claudine's	Ground water	1.92	0.00	0.00	79.76	810,000.00 gal
17th	Ground water	0.34	0.00	0.00	52.72	810,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	78.11	1,800,000.00 gal
Manuel's	Ground water	0.81	0.00	0.00	31.09	810,000.00 gal
W 17th	Ground water	0.26	0.00	0.00	62.49	720,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.26	900,000.00 gal
Application event totals		3.32	0.00	0.00	308.43	
09/13/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.35	0.00	0.00	54.48	837,000.00 gal
Claudine's	Ground water	1.98	0.00	0.00	82.42	837,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	80.71	1,860,000.00 gal
Manuel's	Ground water	0.84	0.00	0.00	32.13	837,000.00 gal
W 17th	Ground water	0.27	0.00	0.00	64.57	744,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.40	930,000.00 gal
Application event totals		3.44	0.00	0.00	318.71	

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

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

E Center 17th - 11/02/2017: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/08/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Jacc 50hp	Ground water	0.00	0.00	0.00	80.71	1,860,000.00 gal
Manuel's	Ground water	0.84	0.00	0.00	32.13	837,000.00 gal
W 17th	Ground water	0.27	0.00	0.00	64.57	744,000.00 gal
17th	Ground water	0.35	0.00	0.00	54.48	837,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.40	930,000.00 gal
Application event totals		1.46	0.00	0.00	236.29	
11/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.35	0.00	0.00	55.36	850,500.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	82.01	1,890,000.00 gal
Manuel's	Ground water	0.85	0.00	0.00	32.65	850,500.00 gal
W 17th	Ground water	0.27	0.00	0.00	65.61	756,000.00 gal
Jacc 5hp	Ground water	2.08	0.00	0.00	65.23	831,600.00 gal
Application event totals		3.56	0.00	0.00	300.87	

E. 17th - 11/22/2022: Alfalfa, hay

Field name: E. 17th

Crop: Alfalfa, hay

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/28/2022	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.52	0.00	0.00	81.72	837,000.00 gal
Jacc 5hp	Ground water	3.07	0.00	0.00	96.30	818,400.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	118.01	1,813,000.00 gal
Application event totals		3.60	0.00	0.00	296.03	

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

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

E. 17th - 11/22/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/06/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.46	0.00	0.00	55.97	972,000.00 gal
17th	Ground water	0.61	0.00	0.00	94.90	972,000.00 gal
W 17th	Ground water	0.47	0.00	0.00	112.48	864,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.66	1,080,000.00 gal
Application event totals		2.54	0.00	0.00	271.01	
04/25/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.53	0.00	0.00	83.04	850,500.00 gal
Manuel's	Ground water	1.28	0.00	0.00	48.97	850,500.00 gal
W 17th	Ground water	0.41	0.00	0.00	98.42	756,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.70	945,000.00 gal
Application event totals		2.22	0.00	0.00	237.13	
06/08/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.28	0.00	0.00	48.97	850,500.00 gal
17th	Ground water	0.53	0.00	0.00	83.04	850,500.00 gal
W 17th	Ground water	0.41	0.00	0.00	98.42	756,000.00 gal
Horse Ranch	Ground water	0.07	0.00	0.00	9.96	642,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.70	945,000.00 gal
Application event totals		2.29	0.00	0.00	247.10	
07/19/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W 17th	Ground water	0.46	0.00	0.00	109.35	840,000.00 gal
17th	Ground water	0.59	0.00	0.00	92.27	945,000.00 gal
Manuel's	Ground water	1.42	0.00	0.00	54.41	945,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.45	1,050,000.00 gal
Application event totals		2.47	0.00	0.00	263.48	

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

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

E. 17th - 11/22/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.59	0.00	0.00	92.27	945,000.00 gal
Manuel's	Ground water	1.42	0.00	0.00	54.41	945,000.00 gal
W 17th	Ground water	0.46	0.00	0.00	109.35	840,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.45	1,050,000.00 gal
Application event totals		2.47	0.00	0.00	263.48	
10/20/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.61	0.00	0.00	94.90	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	140.60	2,160,000.00 gal
Manuel's	Ground water	1.46	0.00	0.00	55.97	972,000.00 gal
Application event totals		2.07	0.00	0.00	291.47	
11/08/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7590. 16th Domestic	Ground water	0.00	0.00	0.00	69.15	837,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	121.07	1,860,000.00 gal
Application event totals		0.00	0.00	0.00	190.22	

Fargo - 10/07/2022: 50% Rye grass/ 50% Barley

Field name: Fargo

Crop: 50% Rye grass/ 50% Barley

Plant date: 10/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/22/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	273.40	83.29	321.66	3,708.75	100.00 ton
Application event totals		273.40	83.29	321.66	3,708.75	

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

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

Fargo - 10/07/2022: 50% Rye grass/ 50% Barley

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/18/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	241.80	2,440,000.00 gal
NW	Ground water	3.02	0.00	0.00	100.04	864,000.00 gal
Shop	Ground water	1.24	0.00	0.00	165.83	768,000.00 gal
Application event totals		4.26	0.00	0.00	507.67	
10/08/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	16.39	4.43	30.97	87.94	51,500.00 gal
Diesel	Ground water	0.00	0.00	0.00	245.76	2,480,000.00 gal
NW	Ground water	2.88	0.00	0.00	95.35	823,500.00 gal
Application event totals		19.27	4.43	30.97	429.05	

Fargo - 06/05/2023: Corn, silage

Field name: Fargo

Crop: Corn, silage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/24/2023	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
Manure	Corral solids	180.58	58.42	175.96	2,252.80	100.00 ton
Application event totals		180.58	58.42	175.96	2,252.80	

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

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

Fargo - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	35.03	14.78	90.22	463.32	558,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	245.76	2,480,000.00 gal
Perry	Ground water	0.66	0.00	0.00	76.83	744,000.00 gal
Shop	Ground water	1.35	0.00	0.00	180.73	837,000.00 gal
NW	Ground water	2.92	0.00	0.00	96.91	837,000.00 gal
Application event totals		39.96	14.78	90.22	1,063.56	
06/29/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	241.80	2,440,000.00 gal
Perry	Ground water	0.65	0.00	0.00	75.59	732,000.00 gal
Perry	Ground water	0.74	0.00	0.00	85.97	832,500.00 gal
Shop	Ground water	1.18	0.00	0.00	158.06	732,000.00 gal
Application event totals		2.57	0.00	0.00	561.42	
07/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	122.31	5.65	29.39	261.35	558,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	245.76	2,480,000.00 gal
NW	Ground water	2.92	0.00	0.00	96.91	837,000.00 gal
Perry	Ground water	0.66	0.00	0.00	76.83	744,000.00 gal
Application event totals		125.89	5.65	29.39	680.85	
08/03/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	237.83	2,400,000.00 gal
Shop	Ground water	1.31	0.00	0.00	174.90	810,000.00 gal
NW	Ground water	2.83	0.00	0.00	93.79	810,000.00 gal
Perry	Ground water	0.66	0.00	0.00	76.83	744,000.00 gal
Application event totals		4.80	0.00	0.00	583.35	

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

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

Manuels - 03/23/2022: Alfalfa, hay

Field name: Manuels

Crop: Alfalfa, hay

Plant date: 03/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/06/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	55.50	10.68	120.05	421.25	324,000.00 gal
NW	Ground water	2.72	0.00	0.00	90.04	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	140.60	2,160,000.00 gal
Application event totals		58.21	10.68	120.05	651.88	
04/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.63	0.00	0.00	98.86	1,012,500.00 gal
E Jacc	Ground water	1.73	0.00	0.00	60.84	900,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.98	1,125,000.00 gal
Application event totals		2.36	0.00	0.00	167.67	
05/16/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.61	0.00	0.00	94.90	972,000.00 gal
E Jacc	Ground water	1.66	0.00	0.00	58.40	864,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.32	2,160,000.00 gal
Application event totals		2.27	0.00	0.00	168.63	
06/13/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.60	0.00	0.00	93.54	958,000.00 gal
E Jacc	Ground water	1.64	0.00	0.00	57.59	852,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.55	1,065,000.00 gal
Application event totals		2.23	0.00	0.00	158.68	

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

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

Manuels - 03/23/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.46	0.00	0.00	55.97	972,000.00 gal
17th	Ground water	0.61	0.00	0.00	94.90	972,000.00 gal
E Jacc	Ground water	1.66	0.00	0.00	58.40	864,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.94	2,106,000.00 gal
Application event totals		3.73	0.00	0.00	224.21	
08/21/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.46	0.00	0.00	55.97	972,000.00 gal
E Jacc	Ground water	1.66	0.00	0.00	58.40	864,000.00 gal
17th	Ground water	0.61	0.00	0.00	94.90	972,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.32	2,160,000.00 gal
Application event totals		3.73	0.00	0.00	224.59	
09/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
E Jacc	Ground water	1.61	0.00	0.00	56.78	840,000.00 gal
Manuel's	Ground water	1.42	0.00	0.00	54.41	945,000.00 gal
17th	Ground water	0.59	0.00	0.00	92.27	945,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.45	1,050,000.00 gal
Application event totals		3.62	0.00	0.00	210.91	
10/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.62	0.00	0.00	96.17	985,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	71.27	1,095,000.00 gal
Manuel's	Ground water	1.48	0.00	0.00	56.75	985,500.00 gal
Application event totals		2.10	0.00	0.00	224.19	

N 50 - 10/16/2019: Alfalfa, hay

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

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

N 50 - 10/16/2019: Alfalfa, hay

Field name: N 50

Crop: Alfalfa, hay

Plant date: 10/16/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/09/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	64.58	17.47	122.00	346.44	317,000.00 gal
Claudine's	Ground water	2.76	0.00	0.00	114.86	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	112.48	2,160,000.00 gal
NW	Ground water	2.17	0.00	0.00	72.03	972,000.00 gal
Application event totals		69.51	17.47	122.00	645.80	
04/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.20	0.00	0.00	46.02	999,000.00 gal
Claudine's	Ground water	2.83	0.00	0.00	118.05	999,000.00 gal
17th	Ground water	0.50	0.00	0.00	78.03	999,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	115.60	2,220,000.00 gal
Application event totals		4.54	0.00	0.00	357.70	
05/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.18	0.00	0.00	45.40	985,500.00 gal
W 17th	Ground water	0.38	0.00	0.00	91.23	876,000.00 gal
17th	Ground water	0.49	0.00	0.00	76.98	985,500.00 gal
E Jacc	Ground water	1.35	0.00	0.00	47.37	876,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.21	1,095,000.00 gal
Application event totals		3.40	0.00	0.00	267.19	

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

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

N 50 - 10/16/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.17	0.00	0.00	44.77	972,000.00 gal
17th	Ground water	0.49	0.00	0.00	75.92	972,000.00 gal
E Jacc	Ground water	1.33	0.00	0.00	46.72	864,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.13	1,080,000.00 gal
Application event totals		2.98	0.00	0.00	173.55	
07/04/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Claudine's	Ground water	2.80	0.00	0.00	116.45	985,500.00 gal
W 17th	Ground water	0.36	0.00	0.00	87.48	840,000.00 gal
17th	Ground water	0.47	0.00	0.00	73.81	945,000.00 gal
Manuel's	Ground water	1.14	0.00	0.00	43.53	945,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.96	1,050,000.00 gal
Application event totals		4.77	0.00	0.00	327.24	
08/09/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Claudine's	Ground water	2.80	0.00	0.00	116.45	985,500.00 gal
W 17th	Ground water	0.38	0.00	0.00	91.23	876,000.00 gal
17th	Ground water	0.49	0.00	0.00	76.98	985,500.00 gal
Manuel's	Ground water	1.18	0.00	0.00	45.40	985,500.00 gal
Canal	Surface water	0.00	0.00	0.00	6.21	1,095,000.00 gal
Application event totals		4.85	0.00	0.00	336.27	

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

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

N 50 - 10/16/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/10/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NW	Ground water	2.23	0.00	0.00	74.03	999,000.00 gal
17th	Ground water	0.50	0.00	0.00	78.03	999,000.00 gal
Manuel's	Ground water	1.20	0.00	0.00	46.02	999,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.30	1,110,000.00 gal
Application event totals		3.93	0.00	0.00	204.38	
10/14/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.17	0.00	0.00	44.77	972,000.00 gal
Claudine's	Ground water	2.76	0.00	0.00	114.86	972,000.00 gal
17th	Ground water	0.49	0.00	0.00	75.92	972,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.26	2,160,000.00 gal
Application event totals		4.41	0.00	0.00	247.81	

N Davids - 12/05/2021: Alfalfa, hay

Field name:	N Davids	Plant date:	12/05/2021	
Crop:	Alfalfa, hay			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	Pipeline	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
s pit	Process wastewater	53.46	28.76	310.62
Jacc 50hp	Ground water	0.00	0.00	0.00
NW	Ground water	2.75	0.00	0.00
Application event totals		56.21	28.76	310.62
				1,050.45

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

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

N Davids - 12/05/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/01/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.62	0.00	0.00	96.14	837,000.00 gal
Jacc 5hp	Ground water	3.62	0.00	0.00	113.29	818,400.00 gal
Claudine's	Ground water	3.49	0.00	0.00	145.45	837,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.76	930,000.00 gal
Application event totals		7.72	0.00	0.00	362.64	
05/05/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.60	0.00	0.00	93.04	810,000.00 gal
Jacc 5hp	Ground water	3.50	0.00	0.00	109.64	792,000.00 gal
Claudine's	Ground water	3.38	0.00	0.00	140.76	810,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.51	900,000.00 gal
Application event totals		7.48	0.00	0.00	350.94	
06/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.61	0.00	0.00	94.59	823,500.00 gal
Jacc 5hp	Ground water	3.56	0.00	0.00	111.46	805,200.00 gal
Claudine's	Ground water	3.44	0.00	0.00	143.10	823,500.00 gal
Canal	Surface water	0.00	0.00	0.00	7.64	915,000.00 gal
Application event totals		7.60	0.00	0.00	356.79	
07/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.60	0.00	0.00	93.04	810,000.00 gal
Jacc 5hp	Ground water	3.50	0.00	0.00	109.64	792,000.00 gal
Manuel's	Ground water	1.43	0.00	0.00	54.87	810,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.51	900,000.00 gal
Application event totals		5.53	0.00	0.00	265.06	

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

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

N Davids - 12/05/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/18/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.61	0.00	0.00	94.59	823,500.00 gal
Jacc 5hp	Ground water	3.56	0.00	0.00	111.46	805,200.00 gal
Claudine's	Ground water	3.44	0.00	0.00	143.10	823,500.00 gal
Canal	Surface water	0.00	0.00	0.00	7.64	915,000.00 gal
Application event totals		7.60	0.00	0.00	356.79	
09/18/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.62	0.00	0.00	96.14	837,000.00 gal
Jacc 5hp	Ground water	3.62	0.00	0.00	113.29	818,400.00 gal
Claudine's	Ground water	3.49	0.00	0.00	145.45	837,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.76	930,000.00 gal
Application event totals		7.72	0.00	0.00	362.64	
10/28/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.61	0.00	0.00	94.59	823,500.00 gal
Jacc 5hp	Ground water	3.56	0.00	0.00	111.46	805,200.00 gal
Canal	Surface water	0.00	0.00	0.00	7.64	915,000.00 gal
Application event totals		4.16	0.00	0.00	213.69	

N Jacc - 10/29/2015: Alfalfa, hay

Field name: N Jacc

Crop: Alfalfa, hay

Plant date: 10/29/2015

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

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

N Jacc - 10/29/2015: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/19/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	45.63	8.78	98.71	346.36	333,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	115.60	2,220,000.00 gal
NW	Ground water	2.23	0.00	0.00	74.03	999,000.00 gal
16th	Ground water	0.69	0.00	0.00	74.70	666,000.00 gal
Application event totals		48.55	8.78	98.71	610.69	
03/15/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.49	0.00	0.00	75.92	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	112.48	2,160,000.00 gal
Manuel's	Ground water	1.17	0.00	0.00	44.77	972,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	9.12	734,400.00 gal
Application event totals		1.72	0.00	0.00	242.29	
04/27/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.48	0.00	0.00	74.87	958,500.00 gal
Manuel's	Ground water	1.15	0.00	0.00	44.15	958,500.00 gal
W 17th	Ground water	0.37	0.00	0.00	88.73	852,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	8.99	724,200.00 gal
Canal	Surface water	0.00	0.00	0.00	6.04	1,065,000.00 gal
Application event totals		2.06	0.00	0.00	222.79	

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

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

N Jacc - 10/29/2015: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.47	0.00	0.00	72.76	931,500.00 gal
Manuel's	Ground water	1.12	0.00	0.00	42.91	931,500.00 gal
W 17th	Ground water	0.36	0.00	0.00	86.23	828,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	8.74	703,800.00 gal
Canal	Surface water	0.00	0.00	0.00	5.87	1,035,000.00 gal
Application event totals		2.01	0.00	0.00	216.51	
07/22/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.49	0.00	0.00	75.92	972,000.00 gal
Manuel's	Ground water	1.17	0.00	0.00	44.77	972,000.00 gal
W 17th	Ground water	0.37	0.00	0.00	89.98	864,000.00 gal
16th	Ground water	0.67	0.00	0.00	72.68	648,000.00 gal
Canal	Surface water	0.00	0.00	0.00	3.89	1,080,000.00 gal
Application event totals		2.70	0.00	0.00	287.25	
08/28/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.50	0.00	0.00	78.03	999,000.00 gal
Manuel's	Ground water	1.20	0.00	0.00	46.02	999,000.00 gal
W 17th	Ground water	0.39	0.00	0.00	92.48	888,000.00 gal
Horse Ranch	Ground water	0.07	0.00	0.00	9.37	754,800.00 gal
Canal	Surface water	0.00	0.00	0.00	6.30	1,110,000.00 gal
Application event totals		2.15	0.00	0.00	232.20	

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

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

N Jacc - 10/29/2015: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Horse Ranch	Ground water	0.07	0.00	0.00	9.50	765,000.00 gal
17th	Ground water	0.51	0.00	0.00	79.09	1,012,500.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	117.16	2,250,000.00 gal
Manuel's	Ground water	1.22	0.00	0.00	46.64	1,012,500.00 gal
Application event totals		1.79	0.00	0.00	252.39	
12/06/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.49	0.00	0.00	75.92	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	112.48	2,160,000.00 gal
Manuel's	Ground water	1.17	0.00	0.00	44.77	972,000.00 gal
Horse Ranch	Ground water	0.06	0.00	0.00	9.12	734,400.00 gal
Application event totals		1.72	0.00	0.00	242.29	

