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: Joe B Pacheco Dairy

Physical address of dairy:

16025 6 1/2 AVE	Hanford	Kings	93230
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 01/01/1975

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0028-0170-0031-0000 0028-0170-0032-0000

B. OPERATORS

Pacheco, Maria Carmel

Operator name: Pacheco, Maria Carmel Telephone no.: (559) 583-0734

Landline Cellular

16391 6 1/2 AVE	Hanford	CA	93230
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Pacheco, Maria Carmel

Legal owner name: Pacheco, Maria Carmel Telephone no.: (559) 583-0734

Landline Cellular

16391 6 1/2 AVE	Hanford	CA	93230
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	110	200	200	0	0
Number under roof	1,090	0	0	0	0	0
Maximum number	1,090	110	200	200	0	0
Average number	1,090	110	200	200	0	0
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 69 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 33,422.36 *tons per reporting period*

Total nitrogen from manure: 421,926.75 *lbs per reporting period* After ammonia losses (30% loss applied): 295,348.73 *lbs per reporting period*

Total phosphorus from manure: 70,654.20 *lbs per reporting period*

Total potassium from manure: 208,028.93 *lbs per reporting period*

Total salt from manure: 538,521.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 32,847,000 *gallons*

Total nitrogen generated: 168,471.57 *lbs*

Total phosphorus generated: 15,546.87 *lbs*

Total potassium generated: 150,928.53 *lbs*

Total salt generated: 816,041.96 *lbs*

	32,847,000	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	32,847,000	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Barn	Ground water
Canal	Surface 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

No solid nutrient exports entered.

No liquid nutrient exports entered.

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	51	51	2	process wastewater	X028-X180-X001-XXXX X028-X180-X032-XXXX
2	68	68	2	process wastewater	X028-X170-X045-XXXX X028-X170-X047-XXXX
3	71	71	2	process wastewater	X028-X170-X015-XXXX
4	43	43	2	process wastewater	X028-X170-X016-XXXX
5	19	19	2	process wastewater	X028-X170-X018-XXXX
6	4	4	0	none	X028-X017-X004-XXXX
Totals for areas that were used for application	252	252	10		
Totals for areas that were not used for application	4	4	0		
Land application area totals	256	256	10		

B. CROPS AND HARVESTS

1

Field name: 1

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

Crop: Wheat, silage, boot stage Acres planted: 51 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 (%)
05/09/2023	865.20 *ton*	Dry-weight		64.5	25,000.00	3,800.00	18,300.00		11.18

	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	16.96	301.12	45.77	220.42	1,346.62

1

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 51 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 (%)
09/11/2023	1,475.30 *ton*	Dry-weight		69.1	12,600.00	2,700.00	14,600.00		5.45

	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	28.93	225.25	48.27	261.01	974.31

2

Field name: 2

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

Crop: Wheat, silage, boot stage Acres planted: 68 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 (%)
05/09/2023	1,105.30 *ton*	Dry-weight		65.9	19,600.00	3,200.00	16,900.00		9.03

	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	16.25	217.28	35.47	187.35	1,001.02

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 68 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 (%)
09/11/2023	1,955.10 *ton*	Dry-weight		66.8	19,700.00	2,800.00	18,100.00		5.16

	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	28.75	376.09	53.45	345.55	985.09

3

Field name: 3

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

Crop: Wheat, silage, boot stage Acres planted: 71 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 (%)
05/09/2023	1,183.20 *ton*	Dry-weight		64.2	21,100.00	3,100.00	15,900.00		8.83

	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	16.66	251.76	36.99	189.72	1,053.59

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 71 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 (%)
09/11/2023	1,734.44 *ton*	Dry-weight		69.1	16,600.00	2,700.00	14,600.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	24.43	250.61	40.76	220.42	679.36

4

Field name: 4

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

Crop: Wheat, silage, boot stage Acres planted: 43 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 (%)
05/09/2023	705.20 *ton*	Dry-weight		62.2	15,100.00	3,000.00	18,000.00		8.24

	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	16.40	187.22	37.20	223.17	1,021.63

4

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 43 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/26/2023	1,158.80 *ton*	Dry-weight		88.3	20,900.00	2,500.00	17,000.00		5.18

	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	26.95	131.80	15.77	107.20	326.65

5

Field name: 5

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

Crop: Wheat, silage, boot stage Acres planted: 19 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 (%)
05/09/2023	321.20 *ton*	Dry-weight		63.1	19,700.00	3,100.00	15,900.00		5.85

	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	16.91	245.78	38.68	198.37	729.85

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 19 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 (%)
09/11/2023	552.10 *ton*	Dry-weight		65.4	17,500.00	2,600.00	13,500.00		4.63

	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	29.06	351.89	52.28	271.46	931.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/01/2022: Wheat, silage, boot stage

Field name: 1

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
12/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	127.52	4.88	40.18	251.41	876,000.00 *gal*
Application event totals		127.52	4.88	40.18	251.41	

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	142.08	5.44	44.77	280.11	976,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.21	5,200,000.00 *gal*
Application event totals		142.08	5.44	44.77	290.32	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/14/2023	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	142.08	5.44	44.77	280.11	976,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.21	5,200,000.00 *gal*
Application event totals		142.08	5.44	44.77	290.32	

1 - 06/01/2023: Corn, silage

Field name: 1

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

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

1 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.98	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.98	

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
WW	Process wastewater	104.27	15.39	128.97	692.13	1,276,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.98	7,118,000.00 *gal*
Application event totals		104.27	15.39	128.97	706.11	

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
Canal	Surface water	0.00	0.00	0.00	13.98	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.98	

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
WW	Process wastewater	104.27	15.39	128.97	692.13	1,276,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.98	7,118,000.00 *gal*
Application event totals		104.27	15.39	128.97	706.11	

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
Canal	Surface water	0.00	0.00	0.00	13.98	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.98	

1 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	87.55	10.28	185.31	917.42	1,276,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.98	7,118,000.00 *gal*
Application event totals		87.55	10.28	185.31	931.39	

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
Canal	Surface water	0.00	0.00	0.00	13.98	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.98	

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	13.98	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.98	

