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: Mendes & Toste Dairy

Physical address of dairy:

23568 Fargo AVE	Lemoore	Kings	93245
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 01/01/1964

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0004-0150-0065-0000

B. OPERATORS

Mendes, Eddie

Operator name: Mendes, Eddie

Telephone no.: (559) 925-8048 (Landline) (Cellular)

6775 21st Ave	Lemoore	CA	93245
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Mendes, Eddie

Legal owner name: Mendes, Eddie

Telephone no.: (559) 925-8048 (Landline) (Cellular)

6775 21st Ave	Lemoore	CA	93245
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	25	0	0	0	0
Number under roof	325	0	0	0	0	0
Maximum number	325	25	0	0	0	0
Average number	325	25	0	0	0	0
Avg live weight (lbs)	1,200	1,300	0	0		

Predominant milk cow breed: Holstein

Average milk production: 65 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 8,495.07 *tons per reporting period*

Total nitrogen from manure: 111,067.53 *lbs per reporting period* After ammonia losses (30% loss applied): 77,747.27 *lbs per reporting period*

Total phosphorus from manure: 18,596.56 *lbs per reporting period*

Total potassium from manure: 61,172.87 *lbs per reporting period*

Total salt from manure: 158,775.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 23,925,000 *gallons*

Total nitrogen generated: 78,125.42 *lbs*

Total phosphorus generated: 6,780.71 *lbs*

Total potassium generated: 77,658.44 *lbs*

Total salt generated: 449,118.89 *lbs*

	23,925,000	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	23,925,000	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
R-1	Ground water
R-2	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 (%)
10/25/2023	Corral solids	1,500.00 *ton*	As-is	30.2		17,600.00	5,000.00	18,400.00		52.60

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	52,800.00	15,000.00	55,200.00	1,101,444.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	52,800.00	15,000.00	55,200.00	1,101,444.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Home East	20	20	2	process wastewater	X004-X150-X042-XXXX
Home West	16	16	2	process wastewater	X004-X150-X042-XXXX
MT Lease	70	70	2	process wastewater	X004-X220-X130-XXXX X004-X220-X132-XXXX
West 40	40	40	2	process wastewater	X004-X150-X019-XXXX
Totals for areas that were used for application	146	146	8		
Totals for areas that were not used for application					
Land application area totals	146	146	8		

B. CROPS AND HARVESTS

Home East

Field name: Home East

11/01/2022: Oats, hay

Crop: Oats, hay Acres planted: 20 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	101.00 *ton*	Dry-weight		15.1	21,000.00	2,300.00	17,500.00		8.33

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	0.00
Total actual harvest content	5.05	180.07	19.72	150.06	714.29

Home East

06/12/2023: Sorghum

Crop: Sorghum | Acres planted: 20 | Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	360.00 *ton*	Dry-weight		50.4	20,300.00	2,900.00	24,700.00		18.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	900.00	120.60	720.00	0.00
Total actual harvest content	18.00	362.48	51.78	441.04	3,303.36

Home West

Field name: Home West

11/01/2022: Oats, hay

Crop: Oats, hay | Acres planted: 16 | Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	85.00 *ton*	Dry-weight		14.9	22,100.00	2,400.00	18,600.00		8.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	0.00
Total actual harvest content	5.31	199.83	21.70	168.18	773.08

06/15/2023: Sorghum

Crop: Sorghum | Acres planted: 16 | Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	288.00 *ton*	Dry-weight		51.3	24,100.00	3,300.00	26,200.00		17.89

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	900.00	120.60	720.00	0.00
Total actual harvest content	18.00	422.52	57.86	459.34	3,136.47

MT Lease

Field name: MT Lease

11/01/2022: Oats, hay

Crop: Oats, hay Acres planted: 70 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	311.00 *ton*	Dry-weight		15.3	21,500.00	2,600.00	17,800.00		8.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	0.00
Total actual harvest content	4.44	161.81	19.57	133.97	658.54

06/15/2023: Sorghum

Crop: Sorghum Acres planted: 70 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	1,260.00 *ton*	Dry-weight		67.0	22,500.00	3,400.00	23,500.00		15.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	900.00	120.60	720.00	0.00
Total actual harvest content	18.00	267.30	40.39	279.18	1,877.04

West 40

Field name: West 40

11/01/2022: Oats, hay

Crop: Oats, hay Acres planted: 40 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	223.00 *ton*	Dry-weight		15.5	18,100.00	2,500.00	16,500.00		9.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	160.00	26.00	132.00	0.00
Total actual harvest content	5.58	170.53	23.55	155.46	848.90

West 40

06/15/2023: Sorghum

Crop: Sorghum Acres planted: 40 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	720.00 *ton*	Dry-weight		66.5	23,400.00	3,600.00	25,100.00		17.51

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	900.00	120.60	720.00	0.00
Total actual harvest content	18.00	282.20	43.42	302.71	2,111.71

NUTRIENT BUDGET

A. LAND APPLICATIONS

Home East - 11/01/2022: Oats, hay

Field name: Home East

Crop: Oats, hay Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	62.33	6.09	36.11	199.61	325,000.00 *gal*
Application event totals		62.33	6.09	36.11	199.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	62.33	6.09	36.11	199.61	325,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.32	2,260,000.00 *gal*
Application event totals		62.33	6.09	36.11	210.93	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	62.33	6.09	36.11	199.61	325,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.32	2,260,000.00 *gal*
Application event totals		62.33	6.09	36.11	210.93	

Home East - 06/12/2023: Sorghum

Field name: Home East

Crop: Sorghum Plant date: 06/12/2023

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

Home East - 06/12/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.33	3,660,000.00 *gal*
Application event totals		0.00	0.00	0.00	18.33	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	145.58	11.70	180.39	1,055.95	970,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	18.33	3,660,000.00 *gal*
Application event totals		145.58	11.70	180.39	1,074.27	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	145.58	11.70	180.39	1,055.95	970,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	18.33	3,660,000.00 *gal*
Application event totals		145.58	11.70	180.39	1,074.27	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	145.58	11.70	180.39	1,055.95	970,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	18.33	3,660,000.00 *gal*
Application event totals		145.58	11.70	180.39	1,074.27	

Home West - 11/01/2022: Oats, hay

Field name: Home West

Crop: Oats, hay Plant date: 11/01/2022

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

Home West - 11/01/2022: Oats, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/29/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	124.66	12.18	72.22	399.22	520,000.00 *gal*
Application event totals		124.66	12.18	72.22	399.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.39	1,660,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.39	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	124.66	12.18	72.22	399.22	520,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.39	1,660,000.00 *gal*
Application event totals		124.66	12.18	72.22	409.61	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.39	1,660,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.39	