NW - 10/29/2022: 50% Rye grass/ 50% Barley

Field name: NW

Crop: 50% Rye grass/ 50% Barley

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/15/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	336.49	102.51	395.89	4,564.62	100.00 ton
Application event totals		336.49	102.51	395.89	4,564.62	

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

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

NW - 10/29/2022: 50% Rye grass/ 50% Barley

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/01/2022	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	108.25	58.24	628.94	1,653.88	432,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	235.64	1,932,000.00 gal
Perry	Ground water	0.63	0.00	0.00	73.21	576,000.00 gal
Application event totals		108.87	58.24	628.94	1,962.73	
03/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	356.14	2,920,000.00 gal
Perry	Ground water	0.96	0.00	0.00	111.34	876,000.00 gal
Comm	Ground water	5.75	0.00	0.00	178.31	985,000.00 gal
Application event totals		6.71	0.00	0.00	645.79	

NW - 06/12/2023: Corn, silage

Field name: NW

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	222.26	71.91	216.57	2,772.68	100.00 ton
Application event totals		222.26	71.91	216.57	2,772.68	

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

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

NW - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/31/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	41.72	17.61	107.46	551.85	540,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	292.72	2,400,000.00 gal
Perry	Ground water	0.79	0.00	0.00	91.51	720,000.00 gal
Comm	Ground water	4.73	0.00	0.00	146.63	810,000.00 gal
Application event totals		47.24	17.61	107.46	1,082.71	
07/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	234.94	2,440,000.00 gal
Comm	Ground water	4.81	0.00	0.00	149.07	823,500.00 gal
Claudine's	Ground water	4.49	0.00	0.00	187.13	823,500.00 gal
Application event totals		9.30	0.00	0.00	571.15	
08/01/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	154.41	9.65	51.88	404.85	511,500.00 gal
Diesel	Ground water	0.00	0.00	0.00	302.47	2,480,000.00 gal
Comm	Ground water	4.89	0.00	0.00	151.52	837,000.00 gal
Application event totals		159.30	9.65	51.88	858.84	
08/26/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Diesel	Ground water	0.00	0.00	0.00	292.72	2,400,000.00 gal
Comm	Ground water	4.73	0.00	0.00	146.63	810,000.00 gal
Claudine's	Ground water	4.42	0.00	0.00	184.07	810,000.00 gal
Application event totals		9.15	0.00	0.00	623.41	

S 50 - 10/16/2019: Alfalfa, hay

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

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

S 50 - 10/16/2019: Alfalfa, hay

Field name: S 50

Crop: Alfalfa, hay

Plant date: 10/16/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	43.39	23.34	252.10	662.93	333,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	115.60	2,220,000.00 gal
NW	Ground water	2.23	0.00	0.00	74.03	999,000.00 gal
Claudine's	Ground water	2.83	0.00	0.00	118.05	999,000.00 gal
Application event totals		48.46	23.34	252.10	970.61	
04/01/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.49	0.00	0.00	75.92	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	112.48	2,160,000.00 gal
Claudine's	Ground water	2.76	0.00	0.00	114.86	972,000.00 gal
Manuel's	Ground water	1.17	0.00	0.00	44.77	972,000.00 gal
Application event totals		4.41	0.00	0.00	348.03	
05/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.50	0.00	0.00	78.03	999,000.00 gal
E Jacc	Ground water	1.36	0.00	0.00	48.02	888,000.00 gal
Claudine's	Ground water	2.83	0.00	0.00	118.05	999,000.00 gal
W 17th	Ground water	0.39	0.00	0.00	92.48	888,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.30	1,110,000.00 gal
Application event totals		5.08	0.00	0.00	342.88	

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

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

S 50 - 10/16/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/05/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.48	0.00	0.00	74.87	958,500.00 gal
E Jacc	Ground water	1.31	0.00	0.00	46.07	852,000.00 gal
Manuel's	Ground water	1.15	0.00	0.00	44.13	958,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.04	1,065,000.00 gal
Application event totals		2.94	0.00	0.00	171.11	
07/08/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.48	0.00	0.00	74.87	958,500.00 gal
Claudine's	Ground water	2.80	0.00	0.00	116.45	985,500.00 gal
Manuel's	Ground water	1.18	0.00	0.00	45.40	985,500.00 gal
W 17th	Ground water	0.38	0.00	0.00	91.23	876,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.21	1,095,000.00 gal
Application event totals		4.84	0.00	0.00	334.16	
08/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.49	0.00	0.00	76.98	985,500.00 gal
W 17th	Ground water	0.38	0.00	0.00	91.23	876,000.00 gal
NW	Ground water	2.20	0.00	0.00	73.03	985,500.00 gal
Manuel's	Ground water	1.18	0.00	0.00	45.40	985,500.00 gal
Canal	Surface water	0.00	0.00	0.00	6.21	1,095,000.00 gal
Application event totals		4.26	0.00	0.00	292.85	

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

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

S 50 - 10/16/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/13/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NW	Ground water	2.23	0.00	0.00	74.03	999,000.00 gal
Manuel's	Ground water	1.20	0.00	0.00	46.02	999,000.00 gal
17th	Ground water	0.50	0.00	0.00	78.03	999,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.30	1,110,000.00 gal
Application event totals		3.93	0.00	0.00	204.38	
10/22/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.48	0.00	0.00	74.87	958,500.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	110.92	2,130,000.00 gal
Claudine's	Ground water	2.72	0.00	0.00	113.26	958,500.00 gal
Manuel's	Ground water	1.15	0.00	0.00	44.15	958,500.00 gal
Application event totals		4.35	0.00	0.00	343.20	

S Davids - 11/14/2022: 50% Rye grass / 50% Barley

Field name: S Davids

Crop: 50% Rye grass / 50% Barley

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	115.57	37.39	112.62	1,689.60	20.00 ton
Application event totals		115.57	37.39	112.62	1,689.60	

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

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

S Davids - 11/14/2022: 50% Rye grass / 50% Barley

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	154.15	29.67	333.47	1,170.14	225,000.00 gal
17th	Ground water	0.84	0.00	0.00	131.81	337,500.00 gal
Jacc 5hp	Ground water	4.96	0.00	0.00	155.32	330,000.00 gal
NW	Ground water	3.77	0.00	0.00	125.05	337,500.00 gal
Application event totals		163.73	29.67	333.47	1,582.31	
03/14/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.88	0.00	0.00	137.08	351,000.00 gal
Jacc 5hp	Ground water	5.16	0.00	0.00	161.53	343,200.00 gal
Canal	Surface water	0.00	0.00	0.00	11.07	390,000.00 gal
Application event totals		6.03	0.00	0.00	309.68	

S Davids - 06/10/2023: Corn, silage

Field name: S Davids

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/19/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.84	0.00	0.00	131.81	337,500.00 gal
Jacc 5hp	Ground water	4.96	0.00	0.00	155.32	330,000.00 gal
Claudine's	Ground water	4.79	0.00	0.00	199.40	337,500.00 gal
E Jacc	Ground water	2.30	0.00	0.00	81.11	300,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.64	375,000.00 gal
Application event totals		12.89	0.00	0.00	578.28	

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

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

S Davids - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	262.46	79.95	308.79	3,560.40	30.00 ton
Application event totals		262.46	79.95	308.79	3,560.40	
06/19/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	43.39	18.31	111.76	573.92	216,000.00 gal
NW	Ground water	3.62	0.00	0.00	120.05	324,000.00 gal
Claudine's	Ground water	4.60	0.00	0.00	191.43	324,000.00 gal
E Jacc	Ground water	2.21	0.00	0.00	77.87	288,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.21	360,000.00 gal
Application event totals		53.82	18.31	111.76	973.48	
07/18/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.84	0.00	0.00	131.81	337,500.00 gal
Jacc 5hp	Ground water	4.96	0.00	0.00	155.32	330,000.00 gal
Claudine's	Ground water	4.79	0.00	0.00	199.40	337,500.00 gal
E Jacc	Ground water	2.30	0.00	0.00	81.11	300,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.64	375,000.00 gal
Application event totals		12.89	0.00	0.00	578.28	
08/17/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.88	0.00	0.00	137.08	351,000.00 gal
Jacc 5hp	Ground water	5.16	0.00	0.00	161.53	343,200.00 gal
Claudine's	Ground water	4.98	0.00	0.00	207.38	351,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.07	390,000.00 gal
Application event totals		11.01	0.00	0.00	517.06	

S Jacc - 05/15/2023: Corn, silage

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

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

S Jacc - 05/15/2023: Corn, silage

Field name: S Jacc

Crop: Corn, silage

Plant date: 05/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
	Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
	Manure	Corral solids	205.85	62.71	242.19	2,792.47
	Application event totals		205.85	62.71	242.19	2,792.47
04/16/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
	Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
	N pit	Process wastewater	158.63	42.91	299.69	850.99
	Diesel	Ground water	0.00	0.00	0.00	223.84
	NW	Ground water	2.66	0.00	0.00	88.27
	Manuel's	Ground water	1.43	0.00	0.00	54.87
	Horse Ranch	Ground water	0.08	0.00	0.00	11.18
	Application event totals		162.80	42.91	299.69	1,229.14
06/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
	Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
	Diesel	Ground water	0.00	0.00	0.00	231.30
	NW	Ground water	2.75	0.00	0.00	91.21
	Manuel's	Ground water	1.48	0.00	0.00	56.70
	Horse Ranch	Ground water	0.08	0.00	0.00	11.55
	Application event totals		4.31	0.00	0.00	390.76

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

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

S Jacc - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/05/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	116.97	5.40	28.11	249.94	567,000.00 gal
17th	Ground water	0.63	0.00	0.00	97.69	850,500.00 gal
Manuel's	Ground water	1.50	0.00	0.00	57.61	850,500.00 gal
W 17th	Ground water	0.54	0.00	0.00	130.26	850,500.00 gal
Horse Ranch	Ground water	0.08	0.00	0.00	11.73	642,600.00 gal
Claudine's	Ground water	3.55	0.00	0.00	147.79	850,500.00 gal
Canal	Surface water	0.00	0.00	0.00	7.89	945,000.00 gal
Application event totals		123.27	5.40	28.11	702.92	
07/29/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.60	0.00	0.00	93.04	810,000.00 gal
Horse Ranch	Ground water	0.08	0.00	0.00	11.18	612,000.00 gal
Claudine's	Ground water	3.38	0.00	0.00	140.76	810,000.00 gal
Manuel's	Ground water	1.43	0.00	0.00	54.87	810,000.00 gal
W 17th	Ground water	0.52	0.00	0.00	124.06	810,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.51	900,000.00 gal
Application event totals		6.00	0.00	0.00	431.41	

S Jacc - 09/02/2023: Sudangrass, silage

Field name: S Jacc

Crop: Sudangrass, silage

Plant date: 09/02/2023

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

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

S Jacc - 09/02/2023: Sudangrass, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/31/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	63.15	3.95	21.22	165.58	273,575.00 gal
Diesel	Ground water	0.00	0.00	0.00	231.30	2,480,000.00 gal
NW	Ground water	2.75	0.00	0.00	91.21	837,000.00 gal
Claudine's	Ground water	3.49	0.00	0.00	145.45	837,000.00 gal
Manuel's	Ground water	1.48	0.00	0.00	56.70	837,000.00 gal
Horse Ranch	Ground water	0.08	0.00	0.00	11.54	632,000.00 gal
Application event totals		70.96	3.95	21.22	701.79	
10/05/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	86.40	56.36	209.03	829.15	567,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	235.03	2,520,000.00 gal
NW	Ground water	2.80	0.00	0.00	92.68	850,500.00 gal
Claudine's	Ground water	3.55	0.00	0.00	147.79	850,500.00 gal
Claudine's	Ground water	3.55	0.00	0.00	147.79	850,500.00 gal
W 17th	Ground water	0.41	0.00	0.00	98.42	642,600.00 gal
Application event totals		96.71	56.36	209.03	1,550.87	

W 17th - 12/26/2022: 50% Rye grass / 50% Barley

Field name: W 17th

Crop: 50% Rye grass / 50% Barley

Plant date: 12/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	135.97	43.99	132.49	1,696.23	80.00 ton
Application event totals		135.97	43.99	132.49	1,696.23	

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

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

W 17th - 12/26/2022: 50% Rye grass / 50% Barley

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	124.16	66.80	721.43	1,897.10	648,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	268.61	2,880,000.00 gal
NW	Ground water	3.20	0.00	0.00	105.92	972,000.00 gal
Application event totals		127.36	66.80	721.43	2,271.63	
05/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.70	0.00	0.00	108.55	945,000.00 gal
NW	Ground water	3.11	0.00	0.00	102.98	945,000.00 gal
Manuel's	Ground water	1.67	0.00	0.00	64.02	945,000.00 gal
W 17th	Ground water	0.54	0.00	0.00	128.65	840,000.00 gal
Canal	Surface water	0.00	0.00	0.00	8.76	1,050,000.00 gal
Application event totals		6.01	0.00	0.00	412.96	

W 17th - 06/04/2023: Corn, silage

Field name: W 17th

Crop: Corn, silage

Plant date: 06/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	205.85	62.71	242.19	2,792.47	80.00 ton
Application event totals		205.85	62.71	242.19	2,792.47	

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

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

W 17th - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/24/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.70	0.00	0.00	108.55	945,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	16.08	210,000.00 gal
Manuel's	Ground water	1.67	0.00	0.00	64.02	945,000.00 gal
Canal	Surface water	0.00	0.00	0.00	8.76	1,050,000.00 gal
Application event totals		2.37	0.00	0.00	197.41	
07/24/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.72	0.00	0.00	111.65	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	165.41	2,160,000.00 gal
Manuel's	Ground water	1.72	0.00	0.00	65.84	972,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.01	1,080,000.00 gal
Application event totals		2.43	0.00	0.00	351.92	
08/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
N pit	Process wastewater	149.59	9.35	50.26	392.21	648,000.00 gal
W 17th	Ground water	0.55	0.00	0.00	132.33	864,000.00 gal
17th	Ground water	0.72	0.00	0.00	111.65	972,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	165.41	2,160,000.00 gal
Manuel's	Ground water	1.72	0.00	0.00	65.84	972,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.01	1,080,000.00 gal
Application event totals		152.57	9.35	50.26	876.45	

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

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

W 17th - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/02/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manuel's	Ground water	1.74	0.00	0.00	66.76	985,500.00 gal
W 17th	Ground water	0.56	0.00	0.00	134.16	876,000.00 gal
17th	Ground water	0.73	0.00	0.00	113.20	985,500.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	167.71	2,190,000.00 gal
Canal	Surface water	0.00	0.00	0.00	9.14	1,095,000.00 gal
Application event totals		3.03	0.00	0.00	490.97	

WCenter 17th - 04/25/2023: Corn, silage

Field name: WCenter 17th

Crop: Corn, silage

Plant date: 04/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/15/2023	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
Manure	Corral solids	145.81	44.42	171.55	1,978.00	60.00 ton
Application event totals		145.81	44.42	171.55	1,978.00	
04/05/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	63.27	26.71	162.98	836.97	1,134,000.00 gal
Diesel	Ground water	0.00	0.00	0.00	221.98	2,520,000.00 gal
Claudine's	Ground water	3.72	0.00	0.00	155.09	945,000.00 gal
W 17th	Ground water	0.46	0.00	0.00	109.35	756,000.00 gal
Claudine's	Ground water	3.72	0.00	0.00	155.09	945,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.45	945,000.00 gal
Application event totals		71.18	26.71	162.98	1,485.93	

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

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

WCenter 17th - 04/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.68	0.00	0.00	105.45	972,000.00 gal
Claudine's	Ground water	3.83	0.00	0.00	159.52	972,000.00 gal
Manuel's	Ground water	1.62	0.00	0.00	62.19	972,000.00 gal
W 17th	Ground water	0.52	0.00	0.00	124.97	864,000.00 gal
Horse Ranch	Ground water	0.09	0.00	0.00	12.67	734,400.00 gal
Canal	Surface water	0.00	0.00	0.00	8.51	1,080,000.00 gal
Application event totals		6.74	0.00	0.00	473.31	
06/28/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.57	0.00	0.00	89.34	823,500.00 gal
Claudine's	Ground water	3.25	0.00	0.00	135.15	823,500.00 gal
Manuel's	Ground water	1.37	0.00	0.00	52.69	823,500.00 gal
W 17th	Ground water	0.44	0.00	0.00	105.88	732,000.00 gal
Canal	Surface water	0.00	0.00	0.00	7.21	915,000.00 gal
Application event totals		5.63	0.00	0.00	390.27	
07/25/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.56	0.00	0.00	87.87	810,000.00 gal
Claudine's	Ground water	3.19	0.00	0.00	132.94	810,000.00 gal
Manuel's	Ground water	1.35	0.00	0.00	51.82	810,000.00 gal
W 17th	Ground water	0.43	0.00	0.00	104.15	720,000.00 gal
Horse Ranch	Ground water	0.07	0.00	0.00	10.55	612,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.51	900,000.00 gal
Application event totals		5.61	0.00	0.00	391.84	

WCenter 17th - 09/03/2023: Sudangrass, silage

Field name: WCenter 17th

Crop: Sudangrass, silage

Plant date: 09/03/2023

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

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

WCenter 17th - 09/03/2023: Sudangrass, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Claudine's	Ground water	3.35	0.00	0.00	139.58	850,500.00 gal
Manuel's	Ground water	1.42	0.00	0.00	54.41	850,500.00 gal
W 17th	Ground water	0.46	0.00	0.00	109.35	756,000.00 gal
17th	Ground water	0.59	0.00	0.00	92.27	850,500.00 gal
Canal	Surface water	0.00	0.00	0.00	7.45	945,000.00 gal
Application event totals		5.82	0.00	0.00	403.06	
10/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
S pit	Process wastewater	76.42	49.85	184.88	733.36	531,000.00 gal
17th	Ground water	0.55	0.00	0.00	86.35	796,000.00 gal
Claudine's	Ground water	3.14	0.00	0.00	130.72	796,500.00 gal
Manuel's	Ground water	1.33	0.00	0.00	50.96	796,500.00 gal
W 17th	Ground water	0.43	0.00	0.00	102.41	708,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.98	885,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.98	885,000.00 gal
Application event totals		81.87	49.85	184.88	1,117.76	
11/13/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
17th	Ground water	0.56	0.00	0.00	87.87	810,000.00 gal
Jacc 50hp	Ground water	0.00	0.00	0.00	130.18	1,800,000.00 gal
Claudine's	Ground water	3.19	0.00	0.00	132.94	810,000.00 gal
Manuel's	Ground water	1.35	0.00	0.00	51.82	810,000.00 gal
W 17th	Ground water	0.43	0.00	0.00	104.15	720,000.00 gal
Application event totals		5.54	0.00	0.00	506.96	