2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

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
12/29/2022	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	146.74	5.62	46.24	289.30	1,344,000.00 *gal*
Application event totals		146.74	5.62	46.24	289.30	

2 - 11/01/2022: Wheat, silage, boot stage

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	146.74	5.62	46.24	289.30	1,344,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	7.14	4,850,000.00 *gal*
Application event totals		146.74	5.62	46.24	296.44	

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	7.14	4,850,000.00 *gal*
Application event totals		0.00	0.00	0.00	7.14	

2 - 06/01/2023: Corn, silage

Field name: 2

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	100.76	14.87	124.62	668.81	1,644,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		100.76	14.87	124.62	679.29	

2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	100.76	14.87	124.62	668.81	1,644,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		100.76	14.87	124.62	679.29	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	100.76	14.87	124.62	668.81	1,644,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		100.76	14.87	124.62	679.29	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	100.76	14.87	124.62	668.81	1,644,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		100.76	14.87	124.62	679.29	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	100.76	14.87	124.62	668.81	1,644,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		100.76	14.87	124.62	679.29	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.48	

2 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.48	7,118,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.48	

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

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
02/04/2023	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	161.45	6.18	50.88	318.31	1,544,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	6.84	4,850,000.00 *gal*
Application event totals		161.45	6.18	50.88	325.15	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/05/2023	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	6.84	4,850,000.00 *gal*
Application event totals		0.00	0.00	0.00	6.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	161.45	6.18	50.88	318.31	1,544,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	6.84	4,850,000.00 *gal*
Application event totals		161.45	6.18	50.88	325.15	

3 - 06/01/2023: Corn, silage

3 - 06/01/2023: Corn, silage

Field name: 3

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/25/2023	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
Canal	Surface water	0.00	0.00	0.00	14.19	10,064,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.19	

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	14.19	10,064,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	71.61	10.57	88.57	475.35	1,220,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.19	10,064,000.00 *gal*
Application event totals		71.61	10.57	88.57	489.54	

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	71.61	10.57	88.57	475.35	1,220,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.19	10,064,000.00 *gal*
Application event totals		71.61	10.57	88.57	489.54	

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	71.61	10.57	88.57	475.35	1,220,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.19	10,064,000.00 *gal*
Application event totals		71.61	10.57	88.57	489.54	

3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/15/2023	Shank	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	60.12	7.06	127.27	630.07	1,220,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.19	10,064,000.00 *gal*
Application event totals		60.12	7.06	127.27	644.26	

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	60.12	7.06	127.27	630.07	1,220,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.19	10,064,000.00 *gal*
Application event totals		60.12	7.06	127.27	644.26	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.19	10,064,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.19	

4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

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
12/29/2022	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	89.78	3.44	28.29	177.01	520,000.00 *gal*
Application event totals		89.78	3.44	28.29	177.01	

4 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.38	3,600,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	151.25	5.79	47.66	298.19	876,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.38	3,600,000.00 *gal*
Application event totals		151.25	5.79	47.66	306.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/22/2023	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
Canal	Surface water	0.00	0.00	0.00	8.38	3,600,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.38	

4 - 06/01/2023: Corn, silage

Field name: 4

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	13.77	5,912,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.77	

4 - 06/01/2023: Corn, silage

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	88.39	13.04	109.33	586.73	912,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.77	5,912,000.00 *gal*
Application event totals		88.39	13.04	109.33	600.50	

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	13.77	5,912,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.77	

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
Canal	Surface water	0.00	0.00	0.00	13.77	5,912,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.77	

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	13.77	5,912,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.77	

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	74.21	8.72	157.09	777.70	912,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.77	5,912,000.00 *gal*
Application event totals		74.21	8.72	157.09	791.47	

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	13.77	5,912,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.77	

4 - 06/01/2023: Corn, silage

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	13.77	5,912,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.77	

5 - 11/01/2022: Wheat, silage, boot stage

Field name: 5

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
12/23/2022	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	154.35	5.91	48.64	304.30	395,000.00 *gal*
Application event totals		154.35	5.91	48.64	304.30	

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
WW	Process wastewater	154.35	5.91	48.64	304.30	395,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.59	1,820,000.00 *gal*
Application event totals		154.35	5.91	48.64	313.89	

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	9.59	1,820,000.00 *gal*
Application event totals		0.00	0.00	0.00	9.59	

5 - 06/01/2023: Corn, silage

Field name: 5

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

5 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.65	2,020,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.65	

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	10.65	2,020,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.65	

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	152.44	22.50	188.55	1,011.91	695,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.65	2,020,000.00 *gal*
Application event totals		152.44	22.50	188.55	1,022.55	

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	10.65	2,020,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.65	

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	152.44	22.50	188.55	1,011.91	695,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.65	2,020,000.00 *gal*
Application event totals		152.44	22.50	188.55	1,022.55	

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	10.65	2,020,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.65	

5 - 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	127.99	15.03	270.93	1,341.27	695,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.65	2,020,000.00 *gal*
Application event totals		127.99	15.03	270.93	1,351.92	

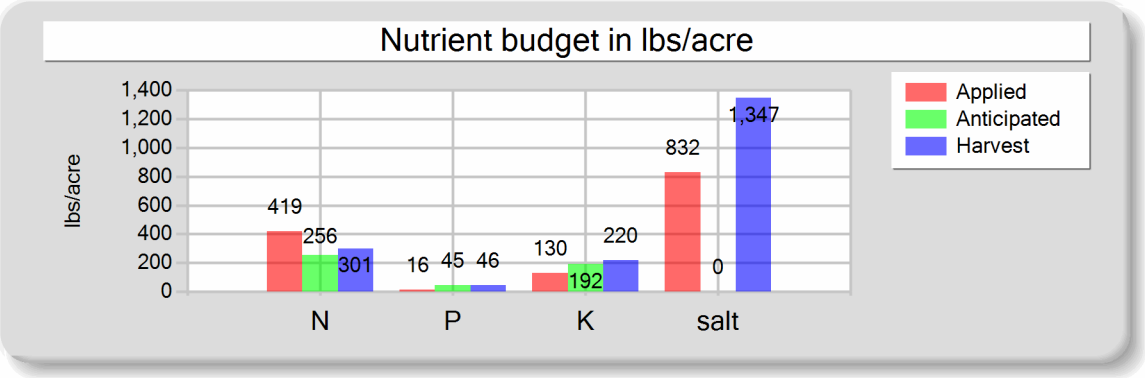
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