Home West - 06/15/2023: Sorghum

Field name: Home West

Crop: Sorghum Plant date: 06/15/2023

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	16.65	2,660,000.00 *gal*
Application event totals		0.00	0.00	0.00	16.65	

Home West - 06/15/2023: Sorghum

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	144.46	11.61	178.99	1,047.78	770,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	16.65	2,660,000.00 *gal*
Application event totals		144.46	11.61	178.99	1,064.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	144.46	11.61	178.99	1,047.78	770,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	16.65	2,660,000.00 *gal*
Application event totals		144.46	11.61	178.99	1,064.43	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	144.46	11.61	178.99	1,047.78	770,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	16.65	2,660,000.00 *gal*
Application event totals		144.46	11.61	178.99	1,064.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	144.46	11.61	178.99	1,047.78	770,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	16.65	2,660,000.00 *gal*
Application event totals		144.46	11.61	178.99	1,064.43	

MT Lease - 11/01/2022: Oats, hay

Field name: MT Lease

Crop: Oats, hay Plant date: 11/01/2022

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

MT Lease - 11/01/2022: Oats, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	60.82	5.94	35.23	194.79	1,110,000.00 *gal*
Application event totals		60.82	5.94	35.23	194.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.66	6,054,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.66	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	60.82	5.94	35.23	194.79	1,110,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.66	6,054,000.00 *gal*
Application event totals		60.82	5.94	35.23	203.45	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	60.82	5.94	35.23	194.79	1,110,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.66	6,054,000.00 *gal*
Application event totals		60.82	5.94	35.23	203.45	

MT Lease - 06/15/2023: Sorghum

Field name: MT Lease

Crop: Sorghum Plant date: 06/15/2023

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

MT Lease - 06/15/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.40	10,064,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.40	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.04	5.55	85.55	500.76	1,610,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.40	10,064,000.00 *gal*
Application event totals		69.04	5.55	85.55	515.16	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.04	5.55	85.55	500.76	1,610,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.40	10,064,000.00 *gal*
Application event totals		69.04	5.55	85.55	515.16	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.04	5.55	85.55	500.76	1,610,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.40	10,064,000.00 *gal*
Application event totals		69.04	5.55	85.55	515.16	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.04	5.55	85.55	500.76	1,610,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.40	10,064,000.00 *gal*
Application event totals		69.04	5.55	85.55	515.16	

West 40 - 11/01/2022: Oats, hay

West 40 - 11/01/2022: Oats, hay

Field name: West 40

Crop: Oats, hay Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	106.44	10.40	61.66	340.88	1,110,000.00 *gal*
Application event totals		106.44	10.40	61.66	340.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	106.44	10.40	61.66	340.88	1,110,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.35	3,334,000.00 *gal*
Application event totals		106.44	10.40	61.66	349.22	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.35	3,334,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.35	

West 40 - 06/15/2023: Sorghum

Field name: West 40

Crop: Sorghum Plant date: 06/15/2023

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	20.86	8,334,000.00 *gal*
Application event totals		0.00	0.00	0.00	20.86	

West 40 - 06/15/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	98.31	7.90	121.81	713.04	1,310,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	20.86	8,334,000.00 *gal*
Application event totals		98.31	7.90	121.81	733.90	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	98.31	7.90	121.81	713.04	1,310,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	20.86	8,334,000.00 *gal*
Application event totals		98.31	7.90	121.81	733.90	

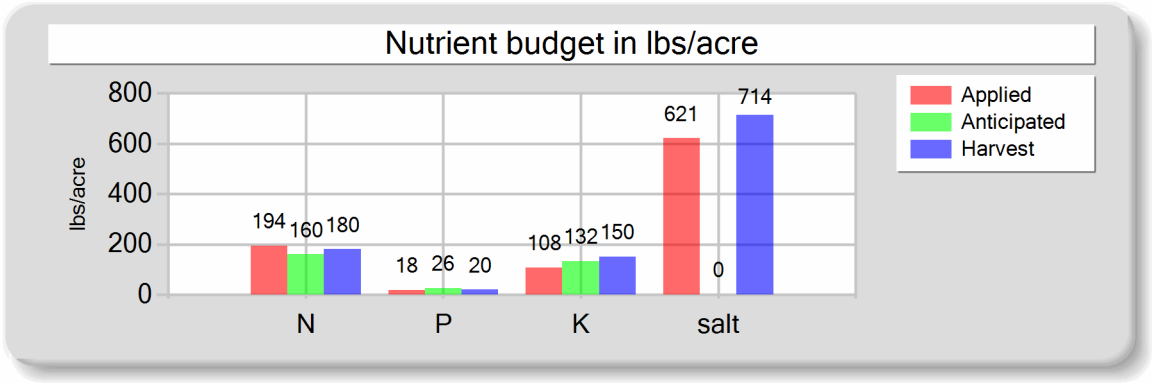
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	98.31	7.90	121.81	713.04	1,310,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	20.86	8,334,000.00 *gal*
Application event totals		98.31	7.90	121.81	733.90	

B. NUTRIENT BUDGET

Home East - 11/01/2022: Oats, hay

Field name: Home East Crop: Oats, hay Plant date: 11/01/2022



	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	186.99	18.27	108.32	598.84
Fresh water	0.00	0.00	0.00	22.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	193.99	18.27	108.32	621.47
Anticipated crop nutrient removal	160.00	26.00	132.00	0.00
Actual crop nutrient removal	180.07	19.72	150.06	714.29
Nutrient balance	13.92	-1.45	-41.74	-92.82
Applied to removed ratio	1.08	0.93	0.72	0.87

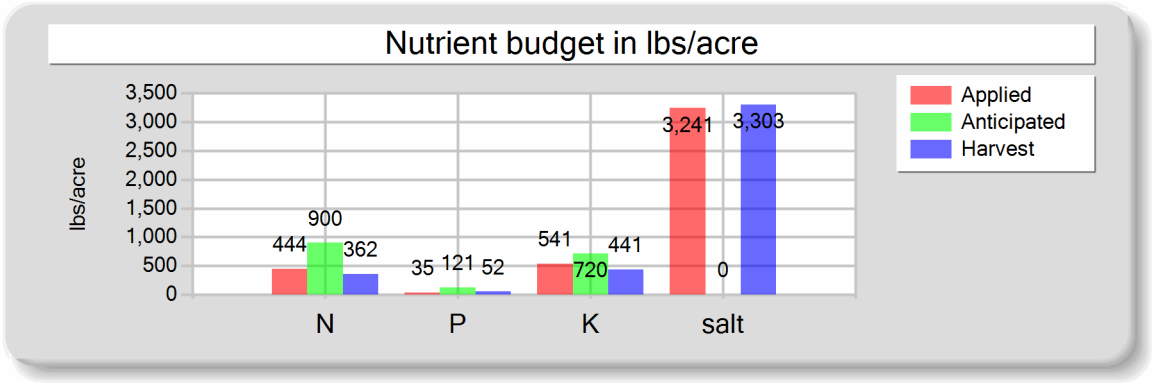
Fresh water applied	
4,520,000.00	*gallons*
166.46	*acre-inches*
8.32	*inches/acre*