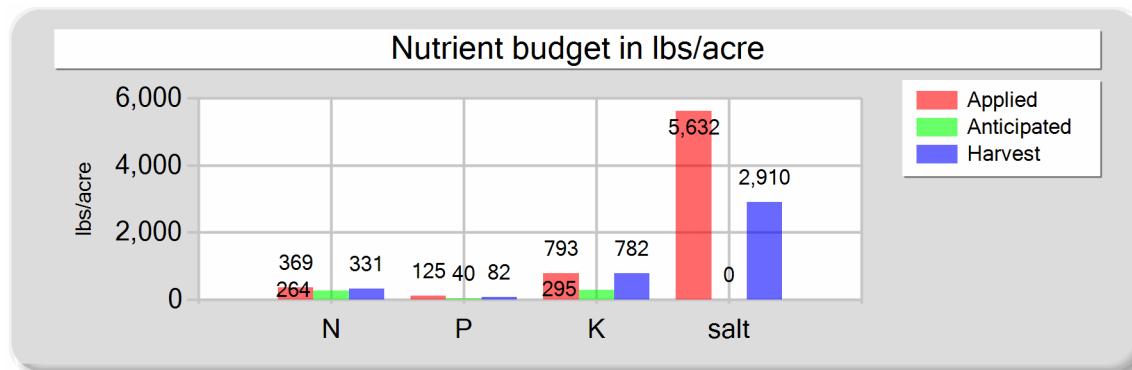
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

15 th - 10/31/2022: 50% Rye grass/ 50% Barley

Field name: 15 th Crop: 50% Rye grass/ 50% Barley Plant date: 10/31/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	262.46	79.95	308.79	3,560.40
Process wastewater	83.26	44.79	483.76	1,272.11
Fresh water	14.18	0.00	0.00	799.04
Atmospheric deposition	9.33	0.00	0.00	0.00
Total nutrients applied	369.23	124.75	792.55	5,631.55
Anticipated crop nutrient removal	264.00	39.60	294.80	0.00
Actual crop nutrient removal	330.72	81.57	781.87	2,910.08
Nutrient balance	38.51	43.18	10.68	2,721.48
Applied to removed ratio	1.12	1.53	1.01	1.94

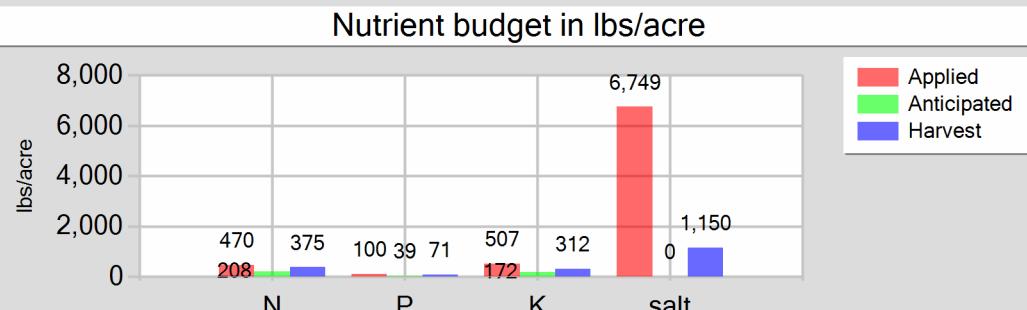
Fresh water applied
9,205,200.00 gallons
339.00 acre-inches
13.56 inches/acre
Process wastewater applied
639,000.00 gallons
23.53 acre-inches
0.94 inches/acre
Total harvests for the crop
2 harvests

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

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

15 th - 07/14/2023: Corn, silage

Field name: 15 th Crop: Corn, silage Plant date: 07/14/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	262.46	79.95	308.79	3,560.40
Process wastewater	172.30	19.86	197.92	812.07
Fresh water	30.60	0.00	0.00	2,376.51
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	470.03	99.81	506.71	6,748.98
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	375.49	70.92	311.89	1,149.98
Nutrient balance	94.54	28.90	194.82	5,599.00
Applied to removed ratio	1.25	1.41	1.62	5.87

Fresh water applied
28,996,500.00 gallons
1,067.84 acre-inches
42.71 inches/acre

Process wastewater applied
1,242,000.00 gallons
45.74 acre-inches
1.83 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.

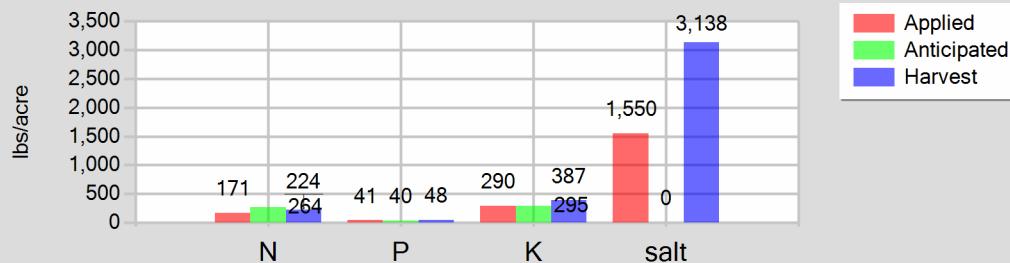
17 acres - 11/14/2022: 50% Rye grass / 50% Barley

Field name: 17 acres

Crop: 50% Rye grass / 50% Barley

Plant date: 11/14/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	7,973,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	293.62 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.27 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	153.34	41.48	289.70	822.62	Process wastewater applied
Fresh water	8.12	0.00	0.00	727.85	511,850.00 gallons
Atmospheric deposition	9.33	0.00	0.00	0.00	18.85 acre-inches
Total nutrients applied	170.80	41.48	289.70	1,550.47	1.11 inches/acre
Anticipated crop nutrient removal	264.00	39.60	294.80	0.00	
Actual crop nutrient removal	224.17	47.89	387.17	3,138.43	Total harvests for the crop
Nutrient balance	-53.37	-6.41	-97.47	-1,587.96	2 harvests
Applied to removed ratio	0.76	0.87	0.75	0.49	

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

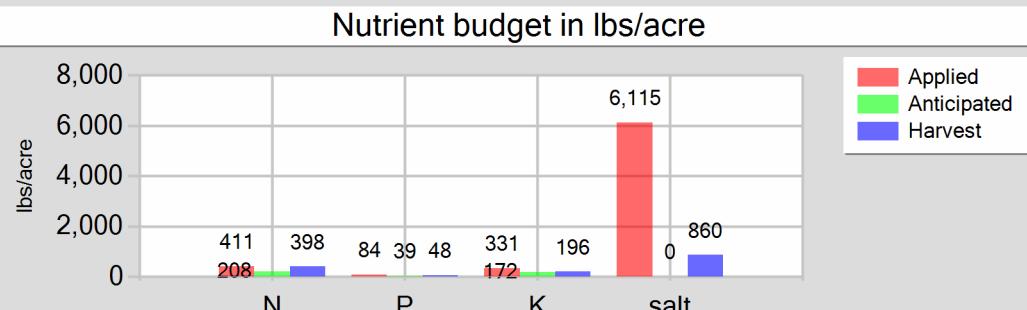
Reporting period 01/01/2023 to 12/31/2023.

17 acres - 07/16/2023: Corn, silage

Field name: 17 acres

Crop: Corn, silage

Plant date: 07/16/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	257.31	78.39	302.74	3,490.59
Process wastewater	118.83	5.49	28.56	253.91
Fresh water	30.02	0.00	0.00	2,370.65
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	410.83	83.87	331.30	6,115.15
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	398.37	47.71	196.38	860.16
Nutrient balance	12.46	36.16	134.92	5,254.99
Applied to removed ratio	1.03	1.76	1.69	7.11

Fresh water applied
20,583,000.00 gallons
758.00 acre-inches
44.59 inches/acre

Process wastewater applied
576,000.00 gallons
21.21 acre-inches
1.25 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.

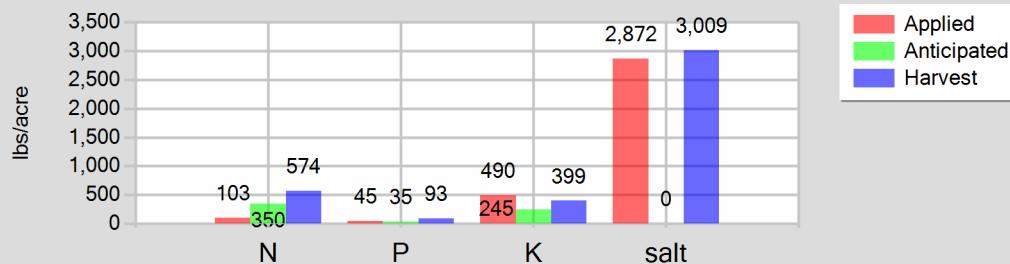
Center Jacc - 10/29/2015: Alfalfa, hay

Field name: Center Jacc

Crop: Alfalfa, hay

Plant date: 10/29/2015

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	84.28	45.34	489.72	1,287.79
Fresh water	5.18	0.00	0.00	1,583.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	103.46	45.34	489.72	2,871.69
Anticipated crop nutrient removal	350.00	35.00	245.00	0.00
Actual crop nutrient removal	574.03	92.83	398.83	3,009.21
Nutrient balance	-470.57	-47.49	90.90	-137.52
Applied to removed ratio	0.18	0.49	1.23	0.95

Fresh water applied

12,022,500.00 gallons
442.75 acre-inches
55.34 inches/acre

Process wastewater applied

207,000.00 gallons
7.62 acre-inches
0.95 inches/acre

Total harvests for the crop

7 harvests

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

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

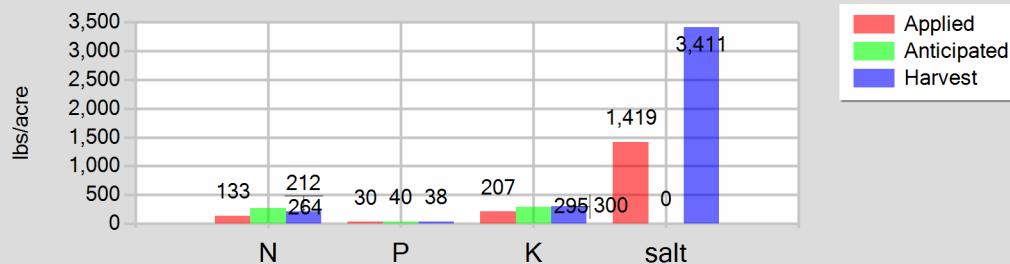
Claudines - 11/14/2022: 50% Rye grass / 50% Barley

Field name: Claudines

Crop: 50% Rye grass / 50% Barley

Plant date: 11/14/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	109.54	29.63	206.95	587.66
Fresh water	14.18	0.00	0.00	831.26
Atmospheric deposition	9.33	0.00	0.00	0.00
Total nutrients applied	133.05	29.63	206.95	1,418.92
Anticipated crop nutrient removal	264.00	39.60	294.80	0.00
Actual crop nutrient removal	211.86	38.40	300.41	3,411.26
Nutrient balance	-78.81	-8.77	-93.46	-1,992.34
Applied to removed ratio	0.63	0.77	0.69	0.42

Fresh water applied

11,712,500.00 gallons
431.33 acre-inches
15.40 inches/acre

Process wastewater applied

602,250.00 gallons
22.18 acre-inches
0.79 inches/acre

Total harvests for the crop

2 harvests

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

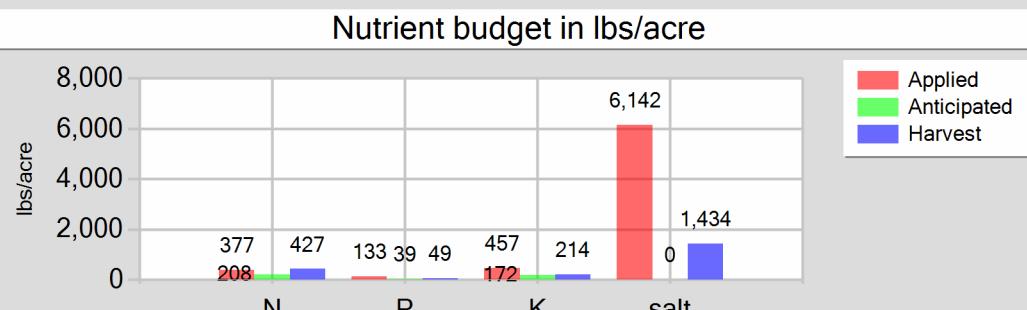
Reporting period 01/01/2023 to 12/31/2023.

Claudines - 07/12/2023: Corn, silage

Field name: Claudines

Crop: Corn, silage

Plant date: 07/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	257.98	83.46	251.38	3,218.29
Process wastewater	83.52	49.06	205.74	887.05
Fresh water	30.92	0.00	0.00	2,036.65
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	377.09	132.52	457.12	6,141.99
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	427.36	49.01	214.17	1,433.85
Nutrient balance	-50.27	83.51	242.95	4,708.14
Applied to removed ratio	0.88	2.70	2.13	4.28

Fresh water applied

32,947,600.00 gallons
1,213.35 acre-inches
43.33 inches/acre

Process wastewater applied

1,305,000.00 gallons
48.06 acre-inches
1.72 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.

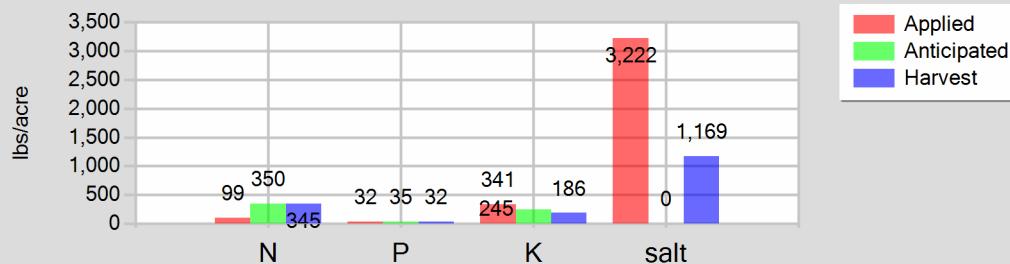
E Center 17th - 11/02/2017: Alfalfa, hay

Field name: E Center 17th

Crop: Alfalfa, hay

Plant date: 11/02/2017

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	58.63	31.54	340.68	895.85
Fresh water	26.58	0.00	0.00	2,325.92
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	99.22	31.54	340.68	3,221.77
Anticipated crop nutrient removal	350.00	35.00	245.00	0.00
Actual crop nutrient removal	345.27	31.98	185.94	1,168.75
Nutrient balance	-246.05	-0.44	154.74	2,053.02
Applied to removed ratio	0.29	0.99	1.83	2.76

Fresh water applied

43,238,100.00 gallons
1,592.31 acre-inches
53.08 inches/acre

Process wastewater applied

540,000.00 gallons
19.89 acre-inches
0.66 inches/acre

Total harvests for the crop

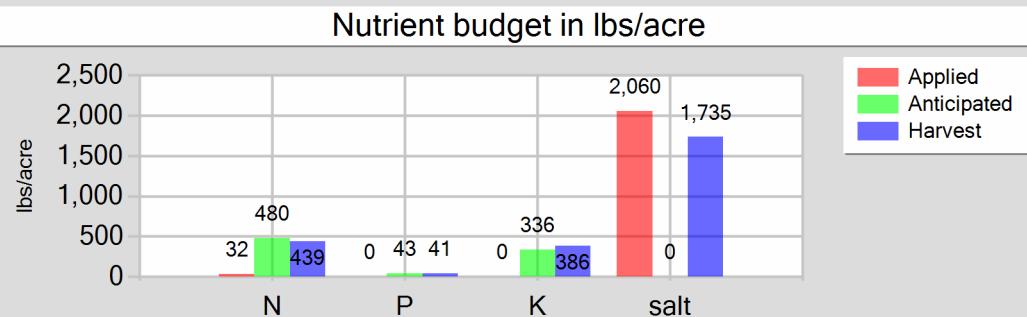
5 harvests

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

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

E. 17th - 11/22/2022: Alfalfa, hay

Field name: E. 17th Crop: Alfalfa, hay Plant date: 11/22/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	17.65	0.00	0.00	2,059.92
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	31.65	0.00	0.00	2,059.92
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	438.83	41.37	386.00	1,734.84
Nutrient balance	-407.19	-41.37	-386.00	325.08
Applied to removed ratio	0.07	0.00	0.00	1.19

Fresh water applied
29,163,400.00 gallons
1,073.99 acre-inches
53.70 inches/acre

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

Total harvests for the crop
6 harvests

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

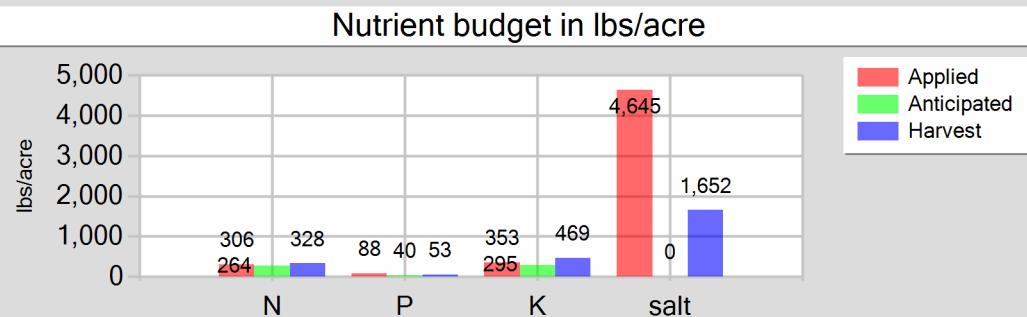
Reporting period 01/01/2023 to 12/31/2023.