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	10.65	2,020,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.65	

B. NUTRIENT BUDGET

1 - 11/01/2022: Wheat, silage, boot stage

Field name: 1 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	411.68	15.77	129.73	811.64
Fresh water	0.00	0.00	0.00	20.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	418.68	15.77	129.73	832.06
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	301.12	45.77	220.42	1,346.62
Nutrient balance	117.56	-30.01	-90.69	-514.56
Applied to removed ratio	1.39	0.34	0.59	0.62

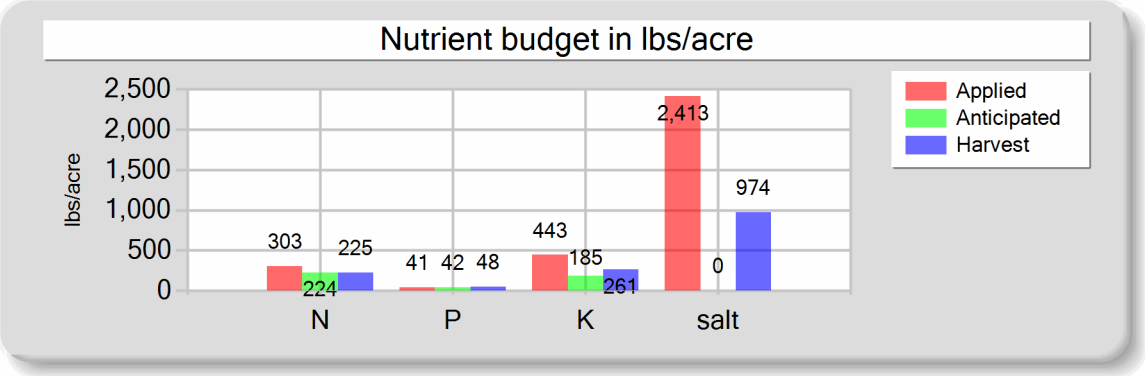
Fresh water applied	
10,400,000.00	*gallons*
383.00	*acre-inches*
7.51	*inches/acre*

Process wastewater applied	
2,828,000.00	*gallons*
104.15	*acre-inches*
2.04	*inches/acre*

Total harvests for the crop	
1	*harvests*

1 - 06/01/2023: Corn, silage

Field name: 1 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	296.08	41.06	443.25	2,301.69
Fresh water	0.00	0.00	0.00	111.81
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	303.08	41.06	443.25	2,413.50
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	225.25	48.27	261.01	974.31
Nutrient balance	77.83	-7.21	182.25	1,439.19
Applied to removed ratio	1.35	0.85	1.70	2.48

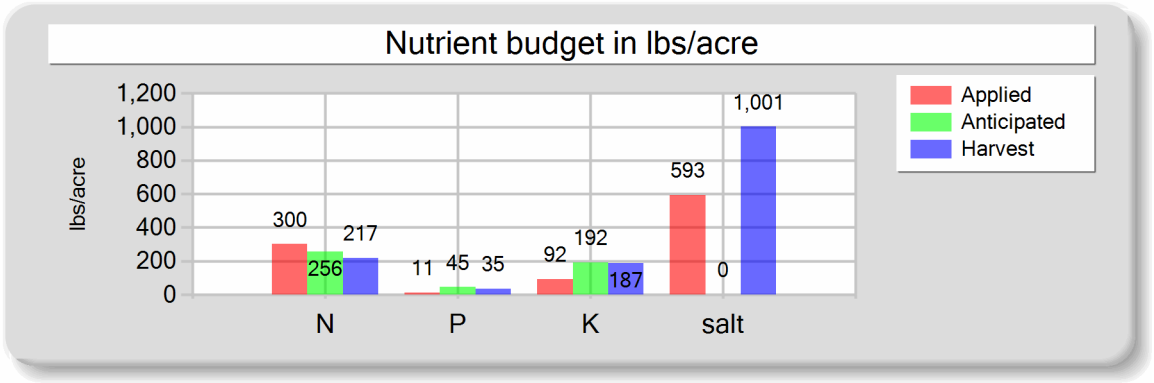
Fresh water applied	
56,944,000.00	*gallons*
2,097.05	*acre-inches*
41.12	*inches/acre*

Process wastewater applied	
3,828,000.00	*gallons*
140.97	*acre-inches*
2.76	*inches/acre*

Total harvests for the crop	
1	*harvests*

2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2 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	293.47	11.24	92.48	578.60
Fresh water	0.00	0.00	0.00	14.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.47	11.24	92.48	592.88
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	217.28	35.47	187.35	1,001.02
Nutrient balance	83.20	-24.23	-94.87	-408.14
Applied to removed ratio	1.38	0.32	0.49	0.59

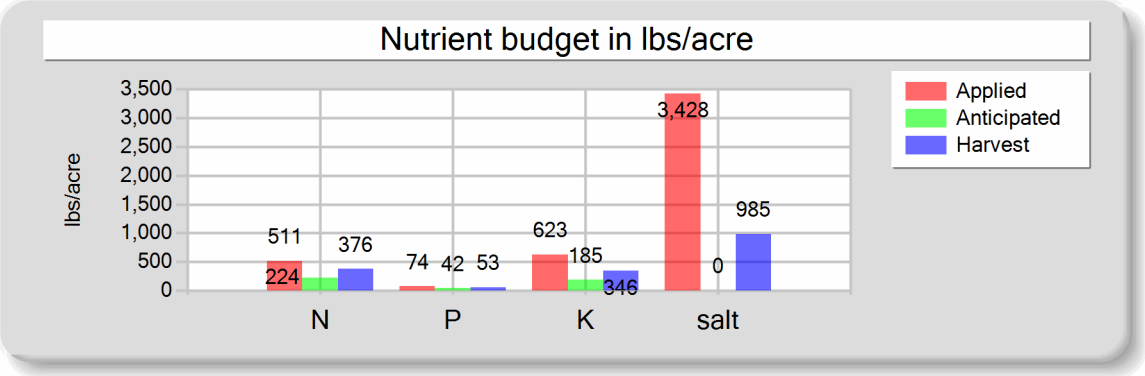
Fresh water applied	
9,700,000.00	*gallons*
357.22	*acre-inches*
5.25	*inches/acre*

