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: Golden Star Dairy

Physical address of dairy:

4109 E Conejo AVE	Selma	Fresno	93662
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 06/05/1932

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0385-0140-0002-0000

B. OPERATORS

Espinloa, Frank

Operator name: Espinloa, Frank

Telephone no.: (559) 380-8249 (Landline) (Cellular)

Po Box 747	Caruthers	CA	93609
Mailing Address Number and Street	City	State	Zip Code

C. OWNERS

Crichley, Scott

Legal owner name: Crichley, Scott

Telephone no.: (559) 903-0406 (Landline) (Cellular)

4109 E Conejo AVE	SELMA	CA	93662
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

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	50	100	100	100	0
Number under roof	600	0	0	0	0	0
Maximum number	600	50	100	100	100	0
Average number	600	50	100	100	100	0
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

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

B. MANURE GENERATED

Total manure excreted by the herd: 18,108.84 *tons per reporting period*

Total nitrogen from manure: 229,839.68 *lbs per reporting period* After ammonia losses (30% loss applied): 160,887.78 *lbs per reporting period*

Total phosphorus from manure: 37,998.12 *lbs per reporting period*

Total potassium from manure: 112,934.54 *lbs per reporting period*

Total salt from manure: 294,007.50 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 11,475,000 *gallons*

Total nitrogen generated: 50,705.00 *lbs*

Total phosphorus generated: 6,046.44 *lbs*

Total potassium generated: 32,287.75 *lbs*

Total salt generated: 238,349.47 *lbs*

	11,475,000	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	11,475,000	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Barn	Ground water
Canal	Surface water
Dom	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	2,500.00 *ton*	As-is	30.4		14,100.00	5,200.00	17,300.00		54.60

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	70,500.00	26,000.00	86,500.00	1,900,080.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	70,500.00	26,000.00	86,500.00	1,900,080.00

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
401	20	20	2	process wastewater	X385-X140-X002-XXXX
402	40	39	0	none	X385-X140-X21S-XXXX
403	50	46	2	process wastewater	X385-X170-X033-XXXX
403A	32	29	0	none	X385-X170-X033-XXXX
404	4	4	0	none	X385-X200-X020-XXXX
405	20	17	0	none	X385-X081-X34S-XXXX
406	60	58	0	none	X385-X140-X21S-XXXX
407	80	75	0	none	X385-X110-X07S-XXXX
408	8	7	0	none	X385-X110-X005-XXXX
Totals for areas that were used for application	70	66	4		
Totals for areas that were not used for application	244	229	0		
Land application area totals	314	295	4		

B. CROPS AND HARVESTS

401

Field name: 401

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage 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 (%)
05/11/2023	323.10 *ton*	Dry-weight		57.7	15,400.00	4,500.00	32,500.00		12.64

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.16	210.47	61.50	444.18	1,727.53

401

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	572.50 *ton*	Dry-weight		68.8	14,400.00	3,100.00	18,300.00		6.09

	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	28.63	257.21	55.37	326.87	1,087.80

403

Field name: 403

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 46 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 (%)
05/11/2023	756.20 *ton*	Dry-weight		59.9	30,200.00	5,200.00	35,400.00		12.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.44	398.16	68.56	466.72	1,599.24

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 46 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,305.80 *ton*	Dry-weight		67.5	14,700.00	2,500.00	15,900.00		5.34

	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	28.39	271.24	46.13	293.38	985.31

NUTRIENT BUDGET

A. LAND APPLICATIONS

401 - 11/01/2022: Wheat, silage, boot stage

Field name: 401

Crop: Wheat, silage, boot stage 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	129.39	9.94	61.15	390.48	425,000.00 *gal*
Application event totals		129.39	9.94	61.15	390.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.13	2,024,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.13	

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
WW	Process wastewater	129.39	9.94	61.15	390.48	425,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.13	2,024,000.00 *gal*
Application event totals		129.39	9.94	61.15	400.62	

401 - 06/01/2023: Corn, silage

Field name: 401

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		0.00	0.00	0.00	15.14	

401 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		0.00	0.00	0.00	15.14	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	101.55	17.76	86.53	701.50	625,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		101.55	17.76	86.53	716.64	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		0.00	0.00	0.00	15.14	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	101.55	17.76	86.53	701.50	625,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		101.55	17.76	86.53	716.64	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		0.00	0.00	0.00	15.14	