Fargo - 10/07/2022: 50% Rye grass/ 50% Barley

Field name: Fargo

Crop: 50% Rye grass/ 50% Barley

Plant date: 10/07/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	7,375,500.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	271.61 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.98 inches/acre
Dry manure	273.40	83.29	321.66	3,708.75	
Process wastewater	16.39	4.43	30.97	87.94	51,500.00 gallons
Fresh water	7.14	0.00	0.00	848.78	1.90 acre-inches
Atmospheric deposition	9.33	0.00	0.00	0.00	0.12 inches/acre
Total nutrients applied	306.26	87.72	352.63	4,645.47	
Anticipated crop nutrient removal	264.00	39.60	294.80	0.00	
Actual crop nutrient removal	328.02	53.25	469.35	1,652.06	
Nutrient balance	-21.76	34.47	-116.72	2,993.41	
Applied to removed ratio	0.93	1.65	0.75	2.81	
Total harvests for the crop					2 harvests

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

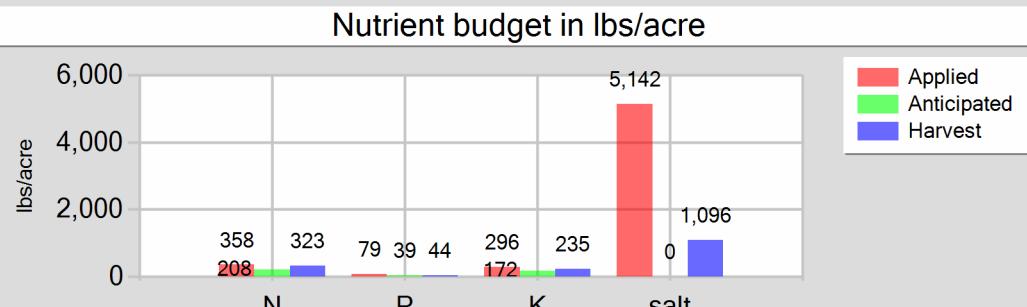
Reporting period 01/01/2023 to 12/31/2023.

Fargo - 06/05/2023: Corn, silage

Field name: Fargo

Crop: Corn, silage

Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	180.58	58.42	175.96	2,252.80
Process wastewater	157.33	20.43	119.61	724.67
Fresh water	15.89	0.00	0.00	2,164.52
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	358.48	78.85	295.58	5,141.99
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	322.78	43.96	234.61	1,095.70
Nutrient balance	35.70	34.90	60.97	4,046.28
Applied to removed ratio	1.11	1.79	1.26	4.69

Fresh water applied

18,459,500.00 gallons
679.80 acre-inches
42.49 inches/acre

Process wastewater applied

1,116,000.00 gallons
41.10 acre-inches
2.57 inches/acre

Total harvests for the crop

1 harvests

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

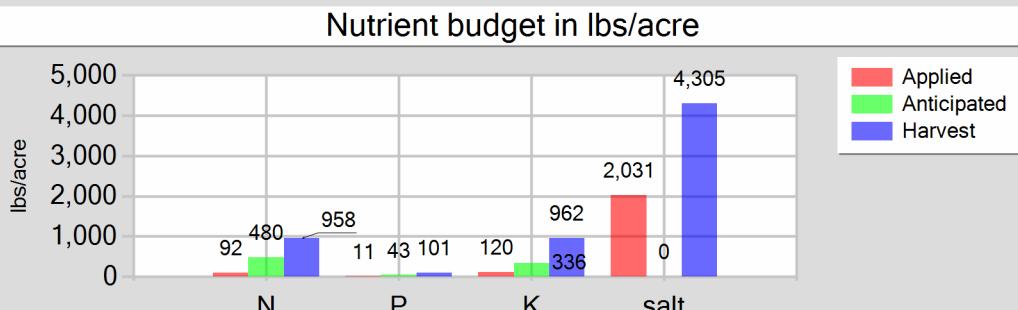
Reporting period 01/01/2023 to 12/31/2023.

Manuels - 03/23/2022: Alfalfa, hay

Field name: Manuels

Crop: Alfalfa, hay

Plant date: 03/23/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	55.50	10.68	120.05	421.25
Fresh water	22.75	0.00	0.00	1,609.52
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	92.25	10.68	120.05	2,030.76
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	957.82	101.46	961.75	4,304.50
Nutrient balance	-865.57	-90.78	-841.70	-2,273.74
Applied to removed ratio	0.10	0.11	0.12	0.47

Fresh water applied

29,768,000.00 gallons
1,096.25 acre-inches
54.81 inches/acre

Process wastewater applied

324,000.00 gallons
11.93 acre-inches
0.60 inches/acre

Total harvests for the crop

7 harvests

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

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

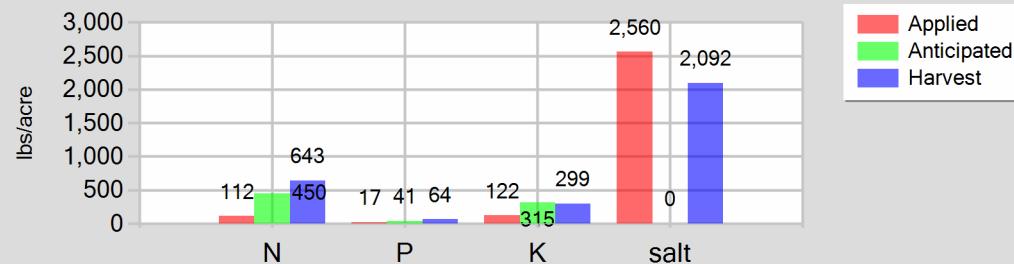
N 50 - 10/16/2019: Alfalfa, hay

Field name: N 50

Crop: Alfalfa, hay

Plant date: 10/16/2019

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	64.58	17.47	122.00	346.44
Fresh water	33.82	0.00	0.00	2,213.49
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	112.40	17.47	122.00	2,559.93
Anticipated crop nutrient removal	450.00	40.50	315.00	0.00
Actual crop nutrient removal	642.67	63.53	298.93	2,092.06
Nutrient balance	-530.27	-46.06	-176.93	467.87
Applied to removed ratio	0.17	0.27	0.41	1.22

Fresh water applied

36,903,000.00 gallons
1,359.01 acre-inches
54.36 inches/acre

Process wastewater applied

317,000.00 gallons
11.67 acre-inches
0.47 inches/acre

Total harvests for the crop

8 harvests

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

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

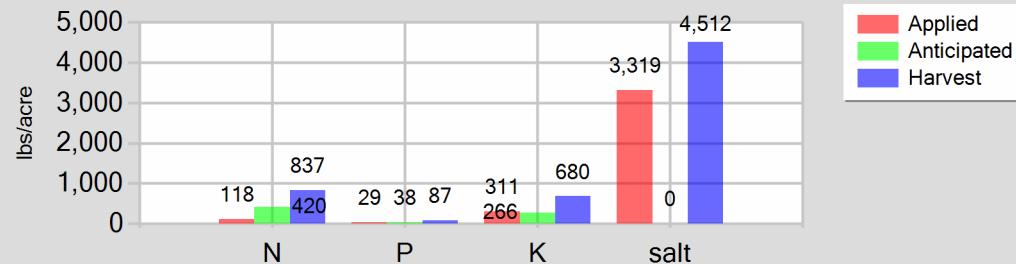
N Davids - 12/05/2021: Alfalfa, hay

Field name: N Davids

Crop: Alfalfa, hay

Plant date: 12/05/2021

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	53.46	28.76	310.62	816.81
Fresh water	50.57	0.00	0.00	2,502.21
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	118.03	28.76	310.62	3,319.02
Anticipated crop nutrient removal	420.00	37.80	266.00	0.00
Actual crop nutrient removal	836.55	86.88	680.45	4,512.48
Nutrient balance	-718.53	-58.12	-369.84	-1,193.46
Applied to removed ratio	0.14	0.33	0.46	0.74

Fresh water applied

25,443,900.00 gallons
937.01 acre-inches
55.12 inches/acre

Process wastewater applied

279,000.00 gallons
10.27 acre-inches
0.60 inches/acre

Total harvests for the crop

8 harvests

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

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

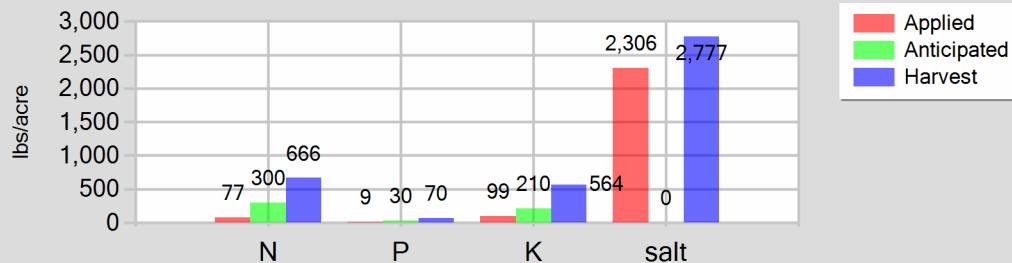
N Jacc - 10/29/2015: Alfalfa, hay

Field name: N Jacc

Crop: Alfalfa, hay

Plant date: 10/29/2015

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	45.63	8.78	98.71	346.36
Fresh water	17.07	0.00	0.00	1,960.06
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	76.70	8.78	98.71	2,306.42
Anticipated crop nutrient removal	300.00	30.00	210.00	0.00
Actual crop nutrient removal	665.75	70.22	564.20	2,776.93
Nutrient balance	-589.05	-61.44	-465.49	-470.51
Applied to removed ratio	0.12	0.13	0.17	0.83

Fresh water applied

36,876,600.00 gallons
1,358.04 acre-inches
54.32 inches/acre

Process wastewater applied

333,000.00 gallons
12.26 acre-inches
0.49 inches/acre

Total harvests for the crop

7 harvests

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

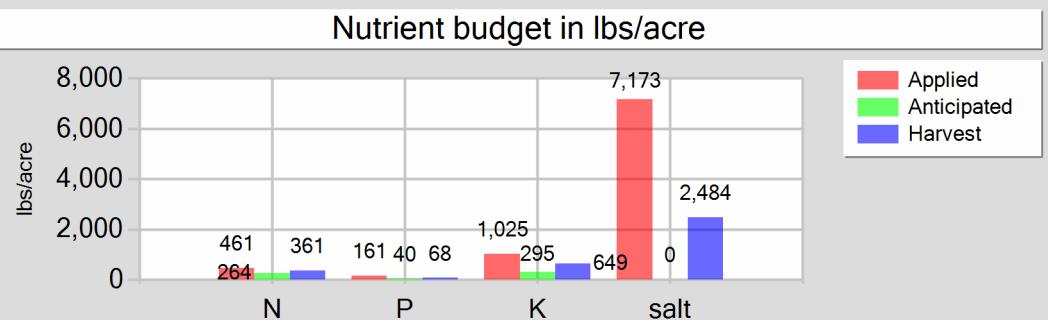
Reporting period 01/01/2023 to 12/31/2023.

NW - 10/29/2022: 50% Rye grass/ 50% Barley

Field name: NW

Crop: 50% Rye grass/ 50% Barley

Plant date: 10/29/2022



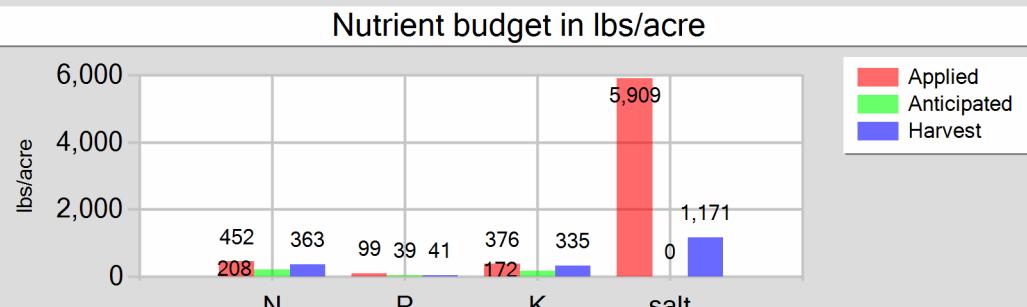
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	7,289,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	268.43 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	20.65 inches/acre
Dry manure	336.49	102.51	395.89	4,564.62	
Process wastewater	108.25	58.24	628.94	1,653.88	Process wastewater applied
Fresh water	7.34	0.00	0.00	954.63	432,000.00 gallons
Atmospheric deposition	9.33	0.00	0.00	0.00	15.91 acre-inches
Total nutrients applied	461.41	160.74	1,024.83	7,173.13	1.22 inches/acre
Anticipated crop nutrient removal	264.00	39.60	294.80	0.00	
Actual crop nutrient removal	361.14	67.84	649.00	2,484.31	Total harvests for the crop
Nutrient balance	100.27	92.90	375.83	4,688.82	2 harvests
Applied to removed ratio	1.28	2.37	1.58	2.89	

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

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

NW - 06/12/2023: Corn, silage

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



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	222.26	71.91	216.57	2,772.68
Process wastewater	196.12	27.26	159.34	956.70
Fresh water	28.86	0.00	0.00	2,179.41
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	451.91	99.17	375.91	5,908.78
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	363.21	41.21	334.54	1,170.87
Nutrient balance	88.70	57.96	41.37	4,737.91
Applied to removed ratio	1.24	2.41	1.12	5.05

Fresh water applied

15,354,000.00 gallons
565.44 acre-inches
43.50 inches/acre

Process wastewater applied

1,051,500.00 gallons
38.72 acre-inches
2.98 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.

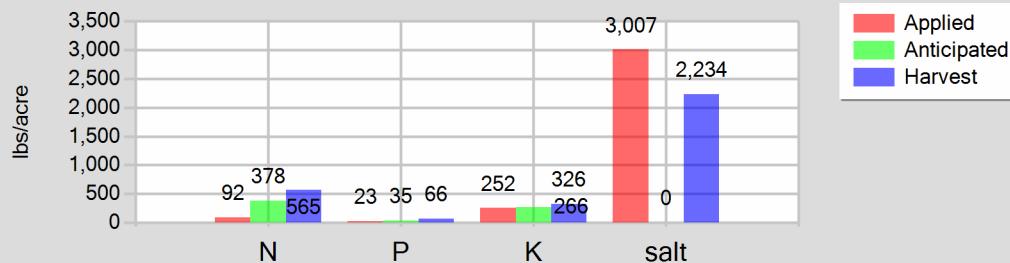
S 50 - 10/16/2019: Alfalfa, hay

Field name: S 50

Crop: Alfalfa, hay

Plant date: 10/16/2019

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	43.39	23.34	252.10	662.93
Fresh water	34.89	0.00	0.00	2,344.28
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	92.28	23.34	252.10	3,007.21
Anticipated crop nutrient removal	378.00	35.00	266.00	0.00
Actual crop nutrient removal	564.90	66.43	325.64	2,233.70
Nutrient balance	-472.61	-43.08	-73.54	773.51
Applied to removed ratio	0.16	0.35	0.77	1.35

Fresh water applied

36,952,000.00 gallons
1,360.82 acre-inches
54.43 inches/acre

Process wastewater applied

333,000.00 gallons
12.26 acre-inches
0.49 inches/acre

Total harvests for the crop

7 harvests

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

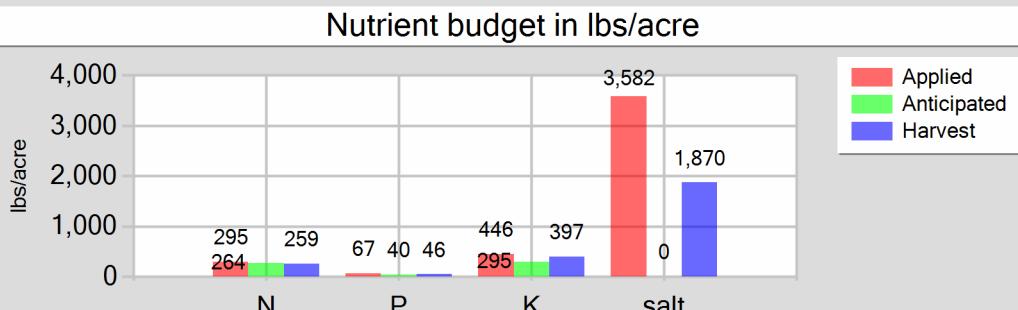
Reporting period 01/01/2023 to 12/31/2023.

S Davids - 11/14/2022: 50% Rye grass / 50% Barley

Field name: S Davids

Crop: 50% Rye grass / 50% Barley

Plant date: 11/14/2022



	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	115.57	37.39	112.62	1,689.60
Process wastewater	154.15	29.67	333.47	1,170.14
Fresh water	15.61	0.00	0.00	721.85
Atmospheric deposition	9.33	0.00	0.00	0.00
Total nutrients applied	294.67	67.06	446.08	3,581.59
Anticipated crop nutrient removal	264.00	39.60	294.80	0.00
Actual crop nutrient removal	258.51	45.76	397.30	1,869.65
Nutrient balance	36.16	21.30	48.78	1,711.94
Applied to removed ratio	1.14	1.47	1.12	1.92

Fresh water applied

2,089,200.00 gallons
76.94 acre-inches
15.39 inches/acre

Process wastewater applied

225,000.00 gallons
8.29 acre-inches
1.66 inches/acre

Total harvests for the crop

2 harvests

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

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

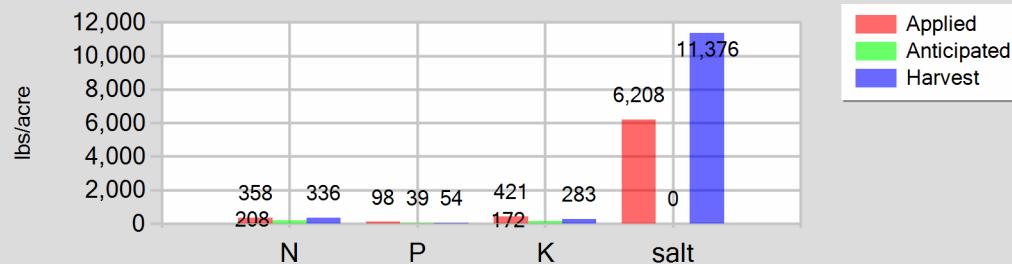
S Davids - 06/10/2023: Corn, silage

Field name: S Davids

Crop: Corn, silage

Plant date: 06/10/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	262.46	79.95	308.79	3,560.40
Process wastewater	43.39	18.31	111.76	573.92
Fresh water	47.23	0.00	0.00	2,073.18
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	357.74	98.27	420.55	6,207.50
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	335.77	53.85	283.17	11,375.76
Nutrient balance	21.97	44.42	137.38	-5,168.26
Applied to removed ratio	1.07	1.82	1.49	0.55