Process wastewater applied	
2,688,000.00	*gallons*
98.99	*acre-inches*
1.46	*inches/acre*

Total harvests for the crop	
1	*harvests*

2 - 06/01/2023: Corn, silage

Field name: 2 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	503.78	74.35	623.11	3,344.05
Fresh water	0.00	0.00	0.00	83.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	510.78	74.35	623.11	3,427.91
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	376.09	53.45	345.55	985.09
Nutrient balance	134.68	20.89	277.57	2,442.81
Applied to removed ratio	1.36	1.39	1.80	3.48

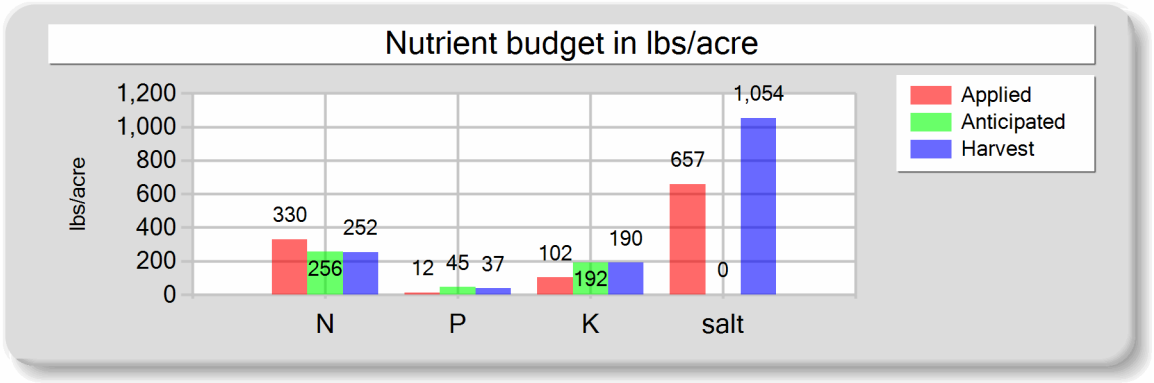
Fresh water applied	
56,944,000.00	*gallons*
2,097.05	*acre-inches*
30.84	*inches/acre*

Process wastewater applied	
8,220,000.00	*gallons*
302.71	*acre-inches*
4.45	*inches/acre*

Total harvests for the crop	
1	*harvests*

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3 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	322.90	12.37	101.75	636.61
Fresh water	0.00	0.00	0.00	20.52
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	329.90	12.37	101.75	657.13
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	251.76	36.99	189.72	1,053.59
Nutrient balance	78.14	-24.62	-87.97	-396.46
Applied to removed ratio	1.31	0.33	0.54	0.62

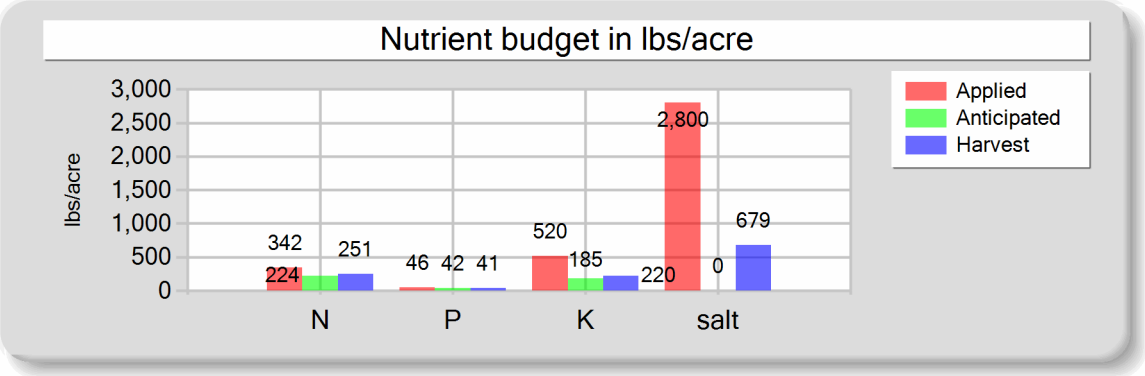
Fresh water applied	
14,550,000.00	*gallons*
535.83	*acre-inches*
7.55	*inches/acre*

Process wastewater applied	
3,088,000.00	*gallons*
113.72	*acre-inches*
1.60	*inches/acre*

Total harvests for the crop	
1	*harvests*

3 - 06/01/2023: Corn, silage

Field name: 3 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	335.08	45.83	520.26	2,686.18
Fresh water	0.00	0.00	0.00	113.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	342.08	45.83	520.26	2,799.74
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	250.61	40.76	220.42	679.36
Nutrient balance	91.47	5.06	299.85	2,120.37
Applied to removed ratio	1.36	1.12	2.36	4.12

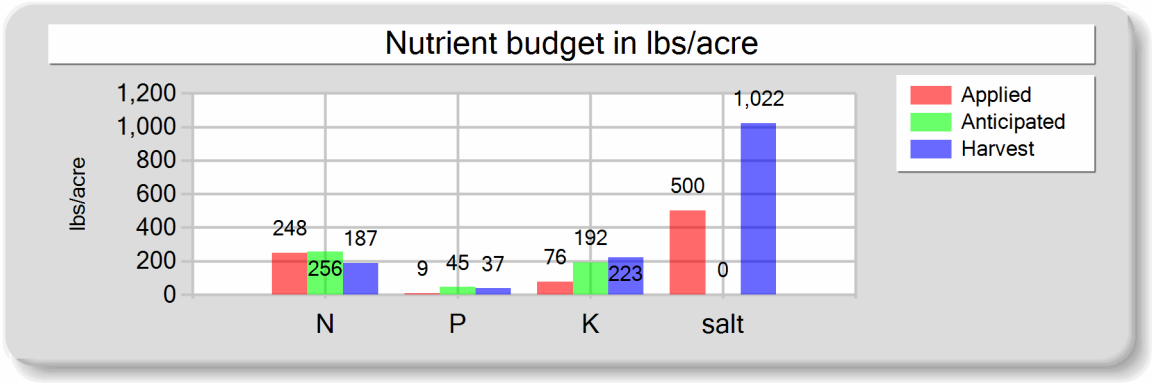
Fresh water applied	
80,512,000.00	*gallons*
2,964.98	*acre-inches*
41.76	*inches/acre*