401 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	101.55	17.76	86.53	701.50	625,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		101.55	17.76	86.53	716.64	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.14	3,024,000.00 *gal*
Application event totals		0.00	0.00	0.00	15.14	

403 - 11/01/2022: Wheat, silage, boot stage

Field name: 403

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/27/2022	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	109.21	8.39	51.61	329.56	825,000.00 *gal*
Application event totals		109.21	8.39	51.61	329.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	201.86	15.51	95.41	609.19	1,525,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.44	4,336,000.00 *gal*
Application event totals		201.86	15.51	95.41	618.63	

403 - 11/01/2022: Wheat, silage, boot stage

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	201.86	15.51	95.41	609.19	1,525,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.44	4,336,000.00 *gal*
Application event totals		201.86	15.51	95.41	618.63	

403 - 06/01/2023: Corn, silage

Field name: 403

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.62	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	114.79	20.08	97.81	793.00	1,625,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		114.79	20.08	97.81	804.62	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.62	

403 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	114.79	20.08	97.81	793.00	1,625,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		114.79	20.08	97.81	804.62	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.62	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	114.79	20.08	97.81	793.00	1,625,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		114.79	20.08	97.81	804.62	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.62	

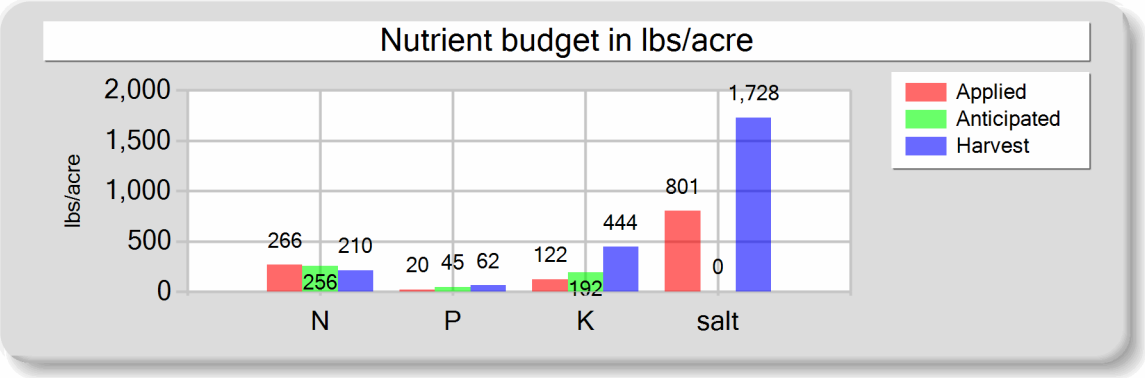
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.62	5,336,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.62	

B. NUTRIENT BUDGET

401 - 11/01/2022: Wheat, silage, boot stage

Field name: 401 Crop: Wheat, silage, boot stage 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	258.78	19.88	122.31	780.97
Fresh water	0.00	0.00	0.00	20.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	265.78	19.88	122.31	801.24
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	210.47	61.50	444.18	1,727.53
Nutrient balance	55.31	-41.62	-321.87	-926.29
Applied to removed ratio	1.26	0.32	0.28	0.46