Fresh water applied

6,091,200.00 gallons
224.32 acre-inches
44.86 inches/acre

Process wastewater applied

216,000.00 gallons
7.95 acre-inches
1.59 inches/acre

Total harvests for the crop

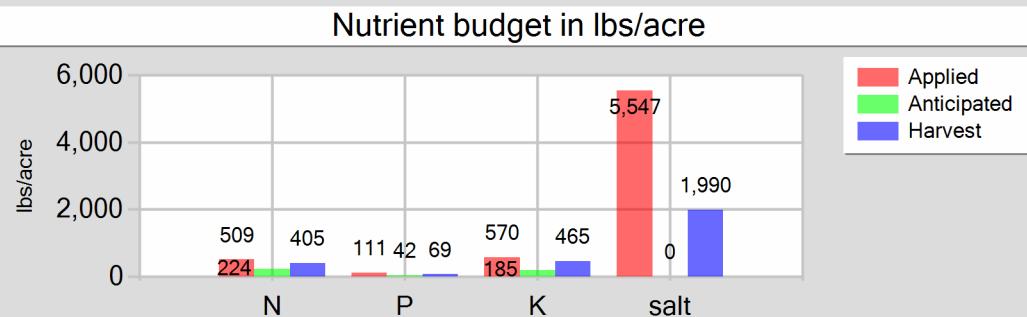
1 harvests

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

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

S Jacc - 05/15/2023: Corn, silage

Field name: S Jacc Crop: Corn, silage Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	205.85	62.71	242.19	2,792.47
Process wastewater	275.60	48.31	327.80	1,100.93
Fresh water	20.79	0.00	0.00	1,653.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	509.24	111.02	569.99	5,546.71
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	404.72	69.47	464.84	1,990.34
Nutrient balance	104.53	41.55	105.15	3,556.37
Applied to removed ratio	1.26	1.60	1.23	2.79

Fresh water applied

19,160,000.00 gallons
705.60 acre-inches
41.51 inches/acre

Process wastewater applied

1,096,500.00 gallons
40.38 acre-inches
2.38 inches/acre

Total harvests for the crop

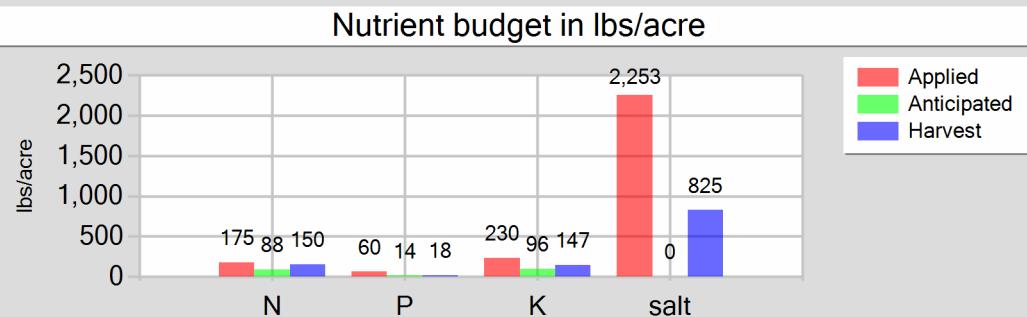
1 harvests

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

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

S Jacc - 09/02/2023: Sudangrass, silage

Field name: S Jacc Crop: Sudangrass, silage Plant date: 09/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	149.55	60.31	230.24	994.73
Fresh water	18.11	0.00	0.00	1,257.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	174.66	60.31	230.24	2,252.66
Anticipated crop nutrient removal	88.00	13.60	96.00	0.00
Actual crop nutrient removal	149.89	18.47	147.08	825.08
Nutrient balance	24.78	41.84	83.17	1,427.58
Applied to removed ratio	1.17	3.26	1.57	2.73

Fresh water applied

11,337,100.00 gallons
417.51 acre-inches
24.56 inches/acre

Process wastewater applied

840,575.00 gallons
30.96 acre-inches
1.82 inches/acre

Total harvests for the crop

1 harvests

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

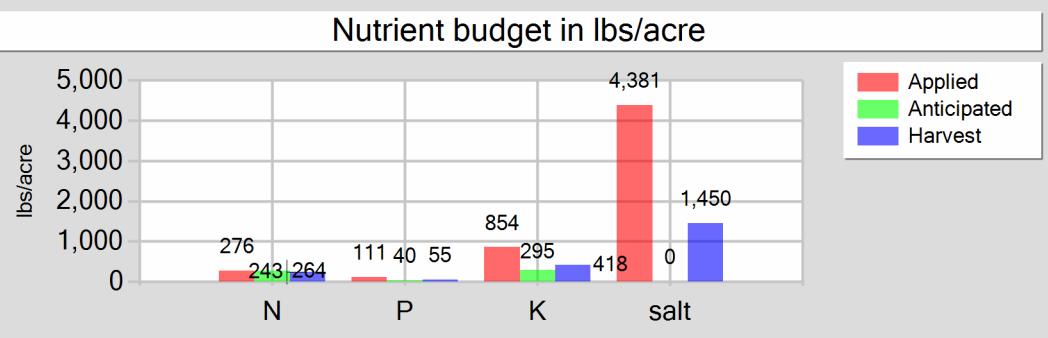
Reporting period 01/01/2023 to 12/31/2023.

W 17th - 12/26/2022: 50% Rye grass / 50% Barley

Field name: W 17th

Crop: 50% Rye grass / 50% Barley

Plant date: 12/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	135.97	43.99	132.49	1,696.23
Process wastewater	124.16	66.80	721.43	1,897.10
Fresh water	9.21	0.00	0.00	787.50
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	276.34	110.79	853.92	4,380.82
Anticipated crop nutrient removal	264.00	39.60	294.80	0.00
Actual crop nutrient removal	243.18	55.25	417.60	1,450.00
Nutrient balance	33.16	55.54	436.32	2,930.82
Applied to removed ratio	1.14	2.01	2.04	3.02

Fresh water applied

8,577,000.00 gallons
315.86 acre-inches
18.58 inches/acre

Process wastewater applied

648,000.00 gallons
23.86 acre-inches
1.40 inches/acre

Total harvests for the crop

1 harvests

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

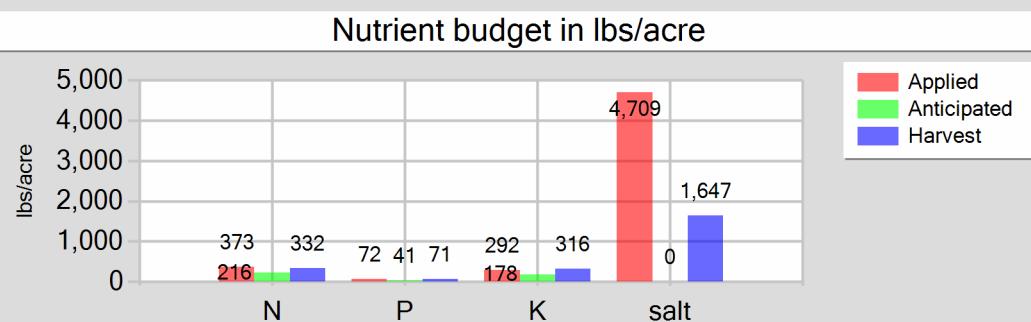
Reporting period 01/01/2023 to 12/31/2023.

W 17th - 06/04/2023: Corn, silage

Field name: W 17th

Crop: Corn, silage

Plant date: 06/04/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	205.85	62.71	242.19	2,792.47
Process wastewater	149.59	9.35	50.26	392.21
Fresh water	10.81	0.00	0.00	1,524.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	373.25	72.06	292.45	4,709.21
Anticipated crop nutrient removal	216.00	40.50	178.20	0.00
Actual crop nutrient removal	332.48	70.53	315.74	1,647.36
Nutrient balance	40.77	1.53	-23.29	3,061.85
Applied to removed ratio	1.12	1.02	0.93	2.86

Fresh water applied

20,514,000.00 gallons
755.46 acre-inches
44.44 inches/acre

Process wastewater applied

648,000.00 gallons
23.86 acre-inches
1.40 inches/acre

Total harvests for the crop

1 harvests

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

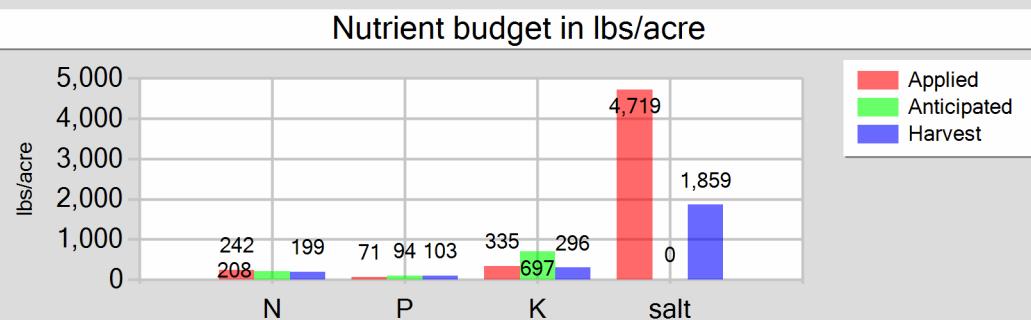
Reporting period 01/01/2023 to 12/31/2023.

WCenter 17th - 04/25/2023: Corn, silage

Field name: WCenter 17th

Crop: Corn, silage

Plant date: 04/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	145.81	44.42	171.55	1,978.00
Process wastewater	63.27	26.71	162.98	836.97
Fresh water	25.89	0.00	0.00	1,904.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	241.97	71.13	334.53	4,719.35
Anticipated crop nutrient removal	208.00	93.60	696.80	0.00
Actual crop nutrient removal	198.69	102.82	295.68	1,859.20
Nutrient balance	43.29	-31.69	38.85	2,860.15
Applied to removed ratio	1.22	0.69	1.13	2.54

Fresh water applied

20,484,900.00 gallons
754.39 acre-inches
41.91 inches/acre

Process wastewater applied

1,134,000.00 gallons
41.76 acre-inches
2.32 inches/acre

Total harvests for the crop

1 harvests

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

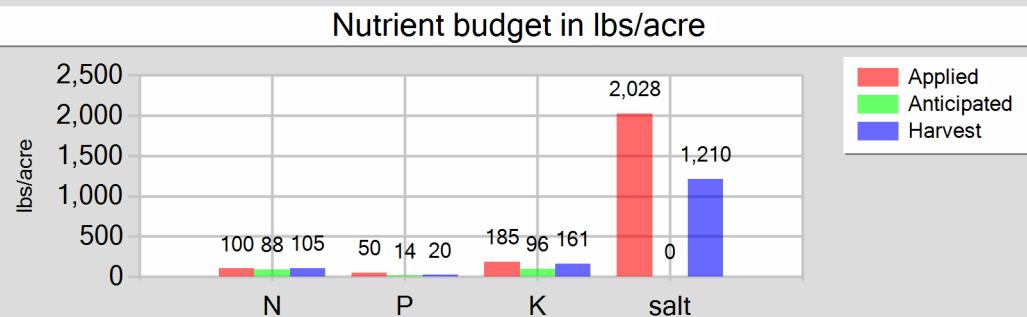
Reporting period 01/01/2023 to 12/31/2023.

WCenter 17th - 09/03/2023: Sudangrass, silage

Field name: WCenter 17th

Crop: Sudangrass, silage

Plant date: 09/03/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	76.42	49.85	184.88	733.36
Fresh water	16.81	0.00	0.00	1,294.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	100.23	49.85	184.88	2,027.78
Anticipated crop nutrient removal	88.00	13.60	96.00	0.00
Actual crop nutrient removal	105.06	20.35	161.15	1,210.00
Nutrient balance	-4.83	29.50	23.73	817.78
Applied to removed ratio	0.95	2.45	1.15	1.68

Fresh water applied

14,069,500.00 gallons
518.13 acre-inches
28.79 inches/acre

Process wastewater applied

531,000.00 gallons
19.55 acre-inches
1.09 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.

NUTRIENT ANALYSES**A. MANURE ANALYSES****Manure-corral**Sample and source description: Manure-corralSample date: 05/12/2023 Material type: Corral solidsSource of analysis: Lab analysisMethod of reporting: Dry-weightMoisture: 1.1 %

	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	22,115.00	6,737.00	26,019.00							30.00
DL	500.00	100.00	200.00							0.67

Manure-corral solidsSample and source description: Manure-corral solidsSample date: 10/11/2023 Material type: Corral solidsSource of analysis: Lab analysisMethod of reporting: Dry-weightMoisture: 29.6 %

	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	20,521.00	6,639.00	19,996.00							25.60
DL	500.00	100.00	200.00							0.67

B. PROCESS WASTEWATER ANALYSES**N pit**Sample and source description: N pitSample date: 03/30/2023 Material type: Process wastewaterSource of analysis: Lab analysispH: 7.79

	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	610.00	159.70	4.30	0.30	165.10	1,153.00								5,117.00	3,274
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

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

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

S pit

Sample and source description: S pit

Sample date: 03/30/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.74

	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	390.00	147.40	3.60	0.34	210.00	2,268.00								9,319.00	5,964
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

N pit

Sample and source description: N pit

Sample date: 05/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.27

	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	410.00	148.80	0.00	0.50	79.00	888.00								4,869.00	3,116
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

S pit

Sample and source description: S pit

Sample date: 05/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.21

	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	120.00	92.10	0.00	0.35	50.80	310.00								2,489.00	1,592
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

N pit

Sample and source description: N pit

Sample date: 08/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.26

	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	470.00	66.30	0.00	0.26	29.40	158.00								1,927.00	1,233
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

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

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

S pit

Sample and source description: S pit

Sample date: 08/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.26

	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	420.00	42.50	0.00	0.26	19.40	101.00								1,404.00	898
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

N pit

Sample and source description: N pit

Sample date: 10/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.76

	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	660.00	354.30	10.10	0.47	47.10	1,087.00								6,277.00	4,017
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

S pit

Sample and source description: S pit

Sample date: 10/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 6.51

	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	310.00	142.90	0.00	0.43	202.50	751.00								4,655.00	2,979
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

C. FRESH WATER ANALYSES

15904 Fargo domestic

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

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

15904 Fargo domestic

15904 Fargo Domestic

Sample description: 15904 Fargo Domestic

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	0.00										310.00	
DL	0.23										1.00	

16th

16th

Sample description: 16th

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	3.10										560.00	
DL	0.23										1.00	

17th

17th

Sample description: 17th

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	1.50										390.00	
DL	0.23										1.00	

7590. 16th Domestic

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

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

7590. 16th Domestic**7590 16th Domestic**Sample description: 7590 16th DomesticSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										330.00	
DL	0.23										1.00	

7900 16th domestic**7900 16th Domestic**Sample description: 7900 16th DomesticSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										300.00	
DL	0.23										1.00	

7908 15th domestic**7908 15th domestic**Sample description: 7908 15th domesticSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00			2.30	0.00	76.00	91.00	25.00	37.00	14.00	360.00	220
DL	0.23			0.10	0.10	1.00	3.00	3.00	1.00	1.00	1.00	5

7976 domestic

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

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

7976 domestic**7976 domestic**Sample description: 7976 domesticSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00			2.30	0.00	78.00	88.00	28.00	37.00	14.00	350.00	230
DL	0.23			0.10	0.10	1.00	3.00	3.00	1.00	1.00	1.00	5

Barn Domestic**Barn Domestic**Sample description: Barn DomesticSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00			2.10	0.00	73.00	90.00	24.00	29.00	12.00	330.00	220
DL	0.23			0.10	0.10	1.00	3.00	3.00	1.00	1.00	1.00	5

Bridge**Bridge**Sample description: BridgeSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										290.00	
DL	0.23										1.00	

Canal

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

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

Canal**Canal**Sample description: CanalSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										18.00	17
DL	0.23										1.00	5

Claudine's**Claudine's**Sample description: Claudine'sSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	8.50										590.00	
DL	0.23										1.00	

Comm**Comm**Sample description: CommSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	9.10										470.00	
DL	0.23										1.00	

Diesel

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

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

Diesel**Diesel**

Sample description: Diesel

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00			0.97	0.15	56.00	85.00	23.00	8.30	6.40	250.00	190
DL	0.23			0.10	0.10	1.00	3.00	3.00	1.00	1.00	1.00	5

E Jacc**E Jacc**

Sample description: E Jacc

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	4.60										270.00	
DL	0.23										1.00	

Fargo**Fargo**

Sample description: Fargo

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.20										320.00	
DL	0.23										1.00	

Fargo Flush

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

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

Fargo Flush

Fargo Flush

Sample description: Fargo Flush

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	7.10			30.00	7.60	63.00	110.00	0.00	78.00	36.00	570.00	270
DL	0.23			0.10	0.10	1.00	3.00	3.00	1.00	1.00	1.00	5

Horse Ranch

Horse Ranch

Sample description: Horse Ranch

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.26										62.00	
DL	0.23										1.00	

Jacc 50hp

Jacc 50hp

Sample description: Jacc 50hp

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										260.00	
DL	0.23										1.00	

Jacc 5hp

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

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

Jacc 5hp**Jacc 5hp**Sample description: Jacc 5hpSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	9.00										470.00	
DL	0.23										0.23	

Manuel's**Manuel's**Sample description: Manuel'sSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	3.60										230.00	
DL	0.23										1.00	

New Barn domestic**New barn Domestic**Sample description: New barn DomesticSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										220.00	
DL	0.23										1.00	

NW

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

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

NW

NW

Sample description: NW

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	6.70										370.00	
DL	0.23										1.00	

Perry

Perry

Sample description: Perry

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.70										330.00	
DL	0.23										1.00	

Shop

Shop

Sample description: Shop

Sample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	3.10										690.00	
DL	0.23										1.00	

W 17th

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

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

W 17th**W 17th**Sample description: W 17thSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.30										520.00	
DL	0.23										1.00	

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

15 th - 10/31/2022: 50% Rye grass/ 50% Barley

15th forageSample and source description: 15th forageSample date: 04/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 74.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,650.00	3,850.00	36,300.00		11.70
DL	500.00	100.00	200.00		0.67

15th forageSample and source description: 15th forageSample date: 06/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,503.00	2,850.00	28,100.00		12.80
DL	500.00	100.00	200.00		0.67

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

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

15 th - 07/14/2023: Corn, silage

15th corn

Sample and source description: 15th corn

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

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,550.00	4,070.00	17,900.00		6.60
DL	500.00	100.00	200.00		0.67

17 acres - 11/14/2022: 50% Rye grass / 50% Barley

17ac

Sample and source description: 17ac

Sample date: 04/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 79.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,196.00	5,410.00	45,000.00		14.90
DL	500.00	100.00	200.00		0.67

17 ac forage

Sample and source description: 17 ac forage

Sample date: 06/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,140.00	2,660.00	18,500.00		66.40
DL	500.00	100.00	200.00		0.67

17 acres - 07/16/2023: Corn, silage

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

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

17 acres - 07/16/2023: Corn, silage

17 acres

Sample and source description: 17 acres

Sample date: 11/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,546.00	2,940.00	12,100.00		5.30
DL	500.00	100.00	200.00		0.67