Process wastewater applied	
6,100,000.00	*gallons*
224.64	*acre-inches*
3.16	*inches/acre*

Total harvests for the crop	
1	*harvests*

4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4 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	241.03	9.23	75.95	475.20
Fresh water	0.00	0.00	0.00	25.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	248.03	9.23	75.95	500.35
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	187.22	37.20	223.17	1,021.63
Nutrient balance	60.81	-27.96	-147.22	-521.28
Applied to removed ratio	1.32	0.25	0.34	0.49

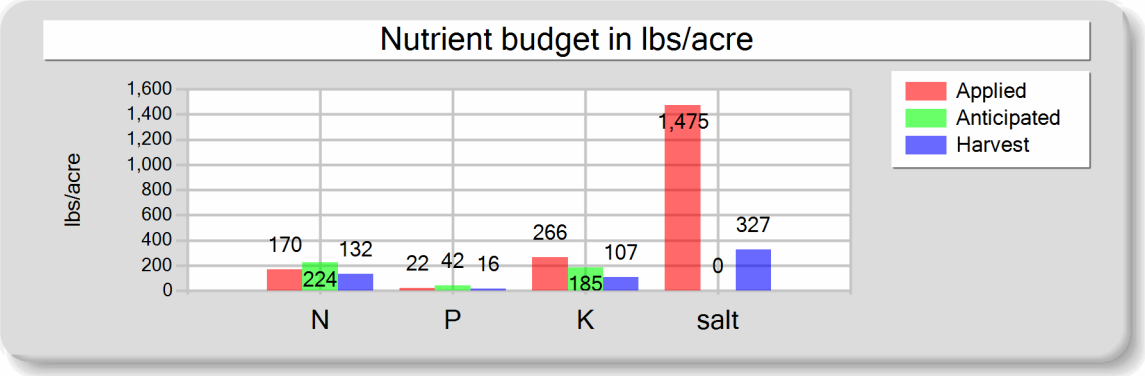
Fresh water applied	
10,800,000.00	*gallons*
397.73	*acre-inches*
9.25	*inches/acre*

Process wastewater applied	
1,396,000.00	*gallons*
51.41	*acre-inches*
1.20	*inches/acre*

Total harvests for the crop	
1	*harvests*

4 - 06/01/2023: Corn, silage

Field name: 4 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	162.60	21.76	266.42	1,364.43
Fresh water	0.00	0.00	0.00	110.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	169.60	21.76	266.42	1,474.57
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	131.80	15.77	107.20	326.65
Nutrient balance	37.81	5.99	159.22	1,147.92
Applied to removed ratio	1.29	1.38	2.49	4.51

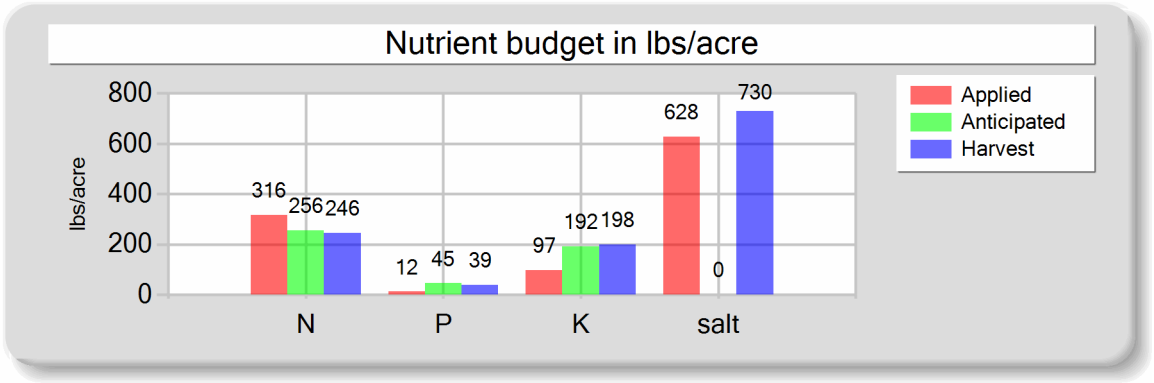
Fresh water applied	
47,296,000.00	*gallons*
1,741.75	*acre-inches*
40.51	*inches/acre*

Process wastewater applied	
1,824,000.00	*gallons*
67.17	*acre-inches*
1.56	*inches/acre*

Total harvests for the crop	
1	*harvests*

5 - 11/01/2022: Wheat, silage, boot stage

Field name: 5 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	308.69	11.82	97.27	608.60
Fresh water	0.00	0.00	0.00	19.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.69	11.82	97.27	627.78
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	245.78	38.68	198.37	729.85
Nutrient balance	69.91	-26.85	-101.09	-102.07
Applied to removed ratio	1.28	0.31	0.49	0.86

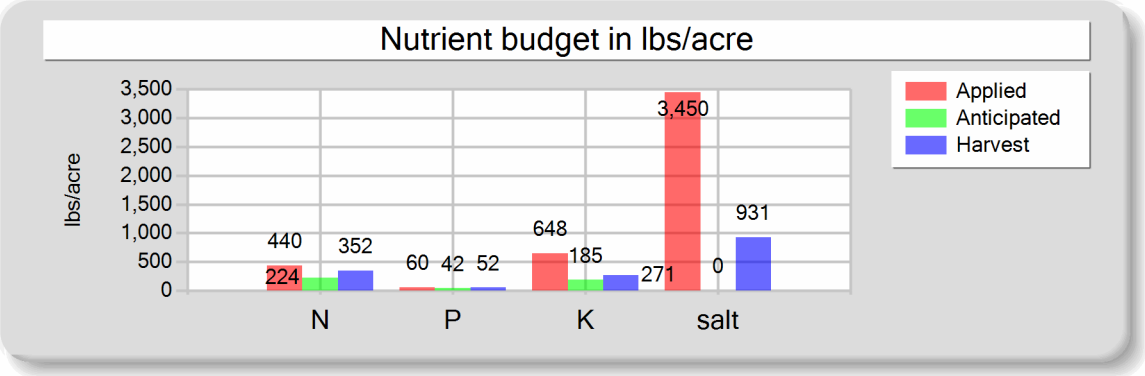
Fresh water applied	
3,640,000.00	*gallons*
134.05	*acre-inches*
7.06	*inches/acre*