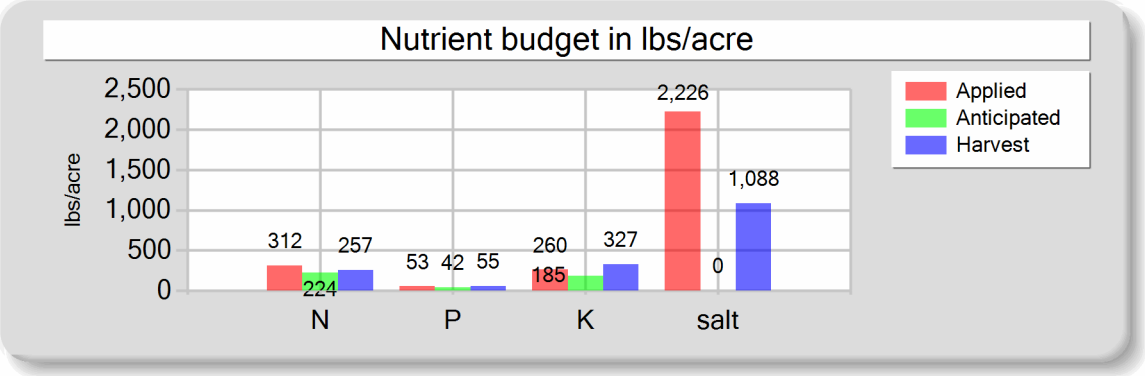
Fresh water applied	
4,048,000.00	*gallons*
149.07	*acre-inches*
7.45	*inches/acre*

Process wastewater applied	
850,000.00	*gallons*
31.30	*acre-inches*
1.57	*inches/acre*

Total harvests for the crop	
1	*harvests*

401 - 06/01/2023: Corn, silage

Field name: 401 Crop: Corn, silage Plant date: 06/01/2023



	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	304.64	53.28	259.58	2,104.50
Fresh water	0.00	0.00	0.00	121.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	311.64	53.28	259.58	2,225.63
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	257.21	55.37	326.87	1,087.80
Nutrient balance	54.43	-2.09	-67.29	1,137.84
Applied to removed ratio	1.21	0.96	0.79	2.05

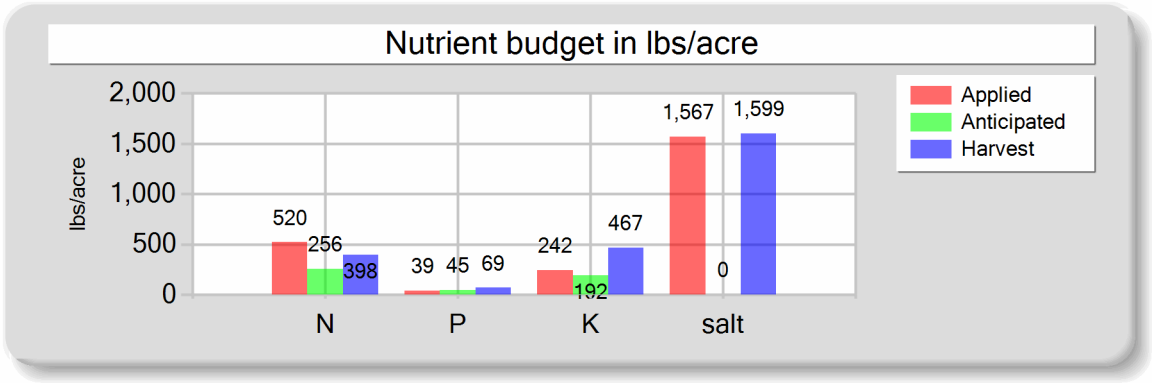
Fresh water applied	
24,192,000.00	*gallons*
890.91	*acre-inches*
44.55	*inches/acre*

Process wastewater applied	
1,875,000.00	*gallons*
69.05	*acre-inches*
3.45	*inches/acre*

Total harvests for the crop	
1	*harvests*

403 - 11/01/2022: Wheat, silage, boot stage

Field name: 403 Crop: Wheat, silage, boot stage 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	512.93	39.41	242.43	1,547.95
Fresh water	0.00	0.00	0.00	18.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	519.93	39.41	242.43	1,566.83
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	398.16	68.56	466.72	1,599.24
Nutrient balance	121.77	-29.15	-224.29	-32.41
Applied to removed ratio	1.31	0.57	0.52	0.98