Process wastewater applied	
975,000.00	*gallons*
35.91	*acre-inches*
1.80	*inches/acre*

Total harvests for the crop	
1	*harvests*

Home East - 06/12/2023: Sorghum

Field name: Home East Crop: Sorghum Plant date: 06/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	436.75	35.09	541.17	3,167.84
Fresh water	0.00	0.00	0.00	73.30
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	443.75	35.09	541.17	3,241.14
Anticipated crop nutrient removal	900.00	120.60	720.00	0.00
Actual crop nutrient removal	362.48	51.78	441.04	3,303.36
Nutrient balance	81.27	-16.69	100.12	-62.22
Applied to removed ratio	1.22	0.68	1.23	0.98

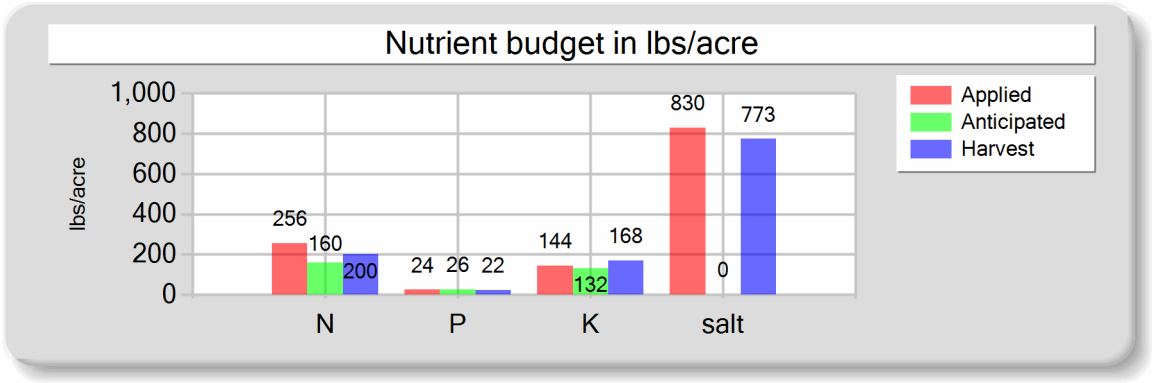
Fresh water applied	
14,640,000.00	*gallons*
539.14	*acre-inches*
26.96	*inches/acre*

Process wastewater applied	
2,910,000.00	*gallons*
107.17	*acre-inches*
5.36	*inches/acre*

Total harvests for the crop	
1	*harvests*

Home West - 11/01/2022: Oats, hay

Field name: Home West Crop: Oats, hay Plant date: 11/01/2022



	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	249.33	24.36	144.43	798.45
Fresh water	0.00	0.00	0.00	31.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.33	24.36	144.43	829.62
Anticipated crop nutrient removal	160.00	26.00	132.00	0.00
Actual crop nutrient removal	199.83	21.70	168.18	773.08
Nutrient balance	56.50	2.66	-23.75	56.54
Applied to removed ratio	1.28	1.12	0.86	1.07

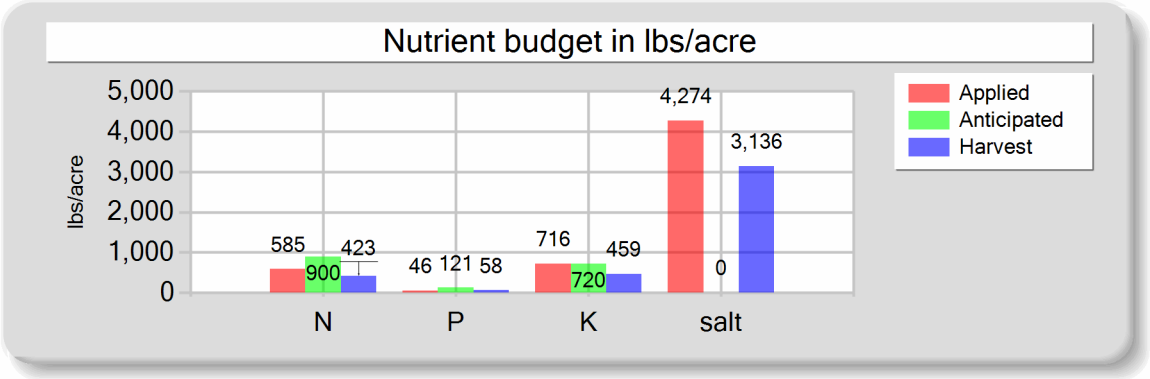
Fresh water applied	
4,980,000.00	*gallons*
183.40	*acre-inches*
11.46	*inches/acre*

Process wastewater applied	
1,040,000.00	*gallons*
38.30	*acre-inches*
2.39	*inches/acre*

Total harvests for the crop	
1	*harvests*

Home West - 06/15/2023: Sorghum

Field name: Home West Crop: Sorghum Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	577.83	46.43	715.98	4,191.13
Fresh water	0.00	0.00	0.00	83.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	584.83	46.43	715.98	4,274.37
Anticipated crop nutrient removal	900.00	120.60	720.00	0.00
Actual crop nutrient removal	422.52	57.86	459.34	3,136.47
Nutrient balance	162.31	-11.43	256.64	1,137.90
Applied to removed ratio	1.38	0.80	1.56	1.36

