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Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2011 to 12/31/2011.

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: Henry Tosta Dairy

Physical address of dairy:

20662 San Jose Road	Tracy	San Joaquin	95304
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 07/05/1962

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

County Assessor Parcel Number(s) for dairy facility:

0209-0290-0007-0000

B. OPERATORS

Tosta, Henry

Operator name: Tosta, Henry Telephone no.: (209) 836-1286 Landline (209) 814-0139 Cellular

20662 San Jose RD	Tracy	CA	95304
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Tosta, Henry

Legal owner name: Tosta, Henry Telephone no.: (209) 836-1286 Landline (209) 814-0139 Cellular

20662 San Jose RD	Tracy	CA	95304
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

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Dairy Monitoring Co

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	167	0	0	0	0
Number under roof	1,029	0	0	0	0	0
Maximum number	1,029	167	0	0	0	0
Average number	1,028	166	0	0	0	0
Avg live weight (lbs)	1,400	1,500	0	0		

Predominant milk cow breed: Holstein

Average milk production: 68 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 28,585.65 *tons per reporting period*

Total nitrogen from manure: 371,910.89 *lbs per reporting period* After ammonia losses (30% loss applied): 260,337.62 *lbs per reporting period*

Total phosphorus from manure: 61,786.46 *lbs per reporting period*

Total potassium from manure: 195,520.69 *lbs per reporting period*

Total salt from manure: 522,205.50 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: _____ *gallons*

Total nitrogen generated: _____ *lbs*

Total phosphorus generated: _____ *lbs*

Total potassium generated: _____ *lbs*

Total salt generated: _____ *lbs*

	0 *gallons applied*
+	0 *gallons exported*
-	0 *gallons imported*
=	0 *gallons generated*

D. IRRIGATION SOURCES

Irrigation Source Name	Type
Canal	Surface water

E. NUTRIENT IMPORTS

No nutrient imports entered.

F. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	Total N (%)	Total P (%)	K (%)	Total Salt (%)
10/01/2011	Corral solids	1,000.00 *ton*	As-is	30.8		2.270000	0.820000	3.130000	0.000000
11/16/2011	Corral solids	1,275.00 *ton*	Dry-weight	30.8		2.270000	0.820000	3.130000	0.000000

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	85,456.42	30,794.43	117,831.98	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	85,456.42	30,794.43	117,831.98	0.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
#1	36	30	1	manure	0209-0290-0006-0000
#2	12	12	0	none	0209-0300-0018-0000
#3	85	85	0	none	0209-0300-0018-0000
#4	80	80	1	manure	0209-0290-0003-0000
#6	118	118	1	manure	0209-0300-0016-0000
#8	97	97	1	manure	0212-0090-0001-0000
Land application area totals	428	422	4		

B. CROPS AND HARVESTS

#1

Field name: #1

11/01/2010: Winter Forage 11/01/2010

Crop: 11/01/2010: Winter Forage Acres planted: 30 Plant date: 11/01/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
05/20/2011	450.00 *ton*	Dry-weight		66.6	0.740000	0.310000	2.190000	10.800000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.00	74.15	31.36	219.44	1,082.16

#4

#4

Field name: #4

01/01/2011: Winter Forage — 01/01/2011

Crop: 01/01/2011: Winter Forage — Acres planted: 80 Plant date: 01/01/2011

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
05/20/2011	1,200.00 *ton*	Dry-weight		68.4	0.850000	0.250000	2.270000	10.100000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.00	80.58	23.98	215.20	957.48

#6

Field name: #6

11/01/2010: Winter Forage — 11/01/2010

Crop: 11/01/2010: Winter Forage — Acres planted: 118 Plant date: 11/01/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
05/20/2011	1,770.00 *ton*	Dry-weight		66.3	0.760000	0.260000	2.030000	12.400000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.00	76.84	26.69	205.23	1,253.64

#8

Field name: #8

#8

01/01/2011: Winter Forage 01/01/2011

Crop: 01/01/2011: Winter Forage Acres planted: 97 Plant date: 01/01/2011

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
05/20/2011	1,455.00 *ton*	Dry-weight		69.3	0.870000	0.270000	2.380000	10.500000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	15.00	80.13	25.14	219.20	967.05

NUTRIENT BUDGET

A. LAND APPLICATIONS

#1 - 11/01/2010: Winter Forage

Field name: #1

Crop: Winter Forage Plant date: 11/01/2010

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
01/28/2009	Soil	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
1/28/2009	Existing soil nutrient content	0.00	1,000.00	0.00	0.00	
Application event totals		0.00	1,000.00	0.00	0.00	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
10/15/2010	Broadcast/incorporate	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
10/15/2010	Corral solids	86.90	22.77	107.80	2,555.67	55.00 *ton*
Application event totals		86.90	22.77	107.80	2,555.67	