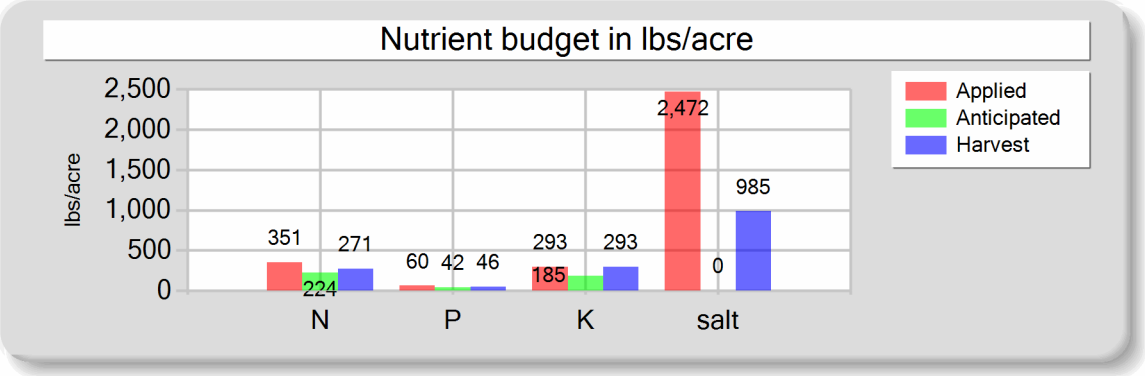
Fresh water applied	
8,672,000.00	*gallons*
319.36	*acre-inches*
6.94	*inches/acre*

Process wastewater applied	
3,875,000.00	*gallons*
142.70	*acre-inches*
3.10	*inches/acre*

Total harvests for the crop	
1	*harvests*

403 - 06/01/2023: Corn, silage

Field name: 403 Crop: Corn, silage Plant date: 06/01/2023



	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	344.38	60.23	293.44	2,379.01
Fresh water	0.00	0.00	0.00	92.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.38	60.23	293.44	2,471.94
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	271.24	46.13	293.38	985.31
Nutrient balance	80.14	14.10	0.06	1,486.62
Applied to removed ratio	1.30	1.31	1.00	2.51

Fresh water applied	
42,688,000.00	*gallons*
1,572.05	*acre-inches*
34.18	*inches/acre*

Process wastewater applied	
4,875,000.00	*gallons*
179.53	*acre-inches*
3.90	*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: 17.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	6,000.00	21,100.00	14,200.00	8,300.00	7,200.00	4,400.00	1,095.20		67.80
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: 30.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,100.00	5,200.00	17,300.00							54.60
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: 7.69

	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	729.66	109.21	0.00	0.00	56.06	344.86								3,440.00	2,202
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: 7.66

	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	389.40	148.20	0.00	0.00	68.10	331.80	6.20	5.70	12.20	40.40	0.00	1.30	5.50	4,204.00	2,690
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.10	0.01	0.01	1.00	19

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 09/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.19

	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	182.80	73.52	0.00	0.00	28.06	194.80								1,637.00	1,047
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: 7.47

	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	3,696.00	270.30	0.00	0.00	61.30	473.11								5,772.00	3,694
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Barn

Barn

Barn

Sample description: Barn

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										290.00	
DL	0.10										1.00	

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	

Dom

Dom

Sample description: Dom

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										250.00	
DL	1.00										1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

401 - 11/01/2022: Wheat, silage, boot stage

401

Sample and source description: 401

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

Moisture: 57.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	4,500.00	32,500.00		12.64
DL	100.00	100.00	100.00		1.00

401 - 06/01/2023: Corn, silage

Dairy

Sample and source description: Dairy

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,400.00	3,100.00	18,300.00		6.09
DL	100.00	100.00	100.00		1.00

403 - 11/01/2022: Wheat, silage, boot stage

403 - 11/01/2022: Wheat, silage, boot stage

403

Sample and source description: 403

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

Moisture: 59.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,200.00	5,200.00	35,400.00		12.13
DL	100.00	100.00	100.00		1.00

403 - 06/01/2023: Corn, silage

403

Sample and source description: 403

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	2,500.00	15,900.00		5.34
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