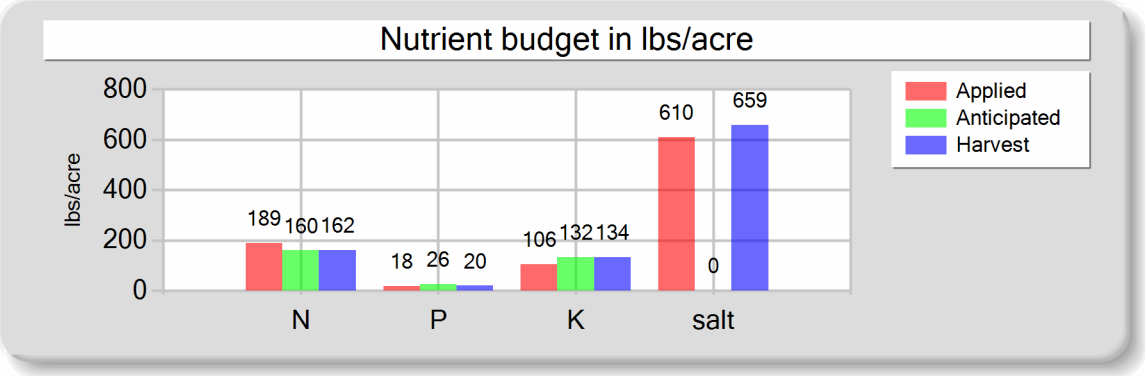
Fresh water applied	
13,300,000.00	*gallons*
489.79	*acre-inches*
30.61	*inches/acre*

Process wastewater applied	
3,080,000.00	*gallons*
113.43	*acre-inches*
7.09	*inches/acre*

Total harvests for the crop	
1	*harvests*

MT Lease - 11/01/2022: Oats, hay

Field name: MT Lease Crop: Oats, hay Plant date: 11/01/2022



	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	182.47	17.83	105.70	584.36
Fresh water	0.00	0.00	0.00	25.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	189.47	17.83	105.70	610.34
Anticipated crop nutrient removal	160.00	26.00	132.00	0.00
Actual crop nutrient removal	161.81	19.57	133.97	658.54
Nutrient balance	27.66	-1.74	-28.26	-48.20
Applied to removed ratio	1.17	0.91	0.79	0.93

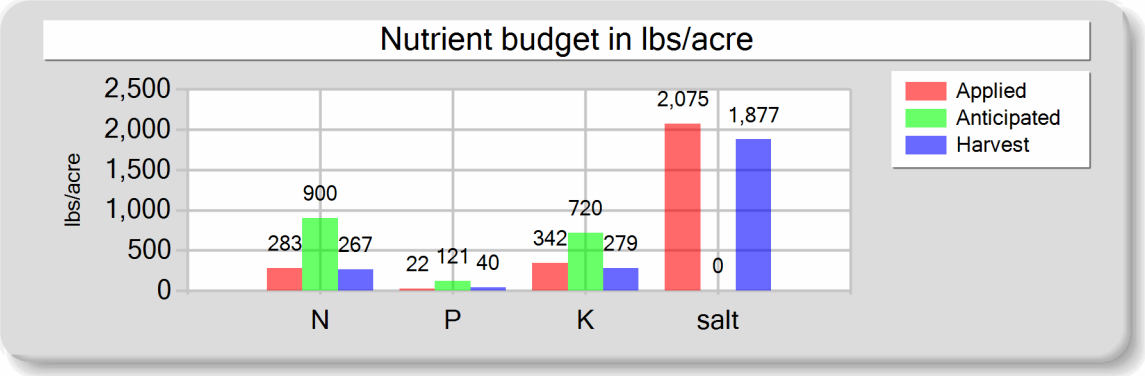
Fresh water applied	
18,162,000.00	*gallons*
668.84	*acre-inches*
9.55	*inches/acre*

Process wastewater applied	
3,330,000.00	*gallons*
122.63	*acre-inches*
1.75	*inches/acre*

Total harvests for the crop	
1	*harvests*

MT Lease - 06/15/2023: Sorghum

Field name: MT Lease Crop: Sorghum Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	276.16	22.19	342.18	2,003.03
Fresh water	0.00	0.00	0.00	71.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	283.16	22.19	342.18	2,075.02
Anticipated crop nutrient removal	900.00	120.60	720.00	0.00
Actual crop nutrient removal	267.30	40.39	279.18	1,877.04
Nutrient balance	15.86	-18.20	63.00	197.98
Applied to removed ratio	1.06	0.55	1.23	1.11

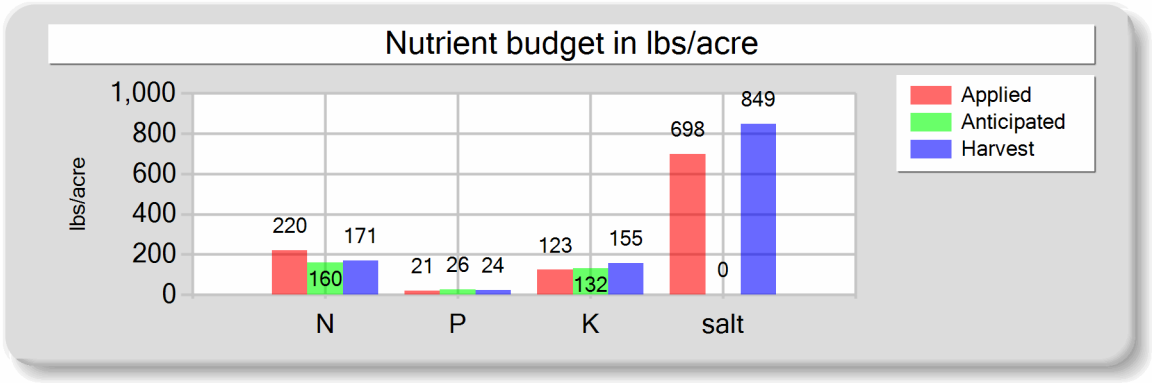
Fresh water applied	
50,320,000.00	*gallons*
1,853.11	*acre-inches*
26.47	*inches/acre*

Process wastewater applied	
6,440,000.00	*gallons*
237.16	*acre-inches*
3.39	*inches/acre*

Total harvests for the crop	
1	*harvests*

West 40 - 11/01/2022: Oats, hay

Field name: West 40 Crop: Oats, hay Plant date: 11/01/2022



	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	212.89	20.80	123.32	681.75
Fresh water	0.00	0.00	0.00	16.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	219.89	20.80	123.32	698.45
Anticipated crop nutrient removal	160.00	26.00	132.00	0.00
Actual crop nutrient removal	170.53	23.55	155.46	848.90
Nutrient balance	49.35	-2.75	-32.14	-150.45
Applied to removed ratio	1.29	0.88	0.79	0.82