#4 - 01/01/2011: Winter Forage

Field name: #4

Crop: Winter Forage Plant date: 01/01/2011

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

#4 - 01/01/2011: Winter Forage

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
01/28/2009	Soil	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
1/28/2009	Existing soil nutrient content	0.00	1,000.00	0.00	0.00	
Application event totals		0.00	1,000.00	0.00	0.00	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
10/15/2010	Broadcast/incorporate	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
10/15/2010	Corral solids	97.76	25.62	121.28	2,875.13	165.00 *ton*
Application event totals		97.76	25.62	121.28	2,875.13	

#6 - 11/01/2010: Winter Forage

Field name: #6

Crop: Winter Forage Plant date: 11/01/2010

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
01/28/2009	Soil	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
1/28/2009	Existing soil nutrient content	0.00	1,000.00	0.00	0.00	
Application event totals		0.00	1,000.00	0.00	0.00	

#6 - 11/01/2010: Winter Forage

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
10/15/2010	Broadcast/incorporate	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
10/15/2010	Corral solids	90.38	23.68	112.12	2,658.05	225.00 *ton*
Application event totals		90.38	23.68	112.12	2,658.05	

#8 - 01/01/2011: Winter Forage

Field name: #8

Crop: Winter Forage Plant date: 01/01/2011

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
01/28/2009	Soil	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
1/28/2009	Existing soil nutrient content	0.00	1,000.00	0.00	0.00	
Application event totals		0.00	1,000.00	0.00	0.00	

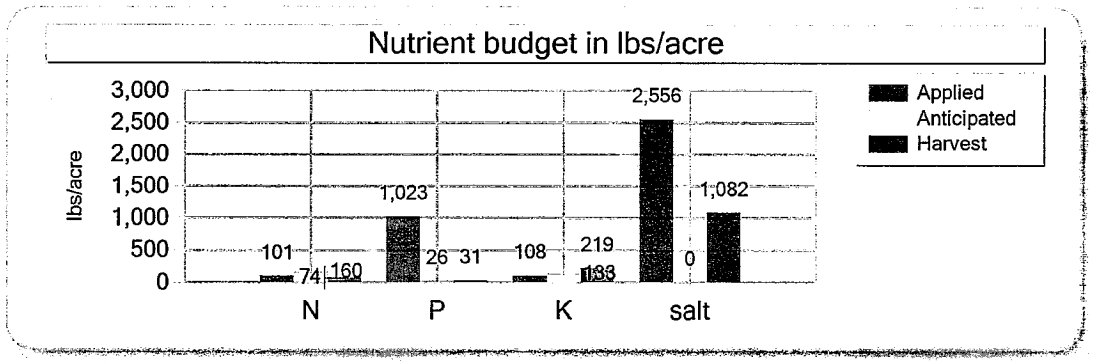
10/15/2010	Broadcast/incorporate	Overcast	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
10/15/2010	Corral solids	97.73	25.61	121.24	2,874.23	200.00 *ton*
Application event totals		97.73	25.61	121.24	2,874.23	

B. NUTRIENT BUDGET

#1 - 11/01/2010: Winter Forage

Field name: #1 Crop: Winter Forage Plant date: 11/01/2010



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	1,000.00	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	86.90	22.77	107.80	2,555.67
Process wastewater	0.00	0.00	0.00	0.00
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	100.90	1,022.77	107.80	2,555.67
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	74.15	31.36	219.44	1,082.16
Nutrient balance	26.75	991.41	-111.64	1,473.51
Applied to removed ratio	1.36	32.61	0.49	2.36

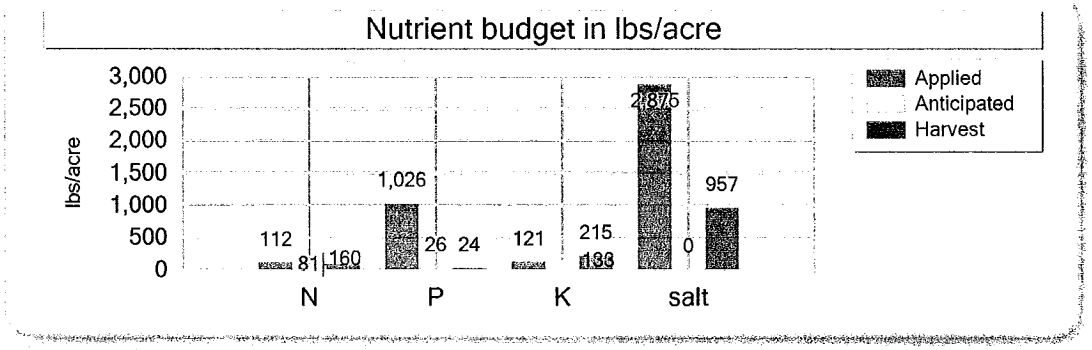
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