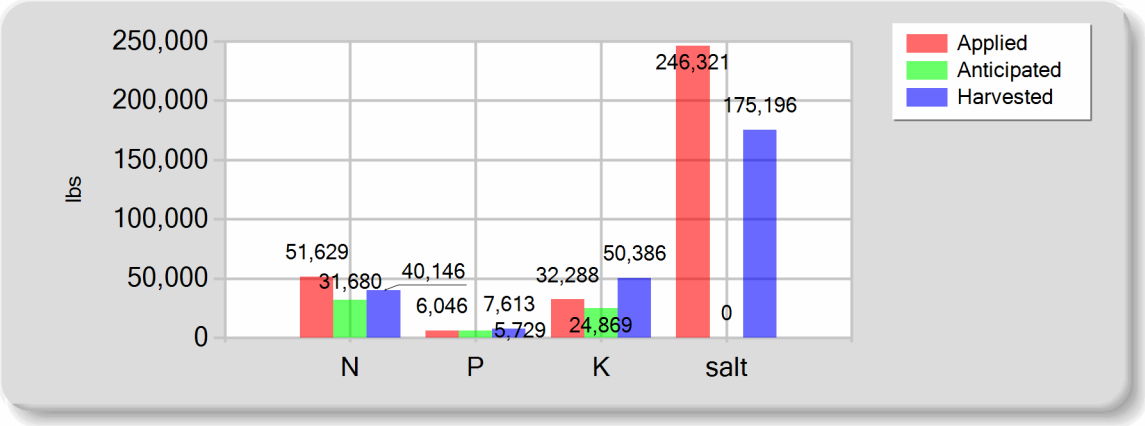
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

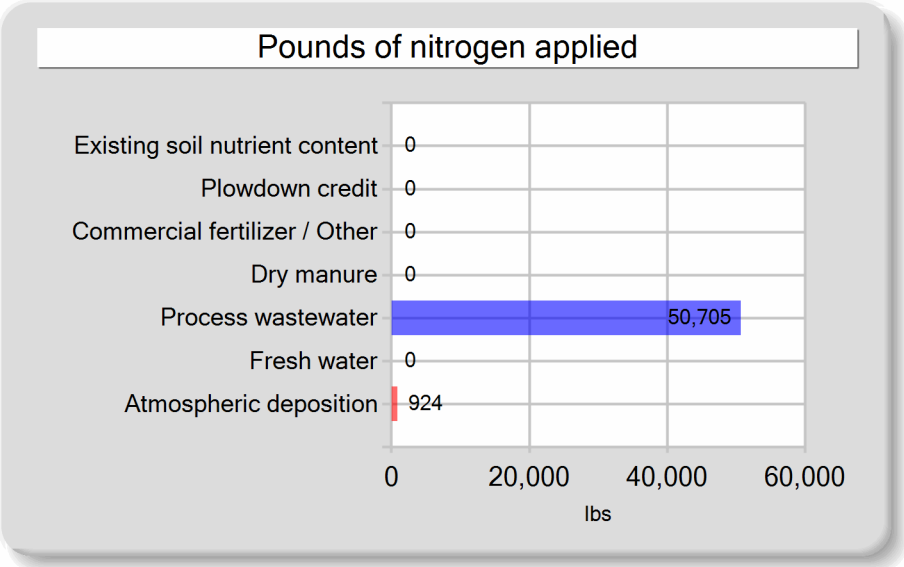
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