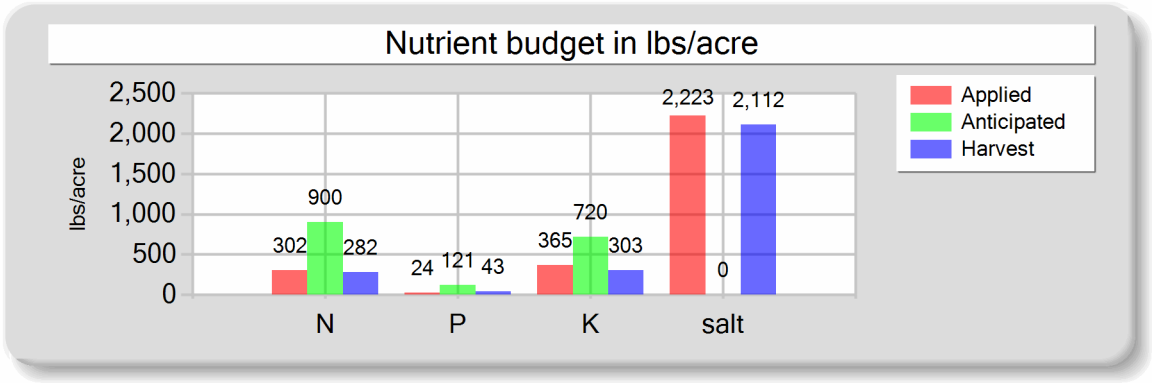
Fresh water applied	
6,668,000.00	*gallons*
245.56	*acre-inches*
6.14	*inches/acre*

Process wastewater applied	
2,220,000.00	*gallons*
81.76	*acre-inches*
2.04	*inches/acre*

Total harvests for the crop	
1	*harvests*

West 40 - 06/15/2023: Sorghum

Field name: West 40 Crop: Sorghum Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	294.92	23.70	365.43	2,139.11
Fresh water	0.00	0.00	0.00	83.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	301.92	23.70	365.43	2,222.57
Anticipated crop nutrient removal	900.00	120.60	720.00	0.00
Actual crop nutrient removal	282.20	43.42	302.71	2,111.71
Nutrient balance	19.71	-19.72	62.72	110.86
Applied to removed ratio	1.07	0.55	1.21	1.05

Fresh water applied	
33,336,000.00	*gallons*
1,227.65	*acre-inches*
30.69	*inches/acre*

Process wastewater applied	
3,930,000.00	*gallons*
144.73	*acre-inches*
3.62	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

Dry Manure

Sample and source description: Dry Manure

Sample date: 06/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 32.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	5,200.00	24,500.00	10,900.00	4,500.00	5,200.00	3,300.00	831.35		48.77
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

Dry Manure

Sample and source description: Dry Manure

Sample date: 10/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 30.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,600.00	5,000.00	18,400.00							52.60
DL	100.00	100.00	100.00							1.00

B. PROCESS WASTEWATER ANALYSES

1st Qtr WW

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 6.81

	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	459.65	72.51	0.00	0.00	44.91	266.27								2,300.00	1,472
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.42

	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	159.34	21.81	0.00	0.00	8.42	44.18	1.10	0.60	1.20	3.81	0.00	0.20	0.50	502.00	321
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.10	0.02	0.01	1.00	19

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 09/25/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 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	359.70	165.60	0.00	0.00	28.90	445.70								4,078.00	2,609
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 12/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.53

	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	354.60	202.90	0.00	0.00	70.90	356.20								3,966.00	2,538
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Canal

Canal

Canal

Sample description: Canal

Sample date: 08/17/2023 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										20.00	
DL	0.10										1.00	

R-1

R-1

Sample description: R-1

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										775.00	
DL	0.10										1.00	

R-2

R-2

Sample description: R-2

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										788.00	
DL	0.10										1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Home East - 11/01/2022: Oats, hay

Home East

Sample and source description: Home East

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

Moisture: 15.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,000.00	2,300.00	17,500.00		8.33
DL	100.00	100.00	100.00		1.00

Home East - 06/12/2023: Sorghum

Home East

Sample and source description: Home East

Sample date: 10/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,300.00	2,900.00	24,700.00		18.50
DL	100.00	100.00	100.00		1.00

Home West - 11/01/2022: Oats, hay

Home West - 11/01/2022: Oats, hay

Home West

Sample and source description: Home West

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

Moisture: 14.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,100.00	2,400.00	18,600.00		8.55
DL	100.00	100.00	100.00		1.00

Home West - 06/15/2023: Sorghum

Home West

Sample and source description: Home West

Sample date: 10/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,100.00	3,300.00	26,200.00		17.89
DL	100.00	100.00	100.00		1.00

MT Lease - 11/01/2022: Oats, hay

MT Lease

Sample and source description: MT Lease

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

Moisture: 15.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,500.00	2,600.00	17,800.00		8.75
DL	100.00	100.00	100.00		1.00

MT Lease - 06/15/2023: Sorghum

MT Lease

Sample and source description: MT Lease

Sample date: 10/16/2023 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	22,500.00	3,400.00	23,500.00		15.80
DL	100.00	100.00	100.00		1.00

West 40 - 11/01/2022: Oats, hay

West 40

Sample and source description: West 40

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

Moisture: 15.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	2,500.00	16,500.00		9.01
DL	100.00	100.00	100.00		1.00

West 40 - 06/15/2023: Sorghum

West 40

Sample and source description: West 40

Sample date: 10/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,400.00	3,600.00	25,100.00		17.51
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

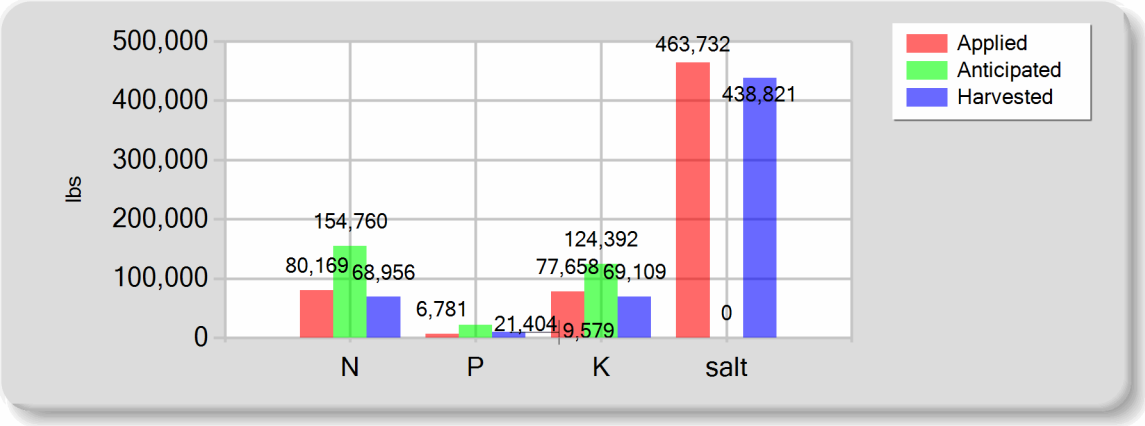
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