Process wastewater applied	
790,000.00	*gallons*
29.09	*acre-inches*
1.53	*inches/acre*

Total harvests for the crop	
1	*harvests*

5 - 06/01/2023: Corn, silage

Field name: 5 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	432.88	60.02	648.04	3,365.09
Fresh water	0.00	0.00	0.00	85.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	439.88	60.02	648.04	3,450.26
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	351.89	52.28	271.46	931.00
Nutrient balance	87.99	7.74	376.58	2,519.26
Applied to removed ratio	1.25	1.15	2.39	3.71

Fresh water applied	
16,160,000.00	*gallons*
595.12	*acre-inches*
31.32	*inches/acre*

Process wastewater applied	
2,085,000.00	*gallons*
76.78	*acre-inches*
4.04	*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: 14.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	5,800.00	22,200.00	15,400.00	8,500.00	8,900.00	4,900.00	1,101.50		67.17
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: 28.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,300.00	5,300.00	18,800.00							54.50
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: 7.57

	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	889.66	91.41	0.00	0.00	34.07	280.35								2,740.00	1,754
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: 7.72

	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	499.40	164.50	0.00	0.00	73.70	617.70	6.60	7.50	6.60	48.20	0.00	1.30	7.50	5,181.00	3,315
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.01	0.01	0.02	0.10	0.10	0.02	0.01	1.00	19

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 08/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.65

	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	419.30	147.00	0.00	0.00	49.24	887.57								6,866.00	4,394
DL	57.00	0.67	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: 7.35

	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	177.00	0.00	0.00	50.80	355.00								36,776.00	2,353
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										381.00	
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	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 11/01/2022: Wheat, silage, boot stage

1 - 11/01/2022: Wheat, silage, boot stage

1

Sample and source description: 1

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,000.00	3,800.00	18,300.00		11.18
DL	100.00	100.00	100.00		1.00

1 - 06/01/2023: Corn, silage

1

Sample and source description: 1

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	2,700.00	14,600.00		5.45
DL	100.00	100.00	100.00		1.00

2 - 11/01/2022: Wheat, silage, boot stage

2

Sample and source description: 2

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,600.00	3,200.00	16,900.00		9.03
DL	100.00	100.00	100.00		1.00

2 - 06/01/2023: Corn, silage

2

Sample and source description: 2

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,700.00	2,800.00	18,100.00		5.16
DL	100.00	100.00	100.00		1.00

3 - 11/01/2022: Wheat, silage, boot stage

3

Sample and source description: 3

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,100.00	3,100.00	15,900.00		8.83
DL	100.00	100.00	100.00		1.00

3 - 06/01/2023: Corn, silage

3

Sample and source description: 3

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,600.00	2,700.00	14,600.00		4.50
DL	100.00	100.00	100.00		1.00

4 - 11/01/2022: Wheat, silage, boot stage

4

Sample and source description: 4

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	3,000.00	18,000.00		8.24
DL	100.00	100.00	100.00		1.00

4 - 06/01/2023: Corn, silage

4

Sample and source description: 4

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 88.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,900.00	2,500.00	17,000.00		5.18
DL	100.00	100.00	100.00		1.00

5 - 11/01/2022: Wheat, silage, boot stage

5

Sample and source description: 5

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,700.00	3,100.00	15,900.00		5.85
DL	100.00	100.00	100.00		1.00

5 - 06/01/2023: Corn, silage

5

Sample and source description: 5

Sample date: 09/11/2023 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	17,500.00	2,600.00	13,500.00		4.63
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

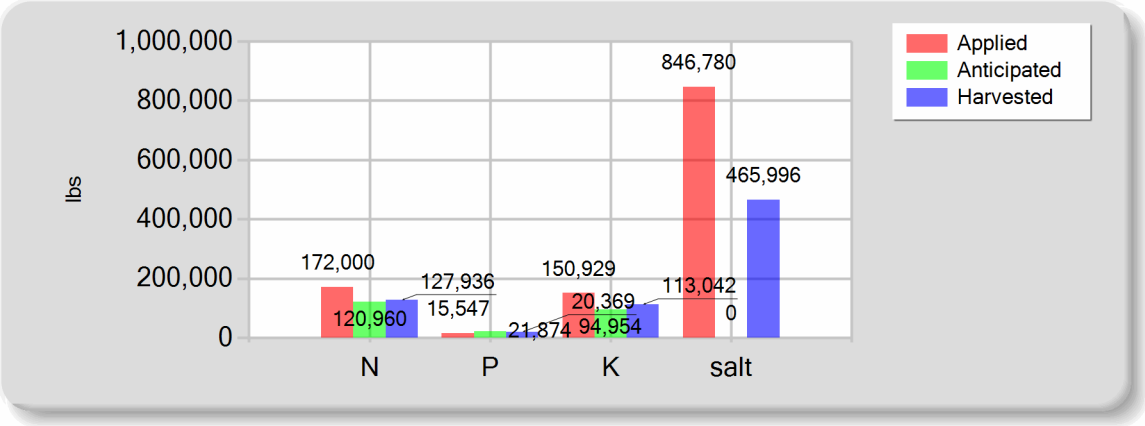
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