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

Total harvests for the crop
1 *harvests*

#4 - 01/01/2011: Winter Forage

Field name: #4 Crop: Winter Forage Plant date: 01/01/2011



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	1,000.00	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	97.76	25.62	121.28	2,875.13
Process wastewater	0.00	0.00	0.00	0.00
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	111.76	1,025.62	121.28	2,875.13
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	80.58	23.98	215.20	957.48
Nutrient balance	31.18	1,001.63	-93.92	1,917.65
Applied to removed ratio	1.39	42.76	0.56	3.00

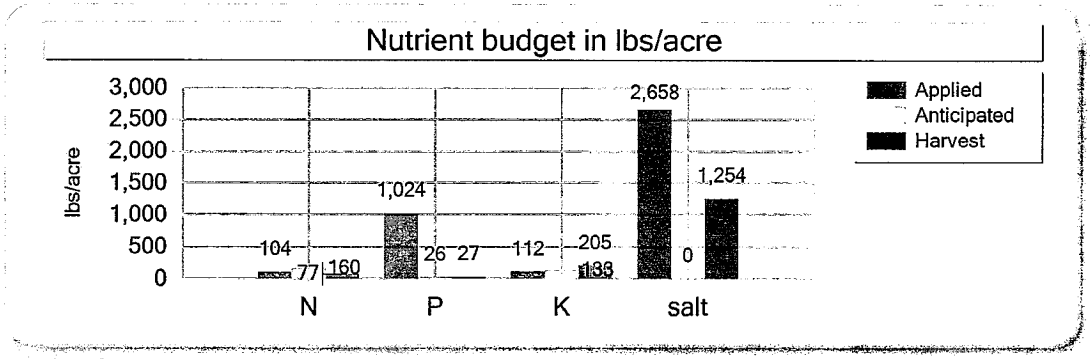
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

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

Total harvests for the crop
1 *harvests*

#6 - 11/01/2010: Winter Forage

Field name: #6 Crop: Winter Forage Plant date: 11/01/2010



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	1,000.00	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	90.38	23.68	112.12	2,658.05
Process wastewater	0.00	0.00	0.00	0.00
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	104.38	1,023.68	112.12	2,658.05
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	76.84	26.69	205.23	1,253.64
Nutrient balance	27.55	996.99	-93.11	1,404.41
Applied to removed ratio	1.36	38.35	0.55	2.12

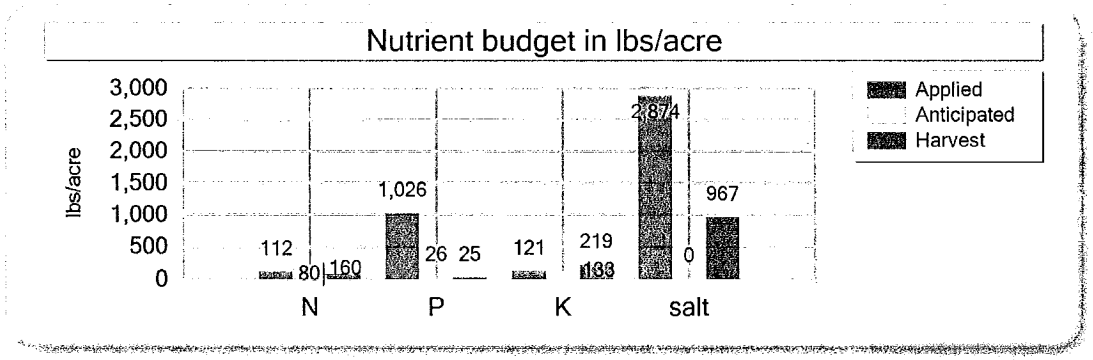
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

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

Total harvests for the crop
1 *harvests*

#8 - 01/01/2011: Winter Forage

Field name: #8 Crop: Winter Forage Plant date: 01/01/2011



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	1,000.00	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	97.73	25.61	121.24	2,874.23
Process wastewater	0.00	0.00	0.00	0.00
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	111.73	1,025.61	121.24	2,874.23
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	80.13	25.14	219.20	967.05
Nutrient balance	31.60	1,000.46	-97.96	1,907.18
Applied to removed ratio	1.39	40.79	0.55	2.97

Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

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

Total harvests for the crop
1 *harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

Solid Manure

Sample and source description: Solid Manure

Sample date: 05/04/2011 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Density: _____ *lbs/cu ft* Moisture: 18.2 %

	Total N (%)	Total P (%)	K (%)	Calcium (%)	Magnesium (%)	Sodium (%)	Bicarbonate (%)	Carbonate (%)	Sulfate (%)	Chloride (%)	Total salt (%)
Value	2.370000	0.620000	2.940000	2.180000	1.010000	0.580000				1.270000	69.700000
DL	0.100000	0.100000	0.100000	0.010000	0.020000	0.010000				0.000000	0.000000