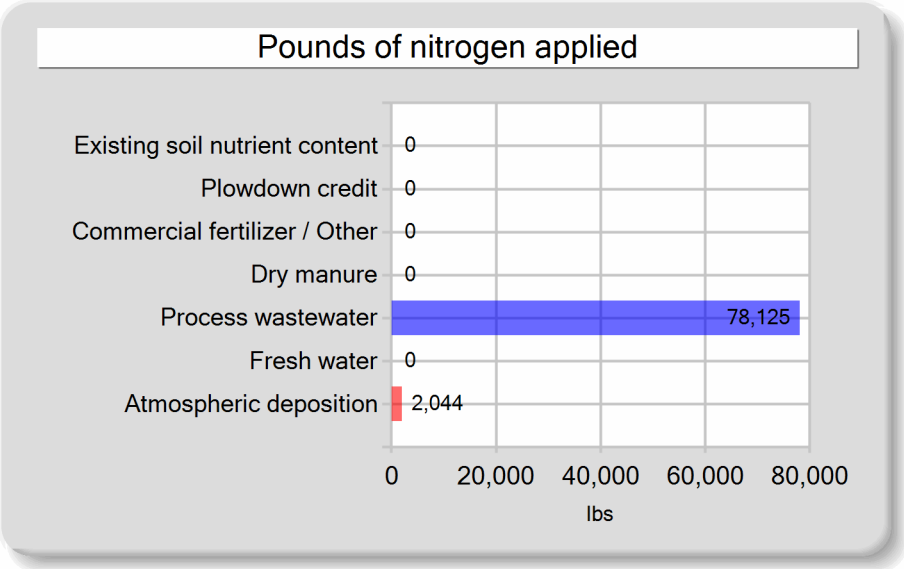
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

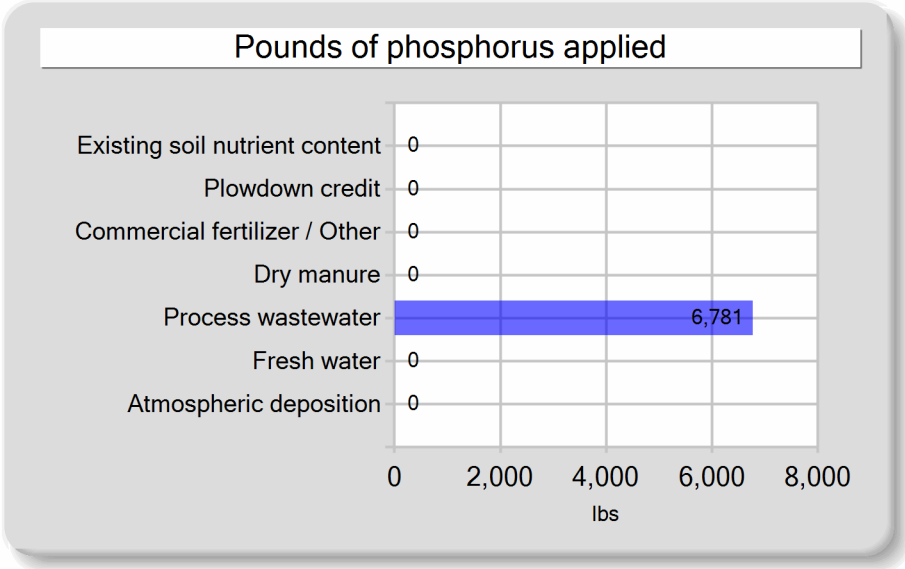
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	78,125.42	6,780.71	77,658.44	449,118.89
Fresh water	0.00	0.00	0.00	14,613.03
Atmospheric deposition	2,044.00	0.00	0.00	0.00
Total nutrients applied	80,169.42	6,780.71	77,658.44	463,731.92
Anticipated crop nutrient removal	154,760.00	21,403.60	124,392.00	0.00
Actual crop nutrient removal	68,955.98	9,579.01	69,109.20	438,820.87
Nutrient balance	11,213.45	-2,798.30	8,549.25	24,911.05
Applied to removed ratio	1.16	0.71	1.12	1.06

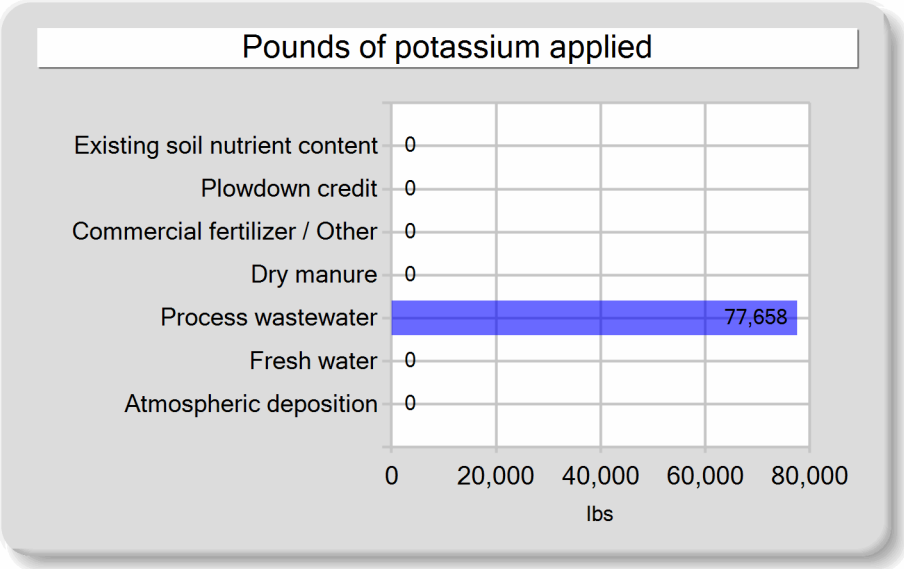
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