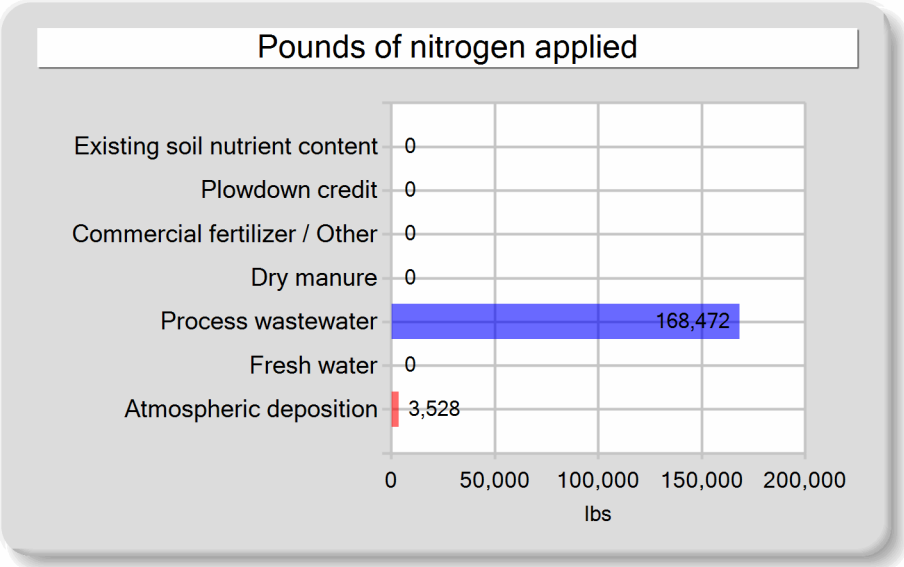
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

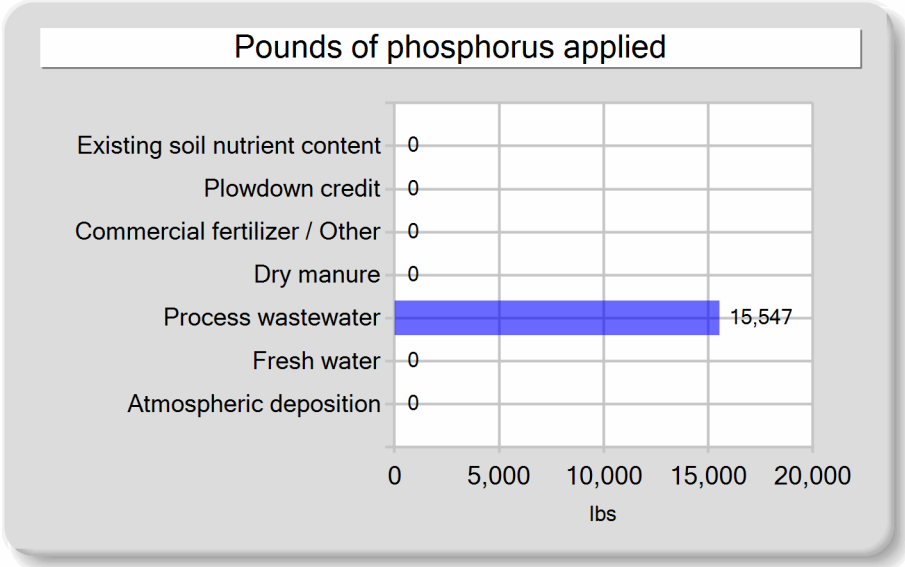
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	168,471.57	15,546.87	150,928.53	816,041.96
Fresh water	0.00	0.00	0.00	30,737.57
Atmospheric deposition	3,528.00	0.00	0.00	0.00
Total nutrients applied	171,999.57	15,546.87	150,928.53	846,779.53
Anticipated crop nutrient removal	120,960.00	21,873.60	94,953.60	0.00
Actual crop nutrient removal	127,936.03	20,368.91	113,041.86	465,995.58
Nutrient balance	44,063.54	-4,822.05	37,886.67	380,783.95
Applied to removed ratio	1.34	0.76	1.34	1.82

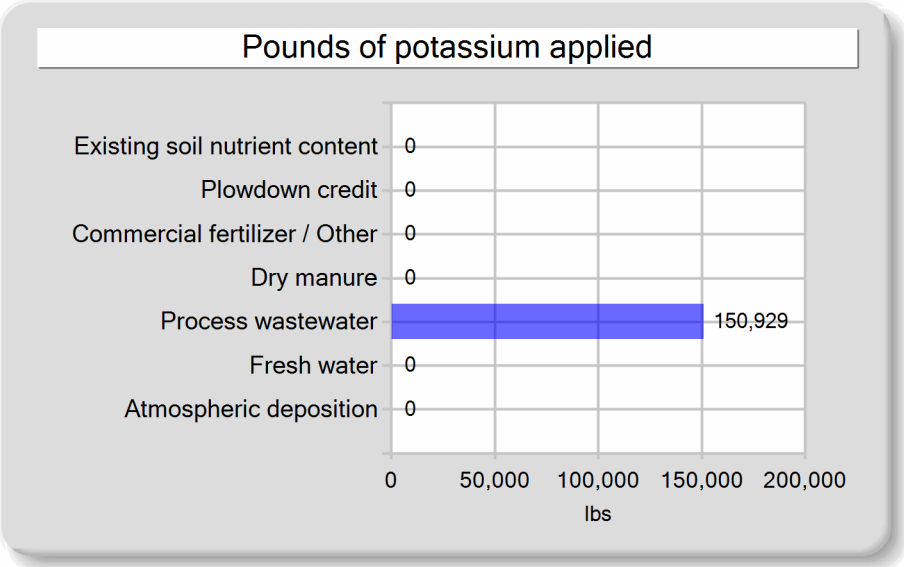
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

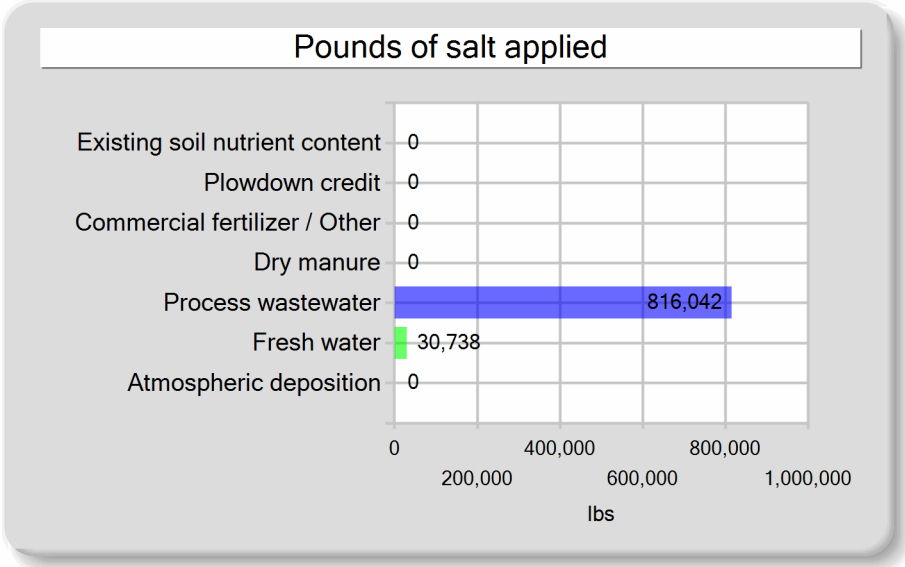


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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 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 .