Center Jacc - 10/29/2015: Alfalfa, hay

Center Jacc

Sample and source description: Center Jacc

Sample date: 08/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 51.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,068.00	4,160.00	15,400.00		12.10
DL	500.00	100.00	200.00		0.67

Center Jac

Sample and source description: Center Jac

Sample date: 11/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	39,790.00	3,110.00	20,000.00		13.80
DL	500.00	100.00	200.00		0.67

Claudines - 11/14/2022: 50% Rye grass / 50% Barley

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

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

Claudines - 11/14/2022: 50% Rye grass / 50% Barley

Claudines forage

Sample and source description: Claudines forage

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,120.00	4,490.00	39,400.00		15.00
DL	500.00	100.00	200.00		0.67

Claudine's forage

Sample and source description: Claudine's forage

Sample date: 06/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,990.00	3,070.00	17,700.00		64.00
DL	500.00	100.00	200.00		0.67

Claudines - 07/12/2023: Corn, silage

Claudines

Sample and source description: Claudines

Sample date: 11/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,546.00	2,700.00	11,800.00		7.90
DL	500.00	100.00	200.00		0.67

E Center 17th - 11/02/2017: Alfalfa, hay

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

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

E Center 17th - 11/02/2017: Alfalfa, hay

E Center 17th

Sample and source description: E Center 17th

Sample date: 06/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,496.00	3,010.00	17,500.00		11.00
DL	500.00	100.00	200.00		0.67

E. 17th - 11/22/2022: Alfalfa, hay

E 17th Alfalfa

Sample and source description: E 17th Alfalfa

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

Moisture: 56.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	39,128.00	3,770.00	35,700.00		15.30
DL	500.00	100.00	200.00		0.67

E 17th-Alfalfa

Sample and source description: E 17th-Alfalfa

Sample date: 12/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	40,388.00	3,500.00	30,700.00		16.60
DL	500.00	100.00	200.00		0.67

Fargo - 10/07/2022: 50% Rye grass/ 50% Barley

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

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

Fargo - 10/07/2022: 50% Rye grass/ 50% Barley

Fargo-forage

Sample and source description: Fargo-forage

Sample date: 02/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 80.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,120.00	5,200.00	39,400.00		14.40
DL	500.00	100.00	211.00		0.67

Fargo forage

Sample and source description: Fargo forage

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 79.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,184.00	4,360.00	43,900.00		15.00
DL	500.00	100.00	200.00		0.67

Fargo - 06/05/2023: Corn, silage

Fargo

Sample and source description: Fargo

Sample date: 08/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,040.00	3,410.00	18,200.00		8.50
DL	500.00	100.00	200.00		0.67

Manuels - 03/23/2022: Alfalfa, hay

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

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

Manuels - 03/23/2022: Alfalfa, hay

Manuel's

Sample and source description: Manuel's

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,666.00	3,980.00	39,500.00		16.70
DL	500.00	100.00	200.00		0.67

Manuels

Sample and source description: Manuels

Sample date: 12/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	42,200.00	3,710.00	30,800.00		16.20
DL	500.00	100.00	200.00		0.67

N 50 - 10/16/2019: Alfalfa, hay

N 50 Alfalfa

Sample and source description: N 50 Alfalfa

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,496.00	3,010.00	17,500.00		11.00
DL	500.00	100.00	200.00		0.67

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

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

N 50 - 10/16/2019: Alfalfa, hay

N 50 alfalfa

Sample and source description: N 50 alfalfa

Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,772.00	4,020.00	14,200.00		11.70
DL	500.00	100.00	200.00		0.67

N Davids - 12/05/2021: Alfalfa, hay

N Davids

Sample and source description: N Davids

Sample date: 03/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 77.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,010.00	3,710.00	29,000.00		20.40
DL	500.00	100.00	200.00		0.67

N Davids

Sample and source description: N Davids

Sample date: 08/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,100.00	3,158.00	24,792.00		15.20
DL	500.00	100.00	200.00		0.67

N Jacc - 10/29/2015: Alfalfa, hay

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

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

N Jacc - 10/29/2015: Alfalfa, hay

N Jacc

Sample and source description: N Jacc

Sample date: 02/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,430.00	4,600.00	37,700.00		18.20
DL	500.00	100.00	200.00		0.67

N Jacc

Sample and source description: N Jacc

Sample date: 11/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	41,230.00	2,960.00	23,300.00		11.70
DL	500.00	100.00	200.00		0.67

NW - 10/29/2022: 50% Rye grass/ 50% Barley

NW Forage

Sample and source description: NW Forage

Sample date: 02/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	43,410.00	6,430.00	56,000.00		20.60
DL	500.00	100.00	200.00		0.67

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

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

NW - 10/29/2022: 50% Rye grass/ 50% Barley

NW forage

Sample and source description: NW forage

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,634.00	4,160.00	43,100.00		17.00
DL	500.00	100.00	200.00		0.67

NW - 06/12/2023: Corn, silage

NW

Sample and source description: NW

Sample date: 09/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,886.00	2,710.00	22,000.00		7.70
DL	500.00	100.00	0.67		0.67

S 50 - 10/16/2019: Alfalfa, hay

S 50

Sample and source description: S 50

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,646.00	3,490.00	18,400.00		12.20
DL	500.00	100.00	200.00		0.67

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

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

S 50 - 10/16/2019: Alfalfa, hay

S 50 Alfalfa

Sample and source description: S 50 Alfalfa

Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,298.00	4,080.00	18,000.00		13.00
DL	500.00	100.00	200.00		0.67

S Davids - 11/14/2022: 50% Rye grass / 50% Barley

S Davids forage

Sample and source description: S Davids forage

Sample date: 03/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 82.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,370.00	5,030.00	47,300.00		26.00
DL	500.00	100.00	200.00		0.67

S Davids

Sample and source description: S Davids

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,400.00	4,000.00	33,300.00		14.20
DL	500.00	100.00	200.00		0.67

S Davids - 06/10/2023: Corn, silage

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

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

S Davids - 06/10/2023: Corn, silage

S David's

Sample and source description: S David's

Sample date: 09/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,514.00	3,290.00	17,300.00		69.50
DL	500.00	100.00	200.00		0.67

S Jacc - 05/15/2023: Corn, silage

S Jacc-corn

Sample and source description: S Jacc-corn

Sample date: 08/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 79.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,518.00	5,410.00	36,200.00		15.50
DL	500.00	100.00	200.00		0.67

S Jacc - 09/02/2023: Sudangrass, silage

S Jacc

Sample and source description: S Jacc

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

Moisture: 79.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,070.00	3,090.00	24,600.00		13.80
DL	500.00	100.00	200.00		0.67

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

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

W 17th - 12/26/2022: 50% Rye grass / 50% Barley

W 17th

Sample and source description: W 17th

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,771.00	3,810.00	28,800.00		10.00
DL	500.00	100.00	200.00		0.67

W 17th - 06/04/2023: Corn, silage

W 17th-corn

Sample and source description: W 17th-corn

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

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,375.00	4,110.00	18,400.00		9.60
DL	500.00	100.00	200.00		0.67

WCenter 17th - 04/25/2023: Corn, silage

W center 17th

Sample and source description: W center 17th

Sample date: 08/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,870.00	4,590.00	13,200.00		8.30
DL	500.00	100.00	200.00		0.67

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

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

WCenter 17th - 09/03/2023: Sudangrass, silage

W Center 17th

Sample and source description: W Center 17th

Sample date: 11/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 78.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,102.00	3,700.00	29,300.00		22.00
DL	500.00	100.00	200.00		0.67

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

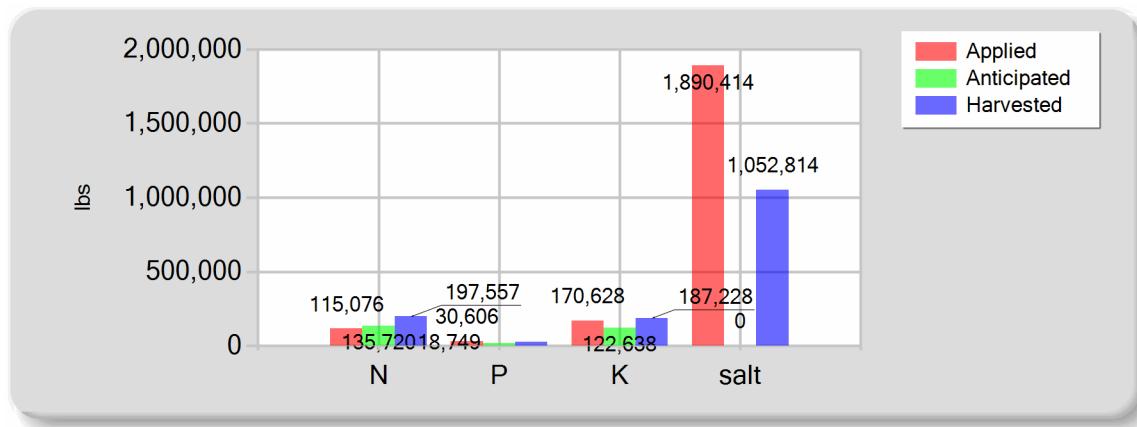
No subsurface (tile) drainage analyses entered.

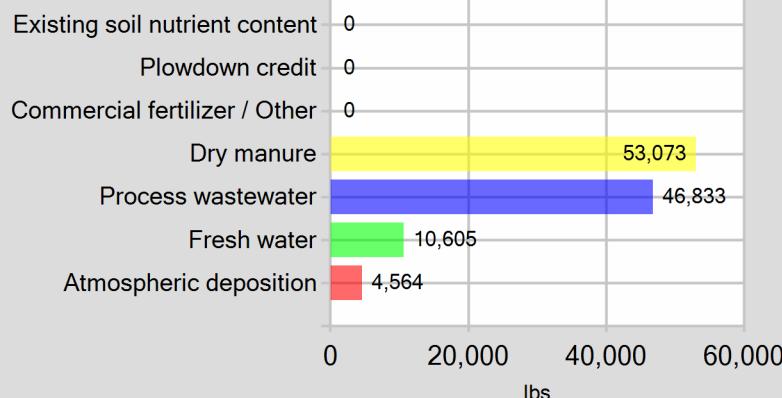
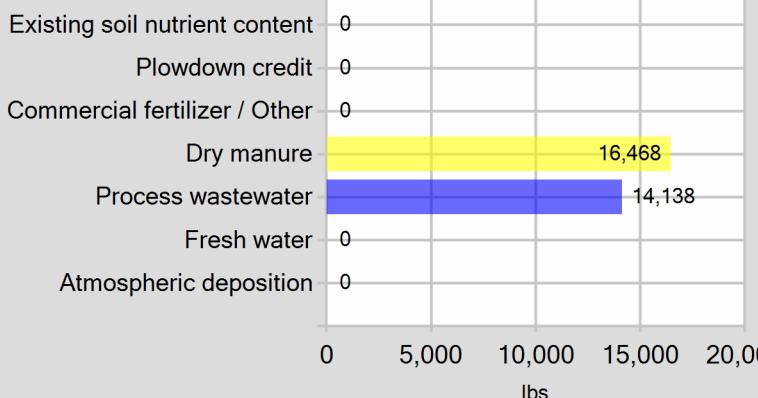
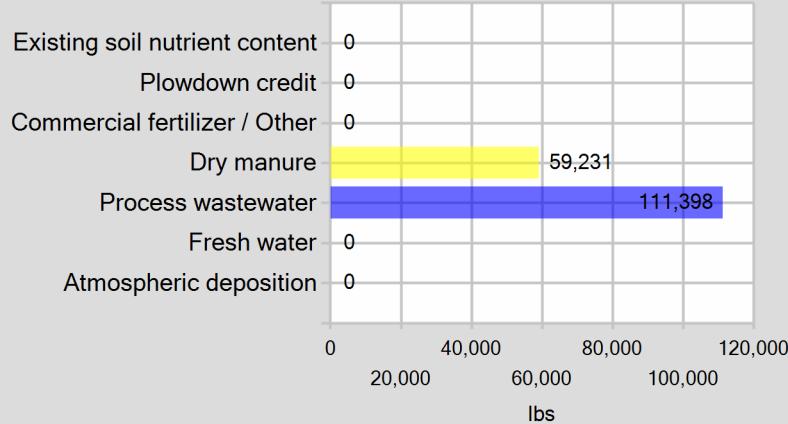
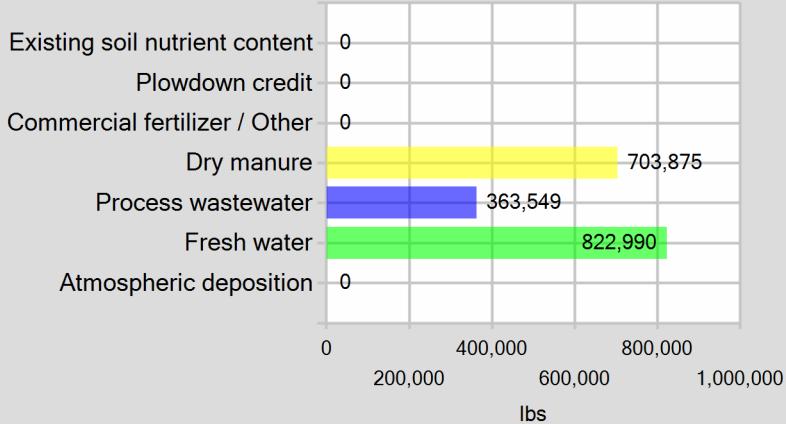
Annual Report - General Order No. R5-2007-0035

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	53,073.41	16,468.16	59,230.65	703,875.44
Process wastewater	46,833.44	14,137.96	111,397.52	363,549.10
Fresh water	10,605.23	0.00	0.00	822,989.79
Atmospheric deposition	4,564.00	0.00	0.00	0.00
Total nutrients applied	115,076.07	30,606.12	170,628.17	1,890,414.32
Anticipated crop nutrient removal	135,720.00	18,749.00	122,637.60	0.00
Actual crop nutrient removal	197,557.03	28,246.08	187,227.55	1,052,814.33
Nutrient balance	-82,480.96	2,360.04	-16,599.38	837,599.99
Applied to removed ratio	0.58	1.08	0.91	1.80

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

The Rye Grass / Barley fields were harvested twice so they required a little more water even with a wet year.

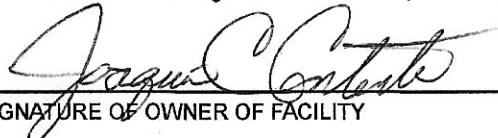
Annual Report - General Order No. R5-2007-0035

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

Joaquin Cardoso Contente, Jr

PRINT OR TYPE NAME

6/29/24

DATE



SIGNATURE OF OPERATOR OF FACILITY

Claudine Contente

PRINT OR TYPE NAME

6/30/24

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.



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGI1454

9/27/2023

Invoice: AG22683

Claudine Contente
Contente & Co
7900 15th Ave
Hanford, CA 93236

RE: Report for AGI1454 RB5 Surface

Dear Claudine Contente,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 9/12/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, PM Staff , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Adam Trevarrow, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGI1454 FINAL 09272023 1031



AGI1454

RB5 Surface

Case Narrative

Project and Report Details		Invoice Details
Client:	Contente & Co	Invoice To: Contente & Co
Report To:	Claudine Contente	Invoice Attn: Claudine Contente
Project #:	RB5 Surface	Project PO#: -
Received:	9/12/2023 - 15:51	
Report Due:	9/26/2023	

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 30.4

Containers Intact
COC/Labels Agree
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- DP1.1 Sample Duplicate RPD exceeded method acceptance criteria.
MS1.0 Matrix spike recoveries exceed control limits.
MS2.0 MS/MSD RPD exceeds control limit. No material impact as both sets of recovery data meet control criteria.

Report Distribution

Recipient(s)	Report Format	CC:
Claudine Contente	FINAL.RPT	
Madison Hall	FINAL.RPT	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-01

Sample Date - Time: 09/12/2023 - 09:47

Sampled By: Madison Looper

Matrix: Water

Sample Description: 17th

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	390	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	1.5	0.23	mg/L	1	AGI0714	09/13/23 15:12	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-02

Sample Date - Time: 09/12/2023 - 10:00

Sampled By: Madison Looper

Matrix: Water

Sample Description: Jace 5hp

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	470	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	9.0	0.23	mg/L	1	AGI0714	09/13/23 14:57	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-03

Sample Date - Time: 09/12/2023 - 10:02

Sampled By: Madison Looper

Matrix: Water

Sample Description: Jace 50hp

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	260	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0714	09/13/23 14:42	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-04

Sample Date - Time: 09/12/2023 - 10:10

Sampled By: Madison Looper

Matrix: Water

Sample Description: E Jace

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	270	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	4.6	0.23	mg/L	1	AGI0714	09/13/23 13:57	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-05

Sample Date - Time: 09/12/2023 - 10:17

Sampled By: Madison Looper

Matrix: Water

Sample Description: 7900 16th Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	300	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0714	09/13/23 15:27	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-06

Sample Date - Time: 09/12/2023 - 10:28

Sampled By: Madison Looper

Matrix: Water

Sample Description: 7590 16th Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	330	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0663	09/13/23 03:28	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-07

Sample Date - Time: 09/12/2023 - 10:30

Sampled By: Madison Looper

Matrix: Water

Sample Description: 16th

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	560	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	3.1	0.23	mg/L	1	AGI0663	09/13/23 03:12	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-08

Sample Date - Time: 09/12/2023 - 10:32

Sampled By: Madison Looper

Matrix: Water

Sample Description: Horse Ranch

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	62	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	0.26	0.23	mg/L	1	AGI0663	09/13/23 02:57	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-09

Sample Date - Time: 09/12/2023 - 10:35

Sampled By: Madison Looper

Matrix: Water

Sample Description: Fargo

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	320	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	1.2	0.23	mg/L	1	AGI0663	09/13/23 02:41	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-10

Sample Date - Time: 09/12/2023 - 10:40

Sampled By: Madison Looper

Matrix: Water

Sample Description: 15904 Fargo Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	310	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0663	09/13/23 02:25	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-11

Sample Date - Time: 09/12/2023 - 10:45

Sampled By: Madison Looper

Matrix: Water

Sample Description: Diesel

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	110	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	
Bicarbonate as CaCO ₃	SM 2320B	85	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	
Carbonate as CaCO ₃	SM 2320B	23	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	
Conductivity @ 25C	SM 2510B	250	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0663	09/13/23 01:38	09/13/23	
Sulfate as SO ₄	EPA 300.0	8.3	1.0	mg/L	1	AGI0663	09/13/23	09/13/23	
Total Dissolved Solids	SM 2540C	190	5.0	mg/L	1	AGI1030	09/18/23	09/18/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	0.97	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Magnesium	EPA 200.7	0.15	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Sodium	EPA 200.7	56	1.0	mg/L	1	AGI0835	09/14/23	09/19/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-11RE1