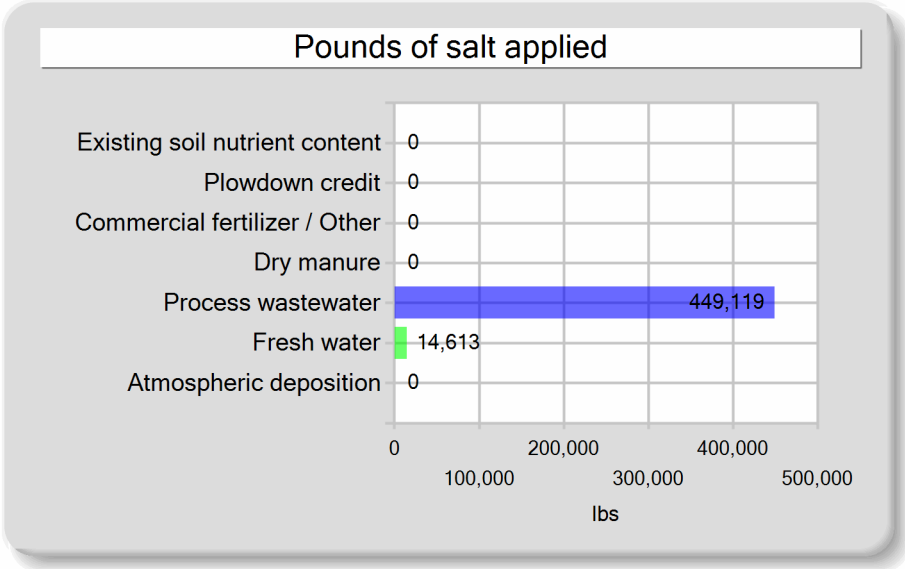


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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

ADDITIONAL NOTES

A. NOTES

HOME East- need APN number and acreage

All Wells were all negative for Ammonia which we tested onsite using a test strip .

We had an extremely wet year and had early flood release water and then Canal water thru the whole year so no wells were turned on .

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	SIGNATURE OF OPERATOR OF FACILITY
Eddie Mendes	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6/24/24	
DATE	DATE

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: Eddie Mendes

Name of Dairy Facility: Mendes & Toste Dairy

Facility Address:

23568 Fargo AVE	Lemoore	Kings	93245
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: Eddie Mendes (559) 906-8517
Name Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Thomas Bros Hauling

Address of Hauling Company/Person:

5810 23rd AVE	Hanford	CA	93230
Number and Street	City	State	Zip Code

Contact Person: Manuel Thomas (559) 906-1406
Name Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Stoneland (559) 945-2205
Name Phone Number

20877 Lacey BLVD	Hanford	CA	93230
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

	Hanford	93230
Address	City	Zip Code

Westside Kings
Street and nearest cross street (if no address) County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 10/25/2023

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 1,500.00 tons

Manure Solids Content: 69.8 %

Method used to determine amount of manure:

Weighted Average

CERTIFICATION

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

Operator Signature — Date: 6/24/24

Hauler Signature — Date: 6/24/24

DELLAVALLE™
LABORATORY INC

Mendes & Toste Dairy #1
15877 Grangeville Blvd
Hanford, CA 93230

Account# 00-0016295
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 08:25

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0586-01	R1	Ag Water	Christina		12/11/2023 13:10
23L0586-02	R2	Ag Water	Christina		12/11/2023 13:20

Default Cooler Temperature on Receipt °C: 21.1
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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LABORATORY INC

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15877 Grangeville Blvd
Hanford, CA 93230

Account# 00-0016295
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 08:25

Sample Results

Sample: R1
23L0586-01 (Water)

Sampled: 12/11/2023 13:10
Sampled By: Christina

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.77**	mmhos/cm	0.01	1		12/12/23 16:15	SM 2510 B		BEL0389
Electrical Conductivity umhos	**775**	umhos/cm	10.0	1		12/12/23 16:15	SM 2510 B		BEL0389
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/12/23 20:53	EPA 300.0		BEL0350

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Mendes & Toste Dairy #1
15877 Grangeville Blvd
Hanford, CA 93230

Account# 00-0016295
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 08:25

Sample Results
(Continued)

Sample: R2
23L0586-02 (Water)

Sampled: 12/11/2023 13:20
Sampled By: Christina

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.79**	mmhos/cm	0.01	1		12/12/23 16:16	SM 2510 B		BEL0389
Electrical Conductivity umhos	**788**	umhos/cm	10.0	1		12/12/23 16:16	SM 2510 B		BEL0389
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/12/23 21:14	EPA 300.0		BEL0350

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LABORATORY INC

Mendes & Toste Dairy #1
15877 Grangeville Blvd
Hanford, CA 93230

Account# 00-0016295
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 08:25

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0350										
Blank (BEL0350-BLK1)					Prepared & Analyzed: 12/12/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0350-BLK2)					Prepared & Analyzed: 12/12/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0350-BLK3)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0350-BLK4)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0350-BLK5)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0350-BS1)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.6		0.1	mg/L	5.000		92.8	90-110		
LCS (BEL0350-BS2)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	5.4		0.1	mg/L	5.000		107	90-110		
LCS (BEL0350-BS3)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000		94.3	90-110		
LCS (BEL0350-BS4)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.6		0.1	mg/L	5.000		92.7	90-110		
Duplicate (BEL0350-DUP1)		**Source: 23L0592-01**			Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	0.08		0.1	mg/L		0.08			0.00	10
Duplicate (BEL0350-DUP2)		**Source: 23L0594-01**			Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	0.09		0.1	mg/L		0.09			5.65	10
Duplicate (BEL0350-DUP3)		**Source: 23L0724-01**			Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	0.6		0.1	mg/L		0.6			1.23	10
Duplicate (BEL0350-DUP4)		**Source: 23L0731-01**			Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	0.2		0.1	mg/L		0.2			0.466	10
Matrix Spike (BEL0350-MS1)		**Source: 23L0592-01**			Prepared & Analyzed: 12/12/2023					
Nitrate Nitrogen as NO3N	4.6		0.1	mg/L	5.000	0.08	90.7	90-110		
Matrix Spike (BEL0350-MS2)		**Source: 23L0594-01**			Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000	0.09	91.7	90-110		

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LABORATORY INC

Mendes & Toste Dairy #1
15877 Grangeville Blvd
Hanford, CA 93230

Account# 00-0016295
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 08:25

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0350 (Continued)										
Matrix Spike (BEL0350-MS4)	**Source: 23L0731-01**				Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000	0.2	93.7	90-110		
Reference (BEL0350-SRM1)					Prepared & Analyzed: 12/12/2023					
Nitrate Nitrogen as NO3N	9.2			mg/L	10.00		92.0	90-110		
Reference (BEL0350-SRM2)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	9.3			mg/L	10.00		92.6	90-110		
Reference (BEL0350-SRM3)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	9.3			mg/L	10.00		92.7	90-110		
Reference (BEL0350-SRM4)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	9.4			mg/L	10.00		93.6	90-110		
Reference (BEL0350-SRM5)					Prepared: 12/12/2023 Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	9.2			mg/L	10.00		92.2	90-110		