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
Maria Carmel Pacheco	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6/14/24	
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.

DELLAVALLE™
LABORATORY INC

Tony Cox Dairy #4
1509 W. Muscat Place
Hanford, CA 93230

Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 12:02

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0601-01	Barn	Ag Water	Christina		12/11/2023 14:30

Default Cooler Temperature on Receipt °C: 21.8
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

Tony Cox Dairy #4
1509 W. Muscat Place
Hanford, CA 93230

Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 12:02

Sample Results

Sample: Barn
23L0601-01 (Water)

Sampled: 12/11/2023 14:30
Sampled By: Christina

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.38**	mmhos/cm	0.01	1		12/12/23 16:39	SM 2510 B		BEL0389
Electrical Conductivity umhos	**381**	umhos/cm	10.0	1		12/12/23 16:39	SM 2510 B		BEL0389
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/13/23 03:07	EPA 300.0		BEL0350

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Hanford, CA 93230

Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 12:02

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

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1509 W. Muscat Place
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Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 12:02

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		

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Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/12/2023 7:40
Reported: 12/18/2023 12:02

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		

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12/12/23 07:40 23L0601

JG

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

Acct No. 25791 Cons. 8

Bill To:

Purchase Order No. Results Needed By

No. of Samples 8 No. Bottles 8

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

Client **Tony Cox Dairy #4**
Address 1509 W. Muscat Place
City, State, Zip Hanford CA 93230
Email elsapcox@yahoo.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

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. [illegible]	Sampled From:				
2. [illegible]	Sampled From:				
3. [illegible]	Sampled From:				
4. [illegible]					
5. Barn		12/11/23	730		21.8 / -1.9
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				

Temperature Upon Receipt
Hanford (°C): 21.8
Laboratory (°C): -1.9

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

R 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	[signature]			12/11/23 3:30
Second	[signature]	DLL	12/11/23 3:36pm	
Third				
Fourth	[signature]	DLL	12/12 07:40	

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 uader 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 23L0601

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

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

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

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

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

DRAFT
SEND OUT

DELLAVALLE™
LABORATORY INC

Tony Cox Dairy #4
1509 W. Muscat Place
Hanford, CA 93230

Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/23/2023 15:37

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1599-01	Canal	Ag Water			08/16/2023 15:50

Default Cooler Temperature on Receipt °C: 0.1
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

Tony Cox Dairy #4
1509 W. Muscat Place
Hanford, CA 93230

Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/23/2023 15:37

Sample Results

Sample: Canal
23H1599-01 (Water)

Sampled: 8/16/2023 15:50
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 17:33	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 03:32	EPA 300.0		BEH0886

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LABORATORY INC

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1509 W. Muscat Place
Hanford, CA 93230

Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/23/2023 15:37

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0886										
Blank (BEH0886-BLK1)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0886-BLK2)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0886-BLK3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH0886-BS1)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		97.8	90-110		
LCS (BEH0886-BS2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		98.4	90-110		
Duplicate (BEH0886-DUP1)		**Source: 23H0170-01**			Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	0.2		0.1	mg/L		0.2			0.475	10
Duplicate (BEH0886-DUP2)		**Source: 23H1556-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.8		0.1	mg/L		5.8			0.172	10
Matrix Spike (BEH0886-MS1)		**Source: 23H0170-01**			Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000	0.2	99.6	90-110		
Matrix Spike (BEH0886-MS2)		**Source: 23H1556-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.8		0.1	mg/L	5.000	5.8	98.9	90-110		
Reference (BEH0886-SRM1)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.8	90-110		
Reference (BEH0886-SRM2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.6	90-110		
Reference (BEH0886-SRM3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.6	90-110		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

DELLAVALLE™
LABORATORY INC

Tony Cox Dairy #4
1509 W. Muscat Place
Hanford, CA 93230

Account# 00-0025791
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:34
Reported: 08/23/2023 15:37

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0918										
Blank (BEH0918-BLK1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Blank (BEH0918-BLK2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Blank (BEH0918-BLK3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Duplicate (BEH0918-DUP1)		**Source: 23H1497-03**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	0.02		0.01	mmhos/cm		0.02			9.30	10
Duplicate (BEH0918-DUP2)		**Source: 23H1590-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	0.02		0.01	mmhos/cm		0.02			0.00	10
Reference (BEH0918-SRM1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	511			umhos/cm	538.0		94.9	90-110		
Reference (BEH0918-SRM3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	956			umhos/cm	1000		95.6	90-110		
Reference (BEH0918-SRM4)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	956			umhos/cm	1000		95.6	90-110		
Reference (BEH0918-SRM5)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	971			umhos/cm	1000		97.1	90-110		

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08/17/23 08:34 23H1599

EMS

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

Acct No. / Cons.
Bill To: 25791 / 8

No. of Samples 1 No. Bottles 1

Purchase Order No. ____ Results Needed By ____

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

Client: **Tony Cox Dairy #4**
Address: 1509 W. Muscat Place
City, State, Zip: Hanford CA 93230
Email: elsapcox@yahoo.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 [x] 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. Canal	Sampled From:	8/16/23	3:30pm		0.1
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

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		Medeiros		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.
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 ____
Amt Paid ____ Rec By ____ Check No. ____

Shipping
$ ____ In
$ ____ Out
Date ____

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

ctl:update 2020

9 D

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

08/17/23 08:34 23H1599

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 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:										

DLI SEND OUT