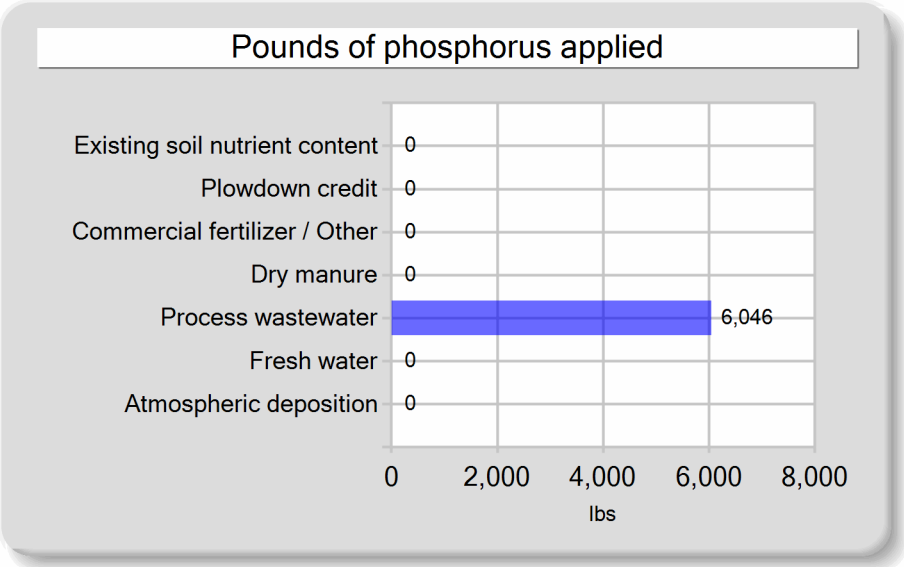
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	50,705.00	6,046.44	32,287.75	238,349.47
Fresh water	0.00	0.00	0.00	7,971.14
Atmospheric deposition	924.00	0.00	0.00	0.00
Total nutrients applied	51,629.00	6,046.44	32,287.75	246,320.62
Anticipated crop nutrient removal	31,680.00	5,728.80	24,868.80	0.00
Actual crop nutrient removal	40,146.12	7,613.07	50,385.69	175,195.84
Nutrient balance	11,482.88	-1,566.63	-18,097.94	71,124.78
Applied to removed ratio	1.29	0.79	0.64	1.41

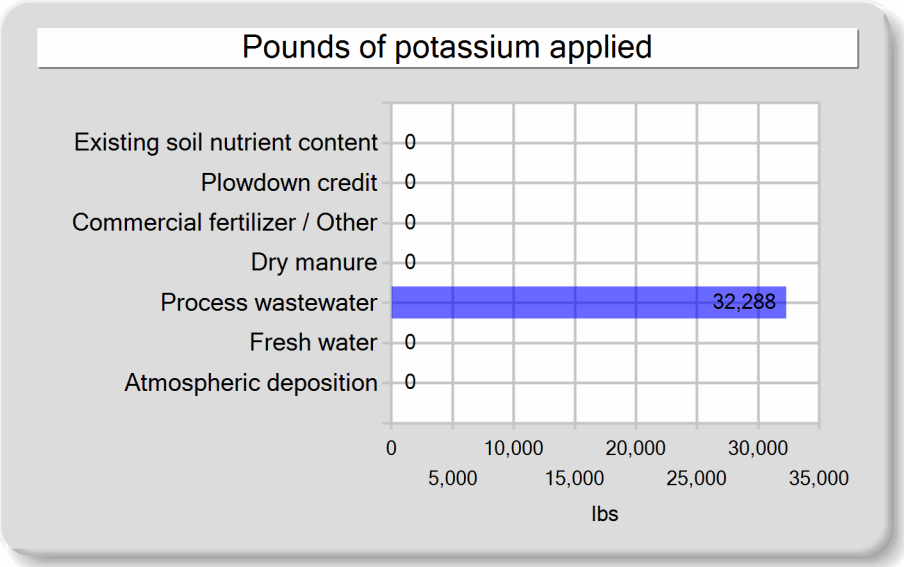
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

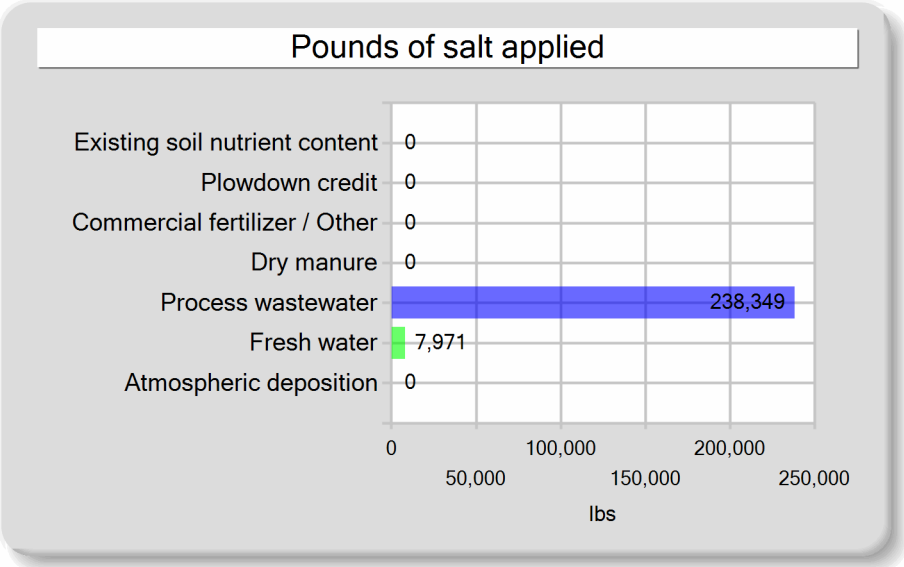


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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