DELLAVALLE™
LABORATORY INC

Mendes & Toste Dairy #1
15877 Grangeville Blvd
Hanford, CA 93230

Account# 00-0016295
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 08:25

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0389										
Blank (BEL0389-BLK1)					Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0389-BLK2)					Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0389-BLK3)					Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEL0389-DUP1)		**Source: 23L0597-03**			Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	6.61		0.01	mmhos/cm		6.45			2.40	10
Electrical Conductivity umhos	6610		10.0	umhos/cm		6450			2.40	10
Duplicate (BEL0389-DUP2)		**Source: 23L0607-03**			Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	5.81		0.01	mmhos/cm		5.88			1.25	10
Electrical Conductivity umhos	5810		10.0	umhos/cm		5880			1.25	10
Reference (BEL0389-SRM1)					Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	445			umhos/cm	426.0		104	90-110		
Reference (BEL0389-SRM3)					Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEL0389-SRM4)					Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEL0389-SRM5)					Prepared & Analyzed: 12/12/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		

12/12/23 07:40 23L0586

WATER WORK REQUEST

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 800 228-9896 • Fax 559 268-8174

Bill To: Acct No. 16295 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client: Mendes & Toste Dairy #1
Address: 6775 21st Ave
City, State, Zip: Lemoore, CA 93245
Email: Mendesandtostedairy@gmail.com

Copy to: mel_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility: _____

Date sampled: 12/11/23

Sampled by: Christina

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

No. of Samples: 2 No. Bottles: 2

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____

Analysis and Bottles Required: *(Please Indicate Analysis)*

☑ EC, NO_3-N
(1) 1 L plastic, unpreserved (white)

☐ DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test)**
(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

DESCRIPTION OF SA		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. R1	Temperature Upon Receipt Hanford (°C): 21.1 Laboratory (°C): -1.5	12/11/23	1:10pm		21.1 -1.5
2. R2	Temperature Upon Receipt Hanford (°C): 21.0 Laboratory (°C): -1.1	J	1:20pm		21.6 -1.1
3.					
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				

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

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				12/11/23 3:30pm
Second		DLL	12/11/23 3:30pm	
Third				
Fourth		DLL	12/12 0744	

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

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

Invoicing Information:
Medeiros Pricing 2023
Sampling Hrs ____ Miles ____ Consulting ____

Shipping
$ _____ In
$ _____ Out

Amt Paid ____ Rec By ____ Check No. ____ Date ____

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

ctt:update 2020

12/12/23 07:40 23L0586

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1								
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

DELLAVALLE™
LABORATORY INC

Georgenson Dairy
6775 21st Ave
Lemoore, CA 93245

Account# 00-0025810
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/21/2023 15:07

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1603-01	Canal	Ag Water			08/16/2023 15:30

Default Cooler Temperature on Receipt °C: 0.4
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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LABORATORY INC

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Account# 00-0025810
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Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/21/2023 15:07

Sample Results

Sample: Canal
23H1603-01 (Water)

Sampled: 8/16/2023 15:30
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.02**	mmhos/cm	0.01	1		08/18/23 17:54	SM 2510 B		BEH0919
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 12:49	EPA 300.0		BEH0887

DELLAVALLE™
LABORATORY INC

Georgenson Dairy
6775 21st Ave
Lemoore, CA 93245

Account# 00-0025810
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/21/2023 15:07

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0887										
Blank (BEH0887-BLK1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0887-BLK2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH0887-BS1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEH0887-DUP1)		**Source: 23H1614-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	0.7		0.1	mg/L		0.7			0.151	10
Matrix Spike (BEH0887-MS1)		**Source: 23H1614-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	6.0		0.1	mg/L	5.000	0.7	106	90-110		
Reference (BEH0887-SRM1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEH0887-SRM2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		

DELLAVALLE™
LABORATORY INC

Georgenson Dairy
6775 21st Ave
Lemoore, CA 93245

Account# 00-0025810
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/21/2023 15:07

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0919										
Blank (BEH0919-BLK1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Blank (BEH0919-BLK2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Blank (BEH0919-BLK3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Duplicate (BEH0919-DUP1)		**Source: 23H1632-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	0.02		0.01	mmhos/cm		0.02			6.30	10
Duplicate (BEH0919-DUP2)		**Source: 23H1667-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	0.47		0.01	mmhos/cm		0.47			0.466	10
Reference (BEH0919-SRM1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	517			umhos/cm	538.0		96.1	90-110		
Reference (BEH0919-SRM3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	981			umhos/cm	1000		98.1	90-110		
Reference (BEH0919-SRM4)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	990			umhos/cm	1000		99.0	90-110		
Reference (BEH0919-SRM5)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	994			umhos/cm	1000		99.4	90-110		

08/17/23 08:34 23H1603

AM

WATER WORK REQUEST

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6126 • 800 228-9896 • Fax 559 268-8174

Acct No. / Cons.
Bill To: 25810 / 8

No. of Samples 1 No. Bottles 1

Purchase Order No. ____ Results Needed By ____

Water Type:
- [x] Ag Water
- [ ] Supply Water
- [ ] Drinking
- [ ] Ground Water
- [ ] Other ____
- [ ] Wastewater
- [ ] Mon. Well

Client: **Georgenson Dairy**
Address: 6775 21st Ave
City, State, Zip: Lemoore, CA 93245
Email: Mendesandtostedairy@gmail.com

Copy to: mel_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility: ____

Date sampled ____

Sampled by ____

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

Analysis and Bottles Required: *(Please Indicate Analysis)*

- [x] EC, NO_3-N
  (1) 1 L plastic, unpreserved (white)
- [ ] DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
  (1) 1 L plastic, unpreserved (white)
- [ ] DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
  (1) 1 L plastic, unpreserved (white)
- [ ] DCW1: (EC, NO_3-N, TDS)
  (1) 1 L plastic, unpreserved (white)
- [ ] DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
  (1) 1 L plastic, unpreserved (white)
- [ ] DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
  (1) 1 L plastic, unpreserved (white)
- [ ] Other ____

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. (GWN)	Sampled From:	8/16/23	3:30pm		0.4
2.	Sampled From:				
3.	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

CHAIN OF CUSTODY

	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		Med Enviro		8/16/23 4:35pm
Second		DLI	8/16/23 4:35pm	8/16/23
Third	MM	DLI	8/17/23 8:34	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.
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Invoicing Information:
Medeiros Pricing 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____

Shipping
$ ____ In
$ ____ Out
Date ____

Signature ____

Sample received in cooler with ice?
[ ] Yes [ ] No

ctt:update 2020

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

08/17/23 08:34 23H1603

AW

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

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

Container: Ice Chest ✓ Box □ None □ | **Refrigerant:** Wet Ice ✓ Blue Ice □ None □

Samples Preserved with HNO_3 or H_2SO_4 were: □ Received Preserved □ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number									
		1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1									
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										