Manure

Sample and source description: Manure

Sample date: 07/29/2011 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Density: _____ *lbs/cu ft* Moisture: 30.8 %

	Total N (%)	Total P (%)	K (%)	Calcium (%)	Magnesium (%)	Sodium (%)	Bicarbonate (%)	Carbonate (%)	Sulfate (%)	Chloride (%)	Total salt (%)
Value	2.270000	0.820000	3.130000								
DL	0.100000	0.100000	0.100000								

B. PROCESS WASTEWATER ANALYSES

Lagoon

Sample and source description: Lagoon

Sample date: 03/14/2011 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	616.00	294.00		20.00	905.00	229.00	151.00	309.00				571.00	7,390.00
DL	0.50	0.50		0.50	2.00	0.50	1.00	0.50				0.10	1.00

Lagoon

Sample and source description: Lagoon

Sample date: 05/03/2011 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	498.00	204.00		78.20	710.00								4,330.00
DL	0.50	0.50		0.50	2.00								1.00

Lagoon

Sample and source description: Lagoon

Sample date: 07/05/2011 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	1,506.00	423.00		254.00	1,780.00								13,210.00
DL	0.50	0.50		0.50	2.00								1.00

Lagoon

Sample and source description: Lagoon

Sample date: 07/29/2011 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	426.00	182.00		62.50	493.00								
DL	0.50	0.50		0.50	2.00								

C. IRRIGATION WATER ANALYSES

Canal

H6 Canal

Sample description: H6 Canal

Sample date: 05/02/2011 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.93	98.00
DL	0.50	0.10

D. SOIL ANALYSES

#1

#1

Soil

Sample and source description: Soil

Sample date: 01/28/2009 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	Total salt (mg/kg)	Organic matter (%)
Value		660.00				
DL		0.50				

#2

Soil

Sample and source description: Soil

Sample date: 01/28/2009 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	Total salt (mg/kg)	Organic matter (%)
Value		770.00				
DL		0.50				

#3

#3

Soil

Sample and source description: Soil

Sample date: 01/28/2009 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	Total salt (mg/kg)	Organic matter (%)
Value		730.00				
DL		0.50				

#4

Soil

Sample and source description: Soil

Sample date: 01/28/2009 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	Total salt (mg/kg)	Organic matter (%)
Value		1,360.00				
DL		0.50				

#6

#6

Soil

Sample and source description: Soil

Sample date: 01/28/2009 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	Total salt (mg/kg)	Organic matter (%)
Value		1,250.00				
DL		0.50				

#8

Soil

Sample and source description: Soil

Sample date: 01/28/2009 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	Total salt (mg/kg)	Organic matter (%)
Value		730.00				
DL		0.50				

E. PLANT TISSUE ANALYSES

#1 - 11/01/2010: Winter Forage

#1 - 11/01/2010: Winter Forage

#1

Sample and source description: #1

Sample date: 05/12/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 66.6 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	0.740000	0.310000	2.190000	10.800000
DL	0.100000	0.100000	0.100000	0.100000

#4 - 01/01/2011: Winter Forage

#4

Sample and source description: #4

Sample date: 05/12/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 68.4 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	0.850000	0.250000	2.270000	10.100000
DL	0.100000	0.100000	0.100000	0.100000

#4 - 01/01/2011: Winter Forage

#4

Sample and source description: #4

Sample date: 05/12/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 63.3 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	0.730000	0.280000	2.080000	8.760000
DL	0.100000	0.100000	0.100000	0.100000

#6 - 11/01/2010: Winter Forage

#6

Sample and source description: #6

Sample date: 05/12/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 66.3 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	0.760000	0.260000	2.030000	12.400000
DL	0.100000	0.100000	0.100000	0.100000

#6 - 11/01/2010: Winter Forage

#6

Sample and source description: #6

Sample date: 05/12/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 65.9 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	0.680000	0.290000	2.130000	11.700000
DL	0.100000	0.100000	0.100000	0.100000

#8 - 01/01/2011: Winter Forage

#8

Sample and source description: #8

Sample date: 05/12/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 69.3 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	0.870000	0.270000	2.380000	10.500000
DL	0.100000	0.100000	0.100000	0.100000