All wells tested negative for Ammonia.
They were tested onsite with test strips.

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 .

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
Scott Crichley	Frank Espinloa
PRINT OR TYPE NAME	PRINT OR TYPE NAME
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.

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.

Scott Crichley
SIGNATURE OF OWNER OF FACILITY

Scott Crichley
PRINT OR TYPE NAME

6/17/24
DATE

Frank Espinloa
SIGNATURE OF OPERATOR OF FACILITY

Frank Espinloa
PRINT OR TYPE NAME

6/17/24
DATE

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

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

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: Frank Espinola, E

Name of Dairy Facility: Golden Star Dairy

Facility Address:

4109 E Conejo AVE	Selma	Fresno	93662
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: Frank Espinola (559) 380-8249
Name Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Medeiros Farms

Address of Hauling Company/Person:

12137 S Hughes AVE	Caruthers	CA	93609
Number and Street	City	State	Zip Code

Contact Person: Manuel Medeiros (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):

Medeiros Farms			(559) 906-1406
Name			Phone Number
12137 S Hughes	Caruthers	CA	93609
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

	Caruthers	93609
Address	City	Zip Code
Hughes		Fresno
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: 2,500.00 tons

Manure Solids Content: 69.6 %

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: 6/17/24

Hauler Signature — Date: 6/17/24

DELLAVALLE™
LABORATORY INC

Golden Star Dairy
Po Box 747
Caruthers, CA 93609

Account# 00-0025812
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/21/2023 08:22

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0636-01	Barn	Ag Water	Medeiros		12/12/2023 9:00
23L0636-02	Dom	Ag Water	Medeiros		12/12/2023 9:05

Default Cooler
Temperature on Receipt °C: 14.1
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
LABORATORY INC

Golden Star Dairy
Po Box 747
Caruthers, CA 93609

Account# 00-0025812
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/21/2023 08:22

Sample Results

Sample: Barn
23L0636-01 (Water)

Sampled: 12/12/2023 9:00
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.29**	mmhos/cm	0.01	1		12/13/23 14:52	SM 2510 B		BEL0494
Electrical Conductivity umhos	**289**	umhos/cm	10.0	1		12/13/23 14:52	SM 2510 B		BEL0494
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 09:00	Field		BEL0509
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/13/23 19:38	EPA 300.0		BEL0447
Temperature	**25.0**	units	0.0	1		12/13/23 14:52	SM 4500-H+	H	BEL0494
pH	**9.3**	units	1.0	1		12/13/23 14:52	SM 4500-H+	H	BEL0494

DELLAVALLE™
LABORATORY INC

Golden Star Dairy
Po Box 747
Caruthers, CA 93609

Account# 00-0025812
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/21/2023 08:22

Sample Results
(Continued)

Sample: Dom
23L0636-02 (Water)

Sampled: 12/12/2023 9:05
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.25**	mmhos/cm	0.01	1		12/13/23 14:53	SM 2510 B		BEL0494
Electrical Conductivity umhos	**254**	umhos/cm	10.0	1		12/13/23 14:53	SM 2510 B		BEL0494
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 09:05	Field		BEL0509
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/13/23 19:59	EPA 300.0		BEL0447
Temperature	**25.0**	units	0.0	1		12/13/23 14:53	SM 4500-H+	H	BEL0494
pH	**9.3**	units	1.0	1		12/13/23 14:53	SM 4500-H+	H	BEL0494

DELLAVALLE™
LABORATORY INC

Golden Star Dairy
Po Box 747
Caruthers, CA 93609

Account# 00-0025812
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/21/2023 08:22