Sampled By: Madison Looper

Sample Description: Diesel

Sample Date - Time: 09/12/2023 - 10:45

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	6.4	1.0	mg/L	1	AGI0754	09/13/23	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-12

Sample Date - Time: 09/12/2023 - 11:40

Sampled By: Madison Looper

Matrix: Water

Sample Description: Perry

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	330	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	1.7	0.23	mg/L	1	AGI0663	09/13/23 01:22	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-13

Sample Date - Time: 09/12/2023 - 11:30

Sampled By: Madison Looper

Matrix: Water

Sample Description: Barn Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	12	1.0	mg/L	1	AGI0663	09/13/23	09/13/23	
Conductivity @ 25C	SM 2510B	330	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0663	09/13/23 01:07	09/13/23	
Sulfate as SO4	EPA 300.0	29	1.0	mg/L	1	AGI0663	09/13/23	09/13/23	
Total Dissolved Solids	SM 2540C	220	5.0	mg/L	1	AGI1030	09/18/23	09/18/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	2.1	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Magnesium	EPA 200.7	ND	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Sodium	EPA 200.7	73	1.0	mg/L	1	AGI0835	09/14/23	09/19/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-13RE1

Sample Date - Time: 09/12/2023 - 11:30

Sampled By: Madison Looper

Matrix: Water

Sample Description: Barn Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	110	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	
Bicarbonate as CaCO ₃	SM 2320B	90	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	
Carbonate as CaCO ₃	SM 2320B	24	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGI1017	09/18/23	09/18/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-14

Sampled By: Madison Looper

Sample Description: Fargo Flush

Sample Date - Time: 09/12/2023 - 11:35

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	110	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Bicarbonate as CaCO ₃	SM 2320B	110	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Carbonate as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Chloride	EPA 300.0	36	1.0	mg/L	1	AGI0663	09/13/23	09/13/23	
Conductivity @ 25C	SM 2510B	570	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	7.1	0.23	mg/L	1	AGI0663	09/13/23 00:51	09/13/23	
Sulfate as SO ₄	EPA 300.0	78	1.0	mg/L	1	AGI0663	09/13/23	09/13/23	
Total Dissolved Solids	SM 2540C	270	5.0	mg/L	1	AGI1032	09/18/23	09/18/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	30	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Magnesium	EPA 200.7	7.6	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Sodium	EPA 200.7	63	1.0	mg/L	1	AGI0835	09/14/23	09/19/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-15

Sample Date - Time: 09/12/2023 - 11:18

Sampled By: Madison Looper

Matrix: Water

Sample Description: 7908 15th Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	120	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Bicarbonate as CaCO ₃	SM 2320B	91	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Carbonate as CaCO ₃	SM 2320B	25	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGI0940	09/16/23	09/16/23	
Chloride	EPA 300.0	14	1.0	mg/L	1	AGI0663	09/13/23	09/13/23	
Conductivity @ 25C	SM 2510B	360	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0663	09/13/23 00:04	09/13/23	
Sulfate as SO ₄	EPA 300.0	37	1.0	mg/L	1	AGI0663	09/13/23	09/13/23	
Total Dissolved Solids	SM 2540C	220	5.0	mg/L	1	AGI1032	09/18/23	09/18/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	2.3	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Magnesium	EPA 200.7	ND	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Sodium	EPA 200.7	76	1.0	mg/L	1	AGI0835	09/14/23	09/19/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-16

Sample Date - Time: 09/12/2023 - 11:05

Sampled By: Madison Looper

Matrix: Water

Sample Description: 7976 15th Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	120	3.0	mg/L	1	AGI0852	09/14/23	09/14/23	
Bicarbonate as CaCO ₃	SM 2320B	88	3.0	mg/L	1	AGI0852	09/14/23	09/14/23	
Carbonate as CaCO ₃	SM 2320B	28	3.0	mg/L	1	AGI0852	09/14/23	09/14/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGI0852	09/14/23	09/14/23	
Chloride	EPA 300.0	14	1.0	mg/L	1	AGI0662	09/13/23	09/13/23	
Conductivity @ 25C	SM 2510B	350	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0662	09/13/23 00:08	09/13/23	
Sulfate as SO ₄	EPA 300.0	37	1.0	mg/L	1	AGI0662	09/13/23	09/13/23	
Total Dissolved Solids	SM 2540C	230	5.0	mg/L	1	AGI1032	09/18/23	09/18/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	2.3	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Magnesium	EPA 200.7	ND	0.10	mg/L	1	AGI0835	09/14/23	09/19/23	
Sodium	EPA 200.7	78	1.0	mg/L	1	AGI0835	09/14/23	09/19/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-17

Sampled By: Madison Looper

Sample Description: Bridge

Sample Date - Time: 09/12/2023 - 10:20

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	290	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0662	09/13/23 00:23	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-18

Sample Date - Time: 09/12/2023 - 11:50

Sampled By: Madison Looper

Matrix: Water

Sample Description: Shop

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	690	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	3.1	0.23	mg/L	1	AGI0662	09/13/23 00:38	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-19

Sample Date - Time: 09/12/2023 - 11:58

Sampled By: Madison Looper

Matrix: Water

Sample Description: Comm

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	470	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	9.1	0.23	mg/L	1	AGI0662	09/13/23 00:53	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-20

Sample Date - Time: 09/12/2023 - 12:05

Sampled By: Madison Looper

Matrix: Water

Sample Description: NW

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	370	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	6.7	0.23	mg/L	1	AGI0662	09/13/23 01:38	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-21

Sample Date - Time: 09/12/2023 - 12:10

Sampled By: Madison Looper

Matrix: Water

Sample Description: Claudines

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	590	1.0	umhos/cm	1	AGI0864	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	8.5	0.23	mg/L	1	AGI0662	09/13/23 01:53	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-22

Sample Date - Time: 09/12/2023 - 11:00

Sampled By: Madison Looper

Matrix: Water

Sample Description: New Barn Domestic

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	220	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0662	09/13/23 02:08	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-23

Sample Date - Time: 09/12/2023 - 12:15

Sampled By: Madison Looper

Matrix: Water

Sample Description: Manuels

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	230	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	3.6	0.23	mg/L	1	AGI0662	09/13/23 02:23	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-24

Sample Date - Time: 09/12/2023 - 09:48

Sampled By: Madison Looper

Matrix: Water

Sample Description: W 17th

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	520	1.0	umhos/cm	1	AGI0852	09/14/23	09/14/23	
Nitrate as N	EPA 300.0	1.3	0.23	mg/L	1	AGI0662	09/13/23 02:38	09/13/23	



AGI1454

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGI1454-25

Sample Date - Time: 09/12/2023 - 10:22

Sampled By: Madison Looper

Matrix: Water

Sample Description: Canal Surface

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	18	1.0	umhos/cm	1	AGI0940	09/16/23	09/16/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGI0754	09/13/23 18:54	09/13/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGI0754	09/13/23 18:54	09/13/23	
Total Dissolved Solids	SM 2540C	17	5.0	mg/L	1	AGI1032	09/18/23	09/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGI1010	09/18/23	09/19/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 300.0 - Quality Control

Batch: AGI0662
Prepared: 9/12/2023
Prep Method: Method Specific Preparation
Analyst: GJA
Blank (AGI0662-BLK1)

Nitrate as N	ND	0.23	mg/L						09/12/23
Chloride	ND	1.0	mg/L						09/12/23
Sulfate as SO4	ND	1.0	mg/L						09/12/23

Blank Spike (AGI0662-BS1)

Nitrate as N	22	0.23	mg/L	23	ND	99	90-110		09/12/23
Chloride	99	1.0	mg/L	100	ND	99	90-110		09/12/23
Sulfate as SO4	99	1.0	mg/L	100	ND	99	90-110		09/12/23

Matrix Spike (AGI0662-MS1), Source: AGI1311-01

Nitrate as N	15	0.23	mg/L	11	3.7	103	80-120		09/12/23
Chloride	60	1.0	mg/L	50	9.4	102	80-120		09/12/23
Sulfate as SO4	51	1.0	mg/L	50	ND	100	80-120		09/12/23

Matrix Spike (AGI0662-MS2), Source: AGI1450-11

Nitrate as N	18	0.23	mg/L	11	5.9	103	80-120		09/12/23
Chloride	59	1.0	mg/L	50	8.6	102	80-120		09/12/23
Sulfate as SO4	75	1.0	mg/L	50	24	102	80-120		09/12/23

Matrix Spike Dup (AGI0662-MSD1), Source: AGI1311-01

Nitrate as N	15	0.23	mg/L	11	3.7	103	80-120	0	20	09/12/23
Chloride	60	1.0	mg/L	50	9.4	102	80-120	0	20	09/12/23
Sulfate as SO4	51	1.0	mg/L	50	ND	100	80-120	0	20	09/12/23

Matrix Spike Dup (AGI0662-MSD2), Source: AGI1450-11

Nitrate as N	17	0.23	mg/L	11	5.9	102	80-120	0	20	09/12/23
Chloride	59	1.0	mg/L	50	8.6	101	80-120	0	20	09/12/23
Sulfate as SO4	75	1.0	mg/L	50	24	102	80-120	0	20	09/12/23

EPA 300.0 - Quality Control

Batch: AGI0663
Prepared: 9/12/2023
Prep Method: Method Specific Preparation
Analyst: AAS
Blank (AGI0663-BLK1)

Nitrate as N	ND	0.23	mg/L						09/12/23
Chloride	ND	1.0	mg/L						09/12/23
Sulfate as SO4	ND	1.0	mg/L						09/12/23

Blank Spike (AGI0663-BS1)

Nitrate as N	23	0.23	mg/L	23	ND	102	90-110		09/12/23
Chloride	100	1.0	mg/L	100	ND	101	90-110		09/12/23
Sulfate as SO4	100	1.0	mg/L	100	ND	102	90-110		09/12/23

Matrix Spike (AGI0663-MS1), Source: AGI1454-15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGI1454 FINAL 09272023 1031



AGI1454

RB5 Surface

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 300.0 - Quality Control

Batch: AGI0663

Prepared: 9/13/2023

Prep Method: Method Specific Preparation

Analyst: AAS

Matrix Spike (AGI0663-MS1), Source: AGI1454-15

Nitrate as N	11	0.23	mg/L	11	ND	100	80-120		09/13/23
Chloride	65	1.0	mg/L	50	14	101	80-120		09/13/23
Sulfate as SO4	89	1.0	mg/L	50	37	103	80-120		09/13/23

Matrix Spike Dup (AGI0663-MSD1), Source: AGI1454-15

Nitrate as N	23	0.23	mg/L	23	ND	101	80-120	67	20	09/13/23	MS2.0
Chloride	110	1.0	mg/L	100	14	100	80-120	56	20	09/13/23	MS2.0
Sulfate as SO4	140	1.0	mg/L	100	37	102	80-120	44	20	09/13/23	MS2.0

EPA 300.0 - Quality Control

Batch: AGI0714

Prepared: 9/13/2023

Prep Method: Method Specific Preparation

Analyst: GJA

Blank (AGI0714-BLK1)

Nitrate as N	ND	0.23	mg/L						09/13/23
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Blank Spike (AGI0714-BS1)

Nitrate as N	23	0.23	mg/L	23	ND	101	90-110		09/13/23
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Matrix Spike (AGI0714-MS1), Source: AGI1454-04

Nitrate as N	16	0.23	mg/L	11	4.6	102	80-120		09/13/23
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Matrix Spike (AGI0714-MS2), Source: AGI1481-05

Nitrate as N	11	0.23	mg/L	11	ND	98	80-120		09/13/23
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Matrix Spike Dup (AGI0714-MSD1), Source: AGI1454-04

Nitrate as N	16	0.23	mg/L	11	4.6	102	80-120	0	20	09/13/23
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Matrix Spike Dup (AGI0714-MSD2), Source: AGI1481-05

Nitrate as N	11	0.23	mg/L	11	ND	98	80-120	0	20	09/13/23
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EPA 300.0 - Quality Control

Batch: AGI0754

Prepared: 9/13/2023

Prep Method: Method Specific Preparation

Analyst: AAS

Blank (AGI0754-BLK1)

Nitrate as N	ND	0.23	mg/L						09/13/23
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Chloride	ND	1.0	mg/L						09/13/23
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Nitrite as N	ND	0.050	mg/L						09/13/23
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Blank Spike (AGI0754-BS1)

Nitrate as N	23	0.23	mg/L	23	ND	101	90-110		09/13/23
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Chloride	100	1.0	mg/L	100	ND	101	90-110		09/13/23
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Nitrite as N	0.95	0.050	mg/L	1.0	ND	95	90-110		09/13/23
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AGI1454 FINAL 09272023 1031

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 300.0 - Quality Control

Batch: AGI0754 Prepared: 9/13/2023
Prep Method: Method Specific Preparation Analyst: AAS

Matrix Spike (AGI0754-MS1), Source: AGI1430-01

Nitrate as N	12	0.23	mg/L	11	1.2	100	80-120		09/13/23
Chloride	59	1.0	mg/L	50	8.9	99	80-120		09/13/23
Nitrite as N	0.41	0.050	mg/L	0.50	ND	83	80-120		09/13/23

Matrix Spike (AGI0754-MS2), Source: AGI1524-01

Nitrate as N	11	0.23	mg/L	11	0.23	99	80-120		09/13/23
Chloride	51	1.0	mg/L	50	ND	100	80-120		09/13/23
Nitrite as N	0.45	0.050	mg/L	0.50	ND	85	80-120		09/13/23

Matrix Spike Dup (AGI0754-MSD1), Source: AGI1430-01

Nitrate as N	13	0.23	mg/L	11	1.2	101	80-120	1	20	09/13/23
Chloride	59	1.0	mg/L	50	8.9	100	80-120	1	20	09/13/23
Nitrite as N	0.42	0.050	mg/L	0.50	ND	84	80-120	2	20	09/13/23

Matrix Spike Dup (AGI0754-MSD2), Source: AGI1524-01

Nitrate as N	12	0.23	mg/L	11	0.23	101	80-120	1	20	09/13/23
Chloride	51	1.0	mg/L	50	ND	101	80-120	1	20	09/13/23
Nitrite as N	0.48	0.050	mg/L	0.50	ND	90	80-120	5	20	09/13/23

EPA 351.2 - Quality Control

Batch: AGI1010 Prepared: 9/18/2023
Prep Method: Method Specific Preparation Analyst: PXC

Blank (AGI1010-BLK1)

Total Kjeldahl Nitrogen	ND	1.0	mg/L							09/19/23
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Blank Spike (AGI1010-BS1)

Total Kjeldahl Nitrogen	9.6	1.0	mg/L	10	ND	96	90-110			09/19/23
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Blank Spike Dup (AGI1010-BSD1)

Total Kjeldahl Nitrogen	9.6	1.0	mg/L	10	ND	96	90-110	0	10	09/19/23
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Matrix Spike (AGI1010-MS1), Source: AGI0745-03

Total Kjeldahl Nitrogen	9.8	1.0	mg/L	10	ND	91	90-110			09/19/23
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Matrix Spike (AGI1010-MS2), Source: AGI1654-01

Total Kjeldahl Nitrogen	33	5.0	mg/L	10	24	90	90-110			09/19/23
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Matrix Spike Dup (AGI1010-MSD1), Source: AGI0745-03

Total Kjeldahl Nitrogen	11	1.0	mg/L	10	ND	101	90-110	10	10	09/19/23
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Matrix Spike Dup (AGI1010-MSD2), Source: AGI1654-01

Total Kjeldahl Nitrogen	31	5.0	mg/L	10	24	74	90-110	5	10	09/19/23	MS1.0 Low
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AGI1454 FINAL 09272023 1031

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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SM 2320B - Quality Control

Batch: AGI0852 Prepared: 9/14/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank (AGI0852-BLK1)

Alkalinity as CaCO ₃	ND	3.0	mg/L							09/14/23
Bicarbonate as CaCO ₃	ND	3.0	mg/L							09/14/23
Carbonate as CaCO ₃	ND	3.0	mg/L							09/14/23
Hydroxide as CaCO ₃	ND	3.0	mg/L							09/14/23

Blank Spike (AGI0852-BS1)

Alkalinity as CaCO ₃	99	3.0	mg/L	100	ND	99	80-120			09/14/23
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Blank Spike Dup (AGI0852-BSD1)

Alkalinity as CaCO ₃	95	3.0	mg/L	100	ND	95	80-120	4	20	09/14/23
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Duplicate (AGI0852-DUP1), Source: AGI1611-04

Alkalinity as CaCO ₃	36	3.0	mg/L		40			8	10	09/14/23
Bicarbonate as CaCO ₃	36	3.0	mg/L		40			8	10	09/14/23
Carbonate as CaCO ₃	ND	3.0	mg/L		ND			10	09/14/23	
Hydroxide as CaCO ₃	ND	3.0	mg/L		ND			10	09/14/23	

SM 2320B - Quality Control

Batch: AGI0940 Prepared: 9/16/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank (AGI0940-BLK1)

Alkalinity as CaCO ₃	ND	3.0	mg/L							09/16/23
Bicarbonate as CaCO ₃	ND	3.0	mg/L							09/16/23
Carbonate as CaCO ₃	ND	3.0	mg/L							09/16/23
Hydroxide as CaCO ₃	ND	3.0	mg/L							09/16/23

Blank Spike (AGI0940-BS1)

Alkalinity as CaCO ₃	99	3.0	mg/L	100	ND	99	80-120			09/16/23
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Blank Spike Dup (AGI0940-BSD1)

Alkalinity as CaCO ₃	99	3.0	mg/L	100	ND	99	80-120	0	20	09/16/23
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Duplicate (AGI0940-DUP1), Source: SGI0287-01

Alkalinity as CaCO ₃	41	3.0	mg/L		44			8	10	09/16/23
Bicarbonate as CaCO ₃	41	3.0	mg/L		44			8	10	09/16/23
Carbonate as CaCO ₃	ND	3.0	mg/L		ND			10	09/16/23	
Hydroxide as CaCO ₃	ND	3.0	mg/L		ND			10	09/16/23	

SM 2320B - Quality Control

Batch: AGI1017 Prepared: 9/18/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank (AGI1017-BLK1)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGI1454 FINAL 09272023 1031

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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SM 2320B - Quality Control

Batch: AGI1017 Prepared: 9/18/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank (AGI1017-BLK1)