#8 - 01/01/2011: Winter Forage

#8

Sample and source description: #8

Sample date: 05/12/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 66.6 %

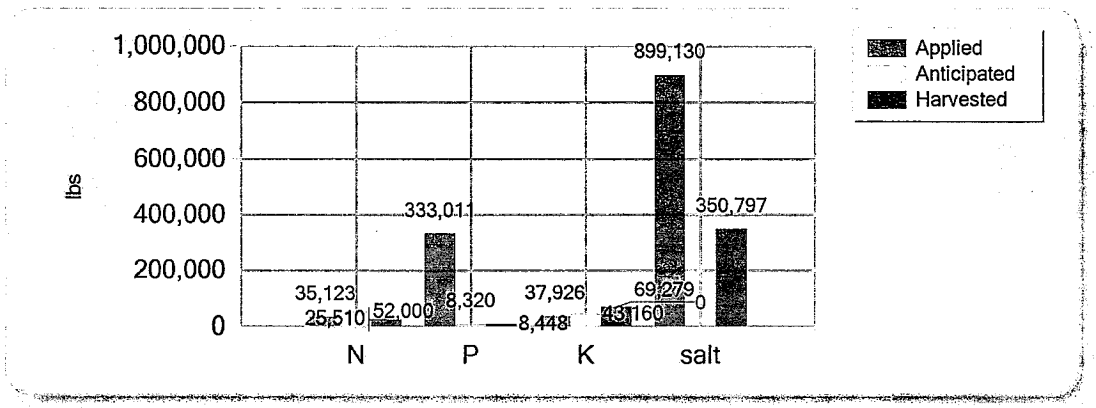
	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	0.640000	0.240000	1.920000	10.600000
DL	0.100000	0.100000	0.100000	0.100000

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

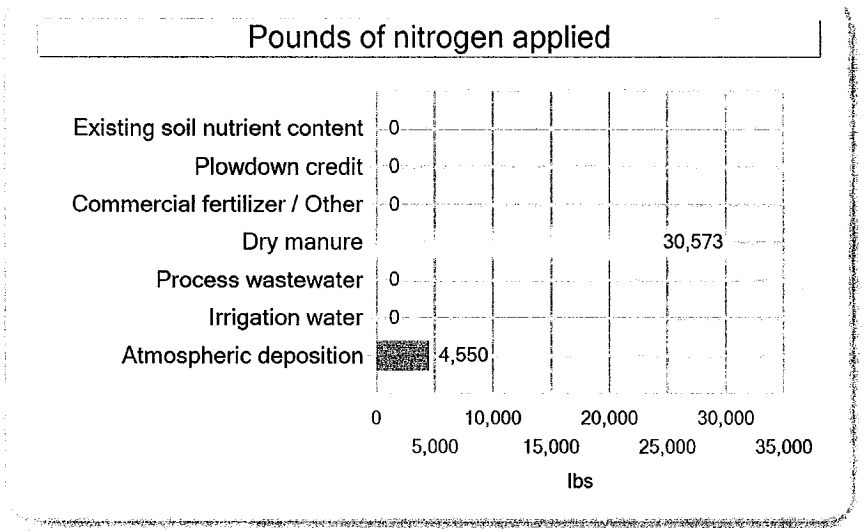
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

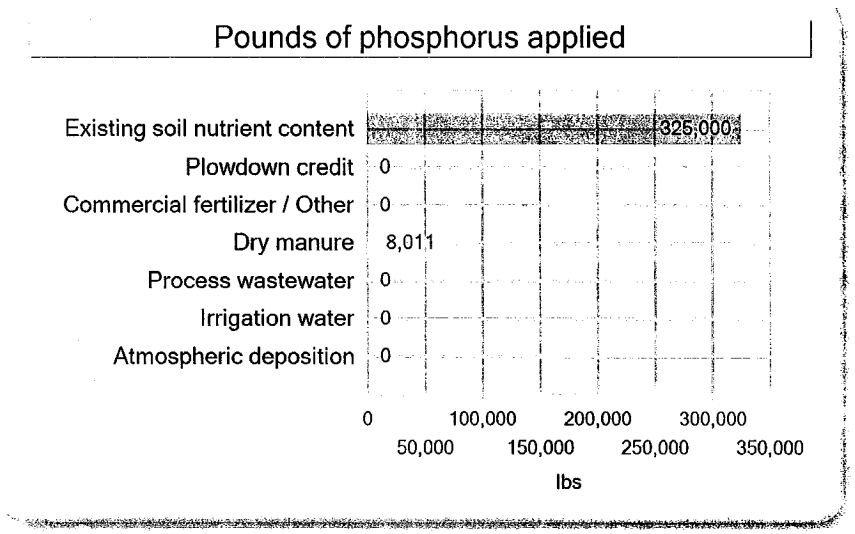
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	325,000.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	30,573.00	8,010.90	37,926.00	899,130.00
Process wastewater	0.00	0.00	0.00	0.00
Irrigation water	0.00	0.00	0.00	0.00
Atmospheric deposition	4,550.00	0.00	0.00	0.00
Total nutrients applied	35,123.00	333,010.90	37,926.00	899,130.00
Anticipated crop nutrient removal	52,000.00	8,320.00	43,160.00	0.00
Actual crop nutrient removal	25,509.81	8,448.00	69,278.52	350,796.57
Nutrient balance	9,613.19	324,562.90	-31,352.52	548,333.43
Applied to removed ratio	1.38	39.42	0.55	2.56