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0447										
Blank (BEL0447-BLK1)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0447-BLK2)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0447-BLK3)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0447-BLK4)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0447-BS1)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		98.1	90-110		
LCS (BEL0447-BS2)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		98.5	90-110		
LCS (BEL0447-BS3)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	0.07		0.1	mg/L	5.000		1.44	90-110		
Duplicate (BEL0447-DUP1)		**Source: 23L0636-01**			Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	0.04		0.1	mg/L		0.04			5.26	10
Duplicate (BEL0447-DUP2)		**Source: 23L0777-05**			Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	1.8		0.1	mg/L		1.8			0.112	10
Duplicate (BEL0447-DUP3)		**Source: 23L0681-01**			Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	0.04		0.1	mg/L		0.04			2.74	10
Matrix Spike (BEL0447-MS1)		**Source: 23L0636-01**			Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000	0.04	96.0	90-110		
Matrix Spike (BEL0447-MS2)		**Source: 23L0777-05**			Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	6.7		0.1	mg/L	5.000	1.8	98.2	90-110		
Matrix Spike (BEL0447-MS3)		**Source: 23L0681-01**			Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000	0.04	98.0	90-110		
Reference (BEL0447-SRM1)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.7	90-110		
Reference (BEL0447-SRM2)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.5	90-110		

DELLAVALLE™
LABORATORY INC

Golden Star Dairy
Po Box 747
Caruthers, CA 93609

Account# 00-0025812
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/21/2023 08:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0447 (Continued)										
Reference (BEL0447-SRM3)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.2	90-110		
Reference (BEL0447-SRM4)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		95.5	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0494										
Blank (BEL0494-BLK1)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	6.3		1.0	units						
Blank (BEL0494-BLK2)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.6		1.0	units						
Blank (BEL0494-BLK3)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.8		1.0	units						
Duplicate (BEL0494-DUP1)		**Source: 23L0635-03**			Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1.22		0.01	mmhos/cm		1.22			0.664	10
pH	7.5		1.0	units		7.5			0.00	10
Electrical Conductivity umhos	1220		10.0	umhos/cm		1220			0.664	10
Duplicate (BEL0494-DUP2)		**Source: 23L0643-01**			Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	9.46		0.01	mmhos/cm		9.30			1.69	10
Electrical Conductivity umhos	9460		10.0	umhos/cm		9300			1.69	10
pH	7.3		1.0	units		7.3			0.137	10
Reference (BEL0494-SRM1)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	447			umhos/cm	426.0		105	90-110		
Reference (BEL0494-SRM2)					Prepared & Analyzed: 12/13/2023					
pH	7.5			units	7.520		100	67021-101.3		
Reference (BEL0494-SRM3)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEL0494-SRM4)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEL0494-SRM5)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		

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Received: 12/13/2023 7:00
Reported: 12/21/2023 08:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0494 (Continued)										
Reference (BEL0494-SRM5)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEL0494-SRM6)					Prepared & Analyzed: 12/13/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0494-SRM7)					Prepared & Analyzed: 12/13/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0494-SRM8)					Prepared & Analyzed: 12/13/2023					
pH	4.0			units	4.000		100	97.5-102.5		

12/13/23 07:00 23L0636

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6127 800 228-9896 • Fax 559 268-8174

Bill To: Acct No. 25812 Cons. 8

No. of Samples 2 No. Bottles 2

Purchase Order No. _____ Results Needed By _____

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

Client: **Golden Star Dairy**
Address: PO Box 747
City, State, Zip: Caruthers, CA 93609
Email: paula.espinola@yahoo.com

Copy to: mel_tinamedeiros@yahoo.com

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

Facility: _____

Date sampled _____

Sampled by Medeiros

☑ QA/QC Document ☑ Copy of Chain ☑ RWQCB

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 SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. Barn	Sampled From:	12/12/23	9AM	0	14.1 / 2.4
2. Dam	Sampled From:	12/12/23	9:05AM	0	14.5 / 0.1
3.	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

H/E

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				12/12/23 11:32AM
Second		DU	12/12/23 11:32AM	
Third				
Fourth			12/13 08:00	

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

12/13/23 07:00 23L0636

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:										