Alkalinity as CaCO ₃	ND	3.0	mg/L							09/18/23
Bicarbonate as CaCO ₃	ND	3.0	mg/L							09/18/23
Carbonate as CaCO ₃	ND	3.0	mg/L							09/18/23
Hydroxide as CaCO ₃	ND	3.0	mg/L							09/18/23

Blank Spike (AGI1017-BS1)

Alkalinity as CaCO ₃	100	3.0	mg/L	100	ND	103	80-120			09/18/23
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Blank Spike Dup (AGI1017-BSD1)

Alkalinity as CaCO ₃	120	3.0	mg/L	100	ND	118	80-120	14	20	09/18/23
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Duplicate (AGI1017-DUP1), Source: AGI1210-01

Alkalinity as CaCO ₃	58	3.0	mg/L		80			32	10	09/18/23	DP1.1
Bicarbonate as CaCO ₃	58	3.0	mg/L		80			32	10	09/18/23	DP1.1
Carbonate as CaCO ₃	ND	3.0	mg/L		ND			10	09/18/23		
Hydroxide as CaCO ₃	ND	3.0	mg/L		ND			10	09/18/23		

SM 2510B - Quality Control

Batch: AGI0852 Prepared: 9/14/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank Spike (AGI0852-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110			09/14/23
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Blank Spike Dup (AGI0852-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110	0	5	09/14/23
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Duplicate (AGI0852-DUP1), Source: AGI1611-04

Conductivity @ 25C	110	1.0	umhos/cm		110			2	5	09/14/23
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SM 2510B - Quality Control

Batch: AGI0864 Prepared: 9/15/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank Spike (AGI0864-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	102	90-110			09/15/23
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Blank Spike Dup (AGI0864-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	102	90-110	0	5	09/15/23
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Duplicate (AGI0864-DUP1), Source: AGI1454-11

Conductivity @ 25C	250	1.0	umhos/cm		250			0	5	09/15/23
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BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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SM 2510B - Quality Control

Batch: AGI0940 Prepared: 9/16/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank Spike (AGI0940-BS1)

Conductivity @ 25C	1500	1.0 umhos/cm	1400	ND	104	90-110			09/16/23
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Blank Spike Dup (AGI0940-BSD1)

Conductivity @ 25C	1500	1.0 umhos/cm	1400	ND	104	90-110	0	5	09/16/23
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Duplicate (AGI0940-DUP1), Source: SGI0287-01

Conductivity @ 25C	230	1.0 umhos/cm		230			1	5	09/16/23
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SM 2540C - Quality Control

Batch: AGI1030 Prepared: 9/18/2023
Prep Method: Method Specific Preparation Analyst: RRV

Blank (AGI1030-BLK1)

Total Dissolved Solids	ND	5.0 mg/L							09/18/23
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Blank Spike (AGI1030-BS1)

Total Dissolved Solids	1000	mg/L	1000		100	70-130			09/18/23
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Duplicate (AGI1030-DUP1), Source: AGI1189-01

Total Dissolved Solids	1300	5.0 mg/L		1300			2	10	09/18/23
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Duplicate (AGI1030-DUP2), Source: AGI1189-02

Total Dissolved Solids	1100	5.0 mg/L		1100			1	10	09/18/23
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SM 2540C - Quality Control

Batch: AGI1032 Prepared: 9/18/2023
Prep Method: Method Specific Preparation Analyst: RRV

Blank (AGI1032-BLK1)

Total Dissolved Solids	ND	5.0 mg/L							09/18/23
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Blank Spike (AGI1032-BS1)

Total Dissolved Solids	990	mg/L	1000		99	70-130			09/18/23
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Duplicate (AGI1032-DUP1), Source: AGI1482-01

Total Dissolved Solids	4900	5.0 mg/L		4900			1	10	09/18/23
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Duplicate (AGI1032-DUP2), Source: AGI1246-02

Total Dissolved Solids	570	5.0 mg/L		570			0	10	09/18/23
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BSK Associates Laboratory Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 200.7 - Quality Control
Batch: AGI0835
Prepared: 9/14/2023
Prep Method: EPA 200.2
Analyst: SAB
Blank (AGI0835-BLK2)

Calcium	ND	0.10	mg/L							09/19/23
Magnesium	ND	0.10	mg/L							09/19/23
Sodium	ND	1.0	mg/L							09/19/23

Blank Spike (AGI0835-BS2)

Calcium	4.7	0.10	mg/L	4.8	ND	98	85-115			09/19/23
Magnesium	5.3	0.10	mg/L	4.8	ND	111	85-115			09/19/23
Sodium	5.0	1.0	mg/L	4.8	ND	104	85-115			09/19/23

Blank Spike Dup (AGI0835-BSD2)

Calcium	4.7	0.10	mg/L	4.8	ND	99	85-115	0	20	09/19/23
Magnesium	5.1	0.10	mg/L	4.8	ND	106	85-115	5	20	09/19/23
Sodium	4.9	1.0	mg/L	4.8	ND	102	85-115	1	20	09/19/23

Matrix Spike (AGI0835-MS3), Source: AGI1430-01

Calcium	36	0.10	mg/L	4.8	32	89	70-130			09/19/23
Magnesium	14	0.10	mg/L	4.8	8.6	111	70-130			09/19/23
Sodium	31	1.0	mg/L	4.8	26	95	70-130			09/19/23

Matrix Spike (AGI0835-MS4), Source: AGI1439-03

Calcium	40	0.10	mg/L	4.8	36	92	70-130			09/19/23
Magnesium	17	0.10	mg/L	4.8	13	85	70-130			09/19/23
Sodium	43	1.0	mg/L	4.8	38	95	70-130			09/19/23

Matrix Spike Dup (AGI0835-MSD3), Source: AGI1430-01

Calcium	36	0.10	mg/L	4.8	32	88	70-130	0	20	09/19/23
Magnesium	14	0.10	mg/L	4.8	8.6	109	70-130	0	20	09/19/23
Sodium	30	1.0	mg/L	4.8	26	93	70-130	0	20	09/19/23

Matrix Spike Dup (AGI0835-MSD4), Source: AGI1439-03

Calcium	43	0.10	mg/L	4.8	36	145	70-130	6	20	09/19/23	MS1.0 High
Magnesium	17	0.10	mg/L	4.8	13	94	70-130	2	20	09/19/23	
Sodium	42	1.0	mg/L	4.8	38	83	70-130	1	20	09/19/23	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
 - Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
 - All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
 - Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
 - J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
 - (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
 - Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
 - Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
 - RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
 - Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
 - The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
 - (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
- Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%: Percent
NR: Non-Reportable

MDL: Method Detection Limit
RL: Reporting Limit: DL x Dilution
ND: None Detected below MRL/MDL
pCi/L: PicoCuries per Liter
RL Mult: RL Multiplier
MCL: Maximum Contaminant Limit
MDA95: Min. Detected Activity
MPN: Most Probable Number
CFU: Colony Forming Unit
Absent: Less than 1 CFU/100mLs
Present: 1 or more CFU/100mLs
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-022
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-022
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-23		



10

Sample Integrity

BSK Bottles: Yes No

Page 1 of 2

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Were correct containers and preservatives received for the tests requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	If samples were taken today, is there evidence that chilling has begun?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Was a sufficient amount of sample received?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Did all bottle labels agree with COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Do samples have a hold time < 72 hours?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> NA	Was PM notified of discrepancies? PM: _____ By/Time: _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Bottles Received <small>"—" means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)	Checks*	Passed?	1-10	11	12	13-14	17-24
	Bacti Na ₂ S ₂ O ₃	—	—					
	None (P) White Cap	—	—	1A	1A,1C	1A	1A,1C	1A
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO ₄ DW	Cl, pH > 8	P F					
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO ₄ WW	pH 9.3-9.7	P F					
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—		1B			
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	P F					
	NaOH (P) Green Cap	Cl, pH > 10	P F					
	NaOH + ZnAc (P)	pH > 9	P F					
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—					
	Ascorbic, EDTA, KH ₂ C ₈ O ₄ (AG) Pink Label 525	—	—					
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—					
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—					
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—					
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—					
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P F					
	NH ₄ Cl (AG) Purple Label 552	—	—					
	EDA (P) or (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2,BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	H ₃ PO ₄ (CG) Salmon Label	—	—					
	Trizma – EPA 537.1 Light Blue Label FB	---	---					
	Ammonia Acetate - EPA 533 Purple Label FB	--	--					
	Bottled Water	—	—					
	Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
	Clear Glass	—	—					
	OTHER:	—	—					

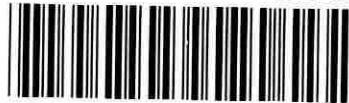
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check
	S P					pH Lot #	CI Lot #

Comments	*Preservation check completed by lab performing analysis.	<input checked="" type="checkbox"/> Indicates Blanks Received
		504 524.2 TTHM 537/533 TCP

MS/MSD Received Method: _____

Labeled by:	Labels Checked by:
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Sample Integrity

BSK Bottles: Yes No

Page 2 of 2

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA	
		Yes	No	NA		Yes	No	NA	
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes	No	NA	
	Did all bottles arrive unbroken and intact?	Yes	No	NA	Was a sufficient amount of sample received?	Yes	No	NA	
	Did all bottle labels agree with COC?	Yes	No	NA	Do samples have a hold time < 72 hours?	Yes	No	NA	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA	NA	Was PM notified of discrepancies? PM: <i>✓</i> By/Time:	Yes	No	NA	
Bottles Received <small>= means preservation/chlorine checks are either NA or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)	Checks*	Passed?	X 25					
	Bacti Na ₂ S ₂ O ₃	—	—						
	None (P) White Cap	—	—	IC					
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	P F						
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	P F						
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199 <u>***24 HOUR HOLD TIME***</u>	pH 9.0-9.5	P F						
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—						
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	P F	IA					
	NaOH (P) Green Cap	Cl, pH > 10	P F						
	NaOH + ZnAc (P)	pH > 9	P F						
	Dissolved Oxygen 300ml (g)	—	—						
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—						
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—						
	Ascorbic, EDTA, KH ₂ C ₂ O ₄ (AG) Pink Label 525	—	—						
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—						
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—						
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—						
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—						
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P F						
	NH ₄ Cl (AG) Purple Label 552	—	—						
EDA (P) or (AG) Brown Label DBPs	—	—							
HCl (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—							
Buffer pH 4 (CG)	—	—							
H ₃ PO ₄ (CG) Salmon Label	—	—							
Trizma - EPA 537.1 Light Blue Label FB	—	—							
Ammonia Acetate - EPA 533 Purple Label FB	—	—							
Bottled Water	—	—							
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—							
Clear Glass	—	—							
OTHER:	—	—							
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation pH Lot # <i>A904945</i> CI Lot #	Check		
	S P								
	S P								
Comments	*Preservation check completed by lab performing analysis.				<input checked="" type="checkbox"/> Indicates Blanks Received				
					504	524.2	TTHM	537/533	TCP
				<input checked="" type="checkbox"/> MS/MSD Received Method: _____					
Labeled by:		Labels Checked by:							

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1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

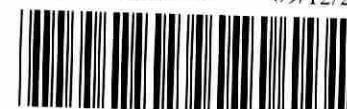
Turnaround Time Request

- Standard - 10 business days
 - Rush (Surcharge may apply)
- Date needed:

AGI454

conte9755

09/12/2023



10

*Required Fields		Temp: <i>30.4° H77</i>		Invoice To:		Phone:		Fax:	
Company/Cient Name*: Contente & Co		Report Attention*: Additional cc's: PO#:							
Address*: 7900 15th Ave		City*: Hanford		State*: Ca		Zip*: 93230			
Project:		Project #:		How would you like to receive your completed results?					
<input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____		<input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Other: _____		<input type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail		<input type="checkbox"/> EDT to California SWRCB (Drinking Water) System Number: _____		<input type="checkbox"/> Geotracker #: _____	
Reporting Options: <input type="checkbox"/> Sampler Name (Printed/Signature): <i>Madison Loper</i>									
Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid									
#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX				
		Date	Time						
1	17 th	<i>9-12-23</i>	<i>9:47 AM</i>						
2	Jacc 5hp	<i>10:00 AM</i>							
3	Jacc 50 hp	<i>10:02 AM</i>							
4	E Jacc	<i>10:10 AM</i>							
5	7900 16 th	<i>10:17 AM</i>							
6	7590 16 th	<i>10:28 AM</i>							
7	16 th	<i>10:30 AM</i>							
8	Horse Ranch	<i>10:32 AM</i>							
9	Fargo	<i>10:35 AM</i>							
10	15904 Fargo	<i>10:40 AM</i>							
11	Diesel	<i>10:45 AM</i>							
12	Perry	<i>11:40 AM</i>							
13	Barn	<i>11:30 AM</i>							
14	Fargo Flush	<i>11:35 AM</i>							
Relinquished by: (Signature and Printed Name) <i>Madison Loper</i>		Company JM Lord Inc		Date <i>9-12-23</i>	Time <i>155</i>	Received by: (Signature and Printed Name)		Company	
Relinquished by: (Signature and Printed Name) <i>Madison Loper</i>		Company		Date	Time	Received by: (Signature and Printed Name)		Company	
Received for Lab by: (Signature and Printed Name) <i>N. Hammontree</i>		Date <i>9-12-23</i>		Time <i>155</i>	Payment Received at Delivery:		Check / Cash		Init.
Shipping Method: <input checked="" type="checkbox"/> ONTRAC <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> WALK-IN <input type="checkbox"/> FED EX <input type="checkbox"/> Courier: _____				Date: <i>9-12-23</i>	Time: <i>155</i>	Amount: _____		PIA#: _____	
Cooling Method: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None						Custody Seal: <input checked="" type="checkbox"/> Y/N		Chilling Process Begun: <input checked="" type="checkbox"/> Y/N	

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf.

SR-FL-0012-07



1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request

- Standard - 10 business days
- Rush (Surcharge may apply)
- Date needed:

AGI1454 conte9755

09/12/2023



10

*Required Fields		Temp: <u>3040</u> ° <u>77</u>		Invoice To:	
Company/Client Name*: Contento & Co		Report Attention*: Additional cc's:		Phone*: Fax:	
Address*: 7900 15th Ave		City*: Hanford Ca State*: Ca Zip*: 93230		E-mail:	
Project:		Project #:		How would you like to receive your completed results?* <input type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail	
Reporting Options: <input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____		Regulatory Carbon Copies <input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Other:		Regulatory Compliance <input type="checkbox"/> EDT to California SWRCB (Drinking Water) System Number: _____ <input type="checkbox"/> Geotracker #: _____	
Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid					
#	Sample Description*	Sampled*		Comments / Station Code / WTRAX	
		Date	Time		
15	7908 15 th Domestic	9-12-23	11:48AM		✓
16	7976 15 th Domestic		11:05AM		✓
17	Bridge Shop		10:20 AM		✓
18	Comm		11:50AM		✓
19	NW		12:58AM		✓
20	Claudines		12:05AM		✓
21	New Barn		12:10 AM		✓
22	Manuels		11:00 AM		✓
23	W 17 th		12:15 AM		✓
24	Canal Surface		9:48 AM		✓
25			10:22 AM		✓
Signature: <u>John D. B. 9-12-23</u>					
Relinquished by: (Signature and Printed Name) <u>M. B. Morris</u> <u>Matthew Morris</u>		Company: JM Lord Inc Date: 9-12-23 Time: 1551 Received by: (Signature and Printed Name)		Company	
Relinquished by: (Signature and Printed Name)		Company		Received by: (Signature and Printed Name)	
Received for Lab by: (Signature and Printed Name) <u>R. Hamm</u> <u>R. Hamm</u>		Date: 9-12-23 Time: 1551 Payment Received at Delivery: Date: _____		Check / Cash Amount: 2 PIA#: PIA# Init. I	
Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: _____		Custody Seal: Y/N Chilling Process Begun: Y/N			
Cooling Method: Wet Blue None		Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf			

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SR-FL-0012-07

ATTACHMENT D

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

Instructions:

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

Operator Information:				
Name of Operator:	Jaqulin Conklin			
Name of Dairy Facility:	Content Co			
Facility Address:	7900 15 th Ave	Hanford	93230	
	Number and Street	City	Zip Code	
Contact Person Name and Phone Number:	Jaqulin Conklin	(559) 779-0526	Phone Number	
Name				
Manure/Process Wastewater Hauler Information:				
Name of Hauling Company/Person:				
Address of Hauling Company /Person:	Number and Street	City	Zip Code	
Contact Person:	Name	Phone Number		
Destination Information:				
Composting Facility / Broker / Farmer / Other (identify)	(please circle one)			
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
House Farms	14777 Excelsior Ave	Hanford	93230	
Name	Number and Street	City	Zip Code	Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				
14 th Ave South of Excelsior	Hanford	93230	Assessor's Parcel Number	
Number and Street	City	Zip Code		
Dates Hauled:	11-17-23			
Amount Hauled:				
Enter the amount of manure hauled in tons and the manure solids content. Indicate the method used to calculate the amount:				
Manure:	550	Tons		
Manure Solids Content:				
Method used to determine amount of manure:				

Attachment D
Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

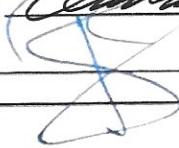
(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: 

Date: 11-17-23

Hauler's Signature: 

Date: 11-17-23

ATTACHMENT D**MANURE/PROCESS WASTEWATER TRACKING MANIFEST
FOR
EXISTING MILK COW DAIRIES****Instructions:**

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

Operator Information:

Name of Operator:			
Name of Dairy Facility:	CONTENTE & CO		
Facility Address:	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	Name	Phone Number	

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person:	Netto Ag Inc. / Frank Netto		
Address of Hauling Company / person:	10044 Flint Ave	Hanford CA	93230
Numer and Street	City	Zip Code	
Contact Person:	Frank Netto	559-585-2097	
Phone Number			

Destination Information:

Composting Facility / Broker / Farmer / Other (identify)	FARMER	(please circle one)	
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):			
FRED FONSECA	19330 FLINT AVE	LEMOORE	93245
Name	Number and Street	City	Zip Code
Phone			
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:			
FIELD: FARGO AVE			
Number and Street	City	Zip Code	Assessor's Parcel Number
Dates Hauled:	10/31, 11/1 & 11/2/23		

Amount Hauled:

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

Manure: 1,620 Tons or Cubic Yards (indicate which units used)
Manure Solids Content (if amount reported in tons):
Manure Density (if amount reported in cubic yards):

Attachment D

D-2

**Waste Discharge Requirements General order No. R-5-2007-0035
Existing Milk Cow Dairies**

Method used to determine amount of manure: _____
--

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____
--

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No, R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

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

Certification:

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

Operator's Signature:



Date: 11/2/23

Hauler's Signature:

Netto Ag Inc By:



Date: 11/2/2023