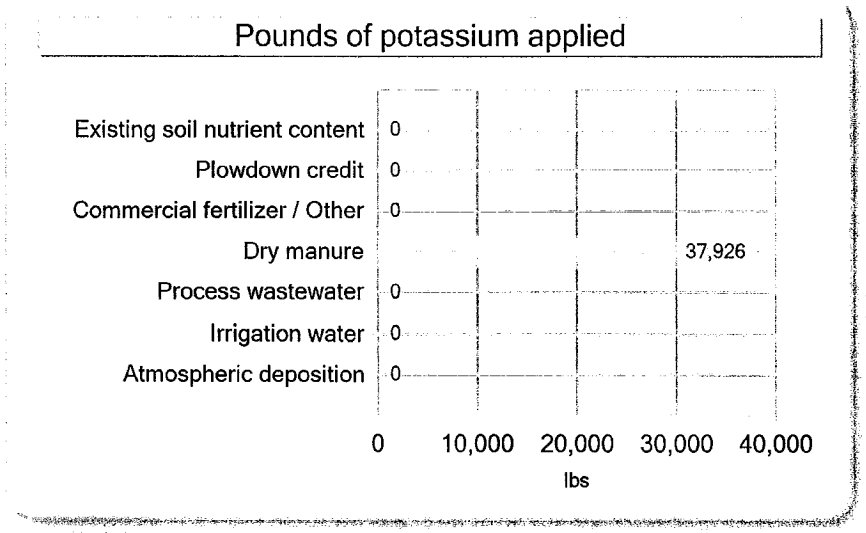
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

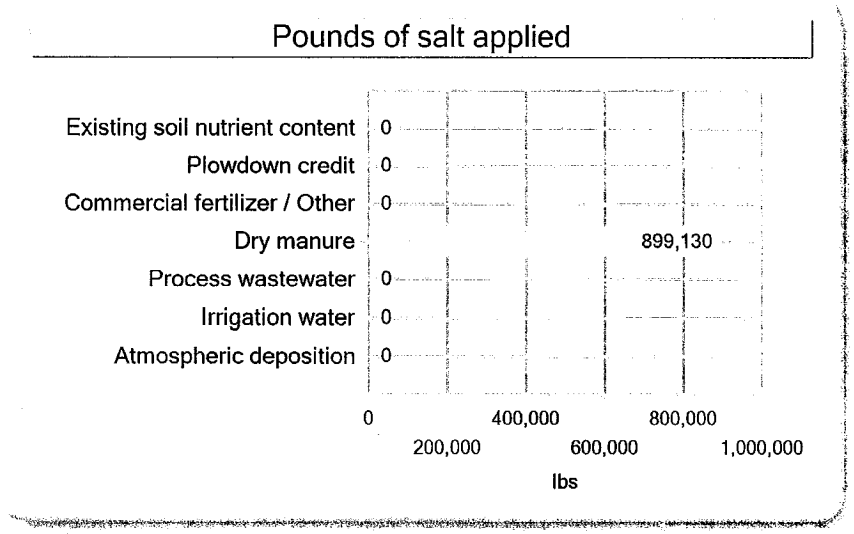


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









EXCEPTION REPORTING

A. MANURE AND PROCESS WASTEWATER 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 STATEMENT

A. NUTRIENT MANAGEMENT PLAN STATEMENT

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

ADDITIONAL NOTES

A. NOTES

*Soil P content is greater than 1,000, Software limit is 1,000.

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.

X Henry Tosta	Henry Tosta
SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Henry Tosta	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
✓ 6-19-12	6-19-12
DATE	DATE

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment	N/A
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	See Attached
Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.	

Written Agreements	N/A
Provide copies of all written agreements with each third party that receives solid manure or process wastewater from the Discharger for its own use.	

Corrective Actions Documents	N/A
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	N/A
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	N/A
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.	

ATTACHMENT D

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Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

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

Operator Information:

Name of Operator: Henry Tosta

Name of Dairy Facility: Henry Tosta Dairy

Facility Address:	20662 San Jose Rd.	Tracy	95304
	Number and Street	City	Zip Code

Contact Person Name and Phone Number:	Henry Tosta	(209) 836-1286
	Name	Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Arnardo's Bros.

Address of Hauling Company/Person:	17100 Tracy Blvd.	Tracy	95376
	Number and Street	City	Zip Code

Contact Person:	Anthony Enos	(209) 483-0350
	Name	Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) (please circle one)

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

Arnado Bros.	17100 Tracy Blvd.	Tracy	95376	(209) 483-0350
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Anthony Enos	Grimes Rd.	Tracy	95304	(209) 483-0350
Name	Number and Street	City	Zip Code	Phone Number

Dates Hauled: Oct, 2011

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 1,000 Tons

Manure Solids Content (if amount reported in tons): solids

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: Weighed Trucks

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: n/a Gallons

Method used to determine volume of process wastewater: n/a

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

[ ] Yes [X] No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any proces wastewater transferrred after **31 December 2007** to such party.

HT (Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: X Henry Tosta Date: 6-19-12

Hauler's Signature: X REFUSES TO SIGN Date:

ATTACHMENT D

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12 JUN 28 PM 12:49

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

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

Operator Information:

Name of Operator: Henry Tosta

Name of Dairy Facility: Henry Tosta Dairy

Facility Address: 20662 San Jose Rd. (Number and Street) | Tracy (City) | 95304 (Zip Code)

Contact Person Name and Phone Number: Henry Tosta (Name) | (209) 836-1286 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Genasci Hay & Chopping

Address of Hauling Company/Person: 3443 Jackson Rd (Number and Street) | Modesto (City) | 95358 (Zip Code)

Contact Person: Tom Genasci (Name) | (209) 652-8077 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) (please circle one)

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

Name	Number and Street	City	Zip Code	Phone Number
Joe Henriques	8255 Maze Blvd	Modesto	95358	(209) 6023893

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Name	Number and Street	City	Zip Code	Phone Number
	San Jose Rd & Lamers	Tracy	95304	

Dates Hauled: 16-Nov-11

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 1,275 Tons

Manure Solids Content (if amount reported in tons): solids

Manure Density (if amount reported in cubic yards):

Attachment D
Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

Method used to determine amount of manure: Weighed Trucks

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: n/a Gallons

Method used to determine volume of process wastewater: n/a

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

☐ Yes ☒ No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any proces wastewater transferred after 31 December 2007 to such party.

HT (Operator shall provide initials here to acknowledge this requirement).

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

Operator's Signature: X Henry Dosty Date: 6/14/12

Hauler's Signature: * X [signature] * Date: 6-1-12

DENELE ANALYTICAL, INC.

1232 South Ave. • Turlock, CA 95380 • Ph. (209) 634-9055 • Fax (209) 634-9057 • www.denelelab.com

DAIRY COMPLIANCE ANALYSIS REPORT

Customer/Bill To*
Dairy Monitoring Co.
PO Box 1440
Ripon, CA
95366

Grower
Tosta Dairy

PURCHASE ORDER: NA
RECEIVED DATE: 9/2/2011 10:44:30 AM
SUBMITTED BY: Jim Avila
ANALYZED DATE: 09/03/2011

Domestic / Ag Wells (H1)
SOURCE: Well Water

Customer Sample	Lab ID	Analyte	Method Ref	Amount	Units
Domestic Well	11090044A	Electrical Conductivity	EPA 120.1	0.837	mmhos/cm
		Nitrate Nitrogen	EPA 300.0	1.76	mg/L
		Ammonium Nitrogen	SM 4500-NH3 C	< 0.50	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Nitrate Nitrogen (NO3-N)	98.8	103	106	1.3
Ammonium Nitrogen (NH4-N)	100	96.2	93.8	2.4

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, expressed or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

DENELE ANALYTICAL, INC.

1232 SOUTH AVENUE
TURLOCK, CA 95380
PH# 209-634-9055 FAX# 209-634-9057

DAIRY COMPLIANCE

Client: **Dairy Monitoring Co**
Mailing address: **PO Box 1440 Ripon, CA 95366**
Phone#: **209-599-4955, Fax 209-599-4911**

Authorized Copy Released To:

Sampled By: Jim Avila
Project ID: Tosta Diary # 179

ANALYSIS TO BE COMPLETED:

IRRIGATION/GROUND WATER
- **H1** EC*, NO3-N, NH4-N*
- **H6** EC, TN, TDS
- **H7** Combination of H1 & H6
- **H14** EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb Carb, SO4, Cl, TDS

PROCESS WASTE WATER
- **H3** EC*, NH4-N, TKN, TP, K, TDS
- **H4** EC*, NO3-N, NH4-N, TKN, TP, K, TDS
- **H5** Ca, Mg, Na, Bicarb, Carb, SO4, Cl
- **H8** Combination of H3 &H5
- **H9** Combination of H4 &H5

TILE DRAIN
- **H2** EC*, NO3-N, TP, NH4-N*, TDS

** Required Field Measurement*

___ (Check here if performed)

DISCHARGE WATER
- **E1** EC*, Temp*, pH*, NO3-N, NH3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*, BOD 5, TSS, Total & Fecal Coliforms
- **E2** EC,* Temp*, pH*, NO3-N, NH3-N*, NH4-N*, Turbidity, TP, Dissolved Oxygen*, Total & Fecal Coliforms
- **E3** EC*, Temp*, pH*, NO3-N, NH3-N*, NH4-N*, TP, Total & Fecal Coliforms
- **E4** EC*, Temp*, pH*, NO3-N, NH3-N*, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE
- **M1** % Moisture
- **M3** TN TP, K, % Moisture
- **M4** Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash
- **M7** Combination of M3 & M4

PLANT TISSUE
- **F18** % Moisture, Ash, TN, P, K, DM and as received
- **F18+** % Moisture, Ash, TN, P, K, DM and as received (Package also includes NIR DCAD)
- **F19+** % Moisture, TN (Package includes complete plant tissue analysis)

SOIL
- **K3** Soluble Phosphorus
- **K4** 1ft NO3, Organic Matter
- **K5** Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)
- **K6** 0-1ft EC, NO3, Soluble P, K, Organic Matter
- **K7** Combination of K3 & K4
- **K8** Combination of K3 & K5

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis H1	H3	M3	F18	OTHER
A 1	9/1/2011	noon	Domestic Well		10.6°		H1				
2											
3											
4											
5											
6											
7											
8											
9											
10											

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st		Dairy Monitoring Co.	[redacted]	9-2-11 10:30
2nd		Denele Analytical, Inc.	9-2-11 10:30	[redacted]

(LABORATORY USE ONLY)

Logged in By: RP

LABORATORY NUMBER 1109004-4

CALIFORNIA DAIRY Quality Assurance PROGRAM

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CDQAP – WDR General Order Reference Binder TAB 6.28, May 2012

CERTIFICATION OF NUTRIENT MANAGEMENT PLAN IMPLEMENTATION

Waste Discharge Requirements General Order No. R5-2007-0035 for Existing Milk Cow Dairies (General Order) requires owners and operators of existing milk cow dairies (Dischargers) to develop and implement a Nutrient Management Plan for their land application areas (land under control of the Discharger, whether it is owned, rented, or leased, to which manure or process wastewater from the production area is or may be applied for nutrient cycling). The Discharger is required to maintain the NMP at the dairy, make the NMP available to Central Valley Water Board staff during their inspections, and submit the NMP to the Executive Officer upon request.

The General Order required the Discharger to submit three Statements of Completion during development of the NMP. The Discharger may use this form to comply with the General Order requirement to certify implementation of the Nutrient Management Plan. Both the owner and operator of the dairy must sign this form in Part III below.

PART I: DAIRY FACILITY INFORMATION

Name of Dairy Facility: Tosta Dairy

Physical Address of Dairy Facility:

20662 San Jose Rd	Tracy	San Joaquin	95304
Number and Street	City	County	Zip Code

Name of Operator: Henry Tosta Phone Number: (209) 836-1286

Operator Mailing Address:

20662 San Jose Rd	Tracy	San Joaquin	95304
Number and Street	City	County	Zip Code

Name of Owner: Henry Tosta Phone Number: (209) 814-0139

Owner Mailing Address:

20662 San Jose Rd	Tracy	San Joaquin	95304
Number and Street	City	County	Zip Code

Part II: Components of the Nutrient Management Plan already completed by the dairy:

Item I.B Land Application Information- A map including the information in item 1. A.1, and 1.B, (7/1/08) and I.A.2 (7/1/09).

Item I.C Land Application Information – Copies of written third-party process wastewater agreements (7/1/08).

Item I.D Land Application Information – Identification of fields under the control of the discharger within five miles of the dairy where neither process wastewater nor manure is applied (7/1/08).

Item II Sampling and Analysis Plan certified by a Certified Nutrient Management Specialist (7/1/08).

Item III (Nutrient Budget) – Established planned rates of nutrient applications by crop based on nutrient monitoring results for each land application area—certified by a Certified Nutrient Management Specialist (7/1/09).

Item IV Setbacks, Buffers, and Other Alternatives to Protect Surface Water- Identification of all potential surface waters or conduits to surface waters within 100 feet of land application areas and appropriate protection (7/1/08).

Item V of Attachment C Field Risk Assessment (12/31/08).

Item VI (Record-Keeping Requirements –Identification of monitoring records that will be maintained as required in the production & land application areas (7/1/08).

PART III: CERTIFICATION STATEMENT

By signing this document the owner and operator hereby certify that appropriate infrastructure and management practices

☑ are in place

☐ are not in place

to manage farm applications of nutrients (solid and liquid manure, irrigation water, fertilizer, etc.) as specified in the facility's Nutrient Budget and Sampling and Analysis Plan.

If the infrastructure is not in place, explain:

_____

_____

_____

_____

_____

_____

I certify under penalty of law that I have infrastructure and management practices in place to completely implement my Nutrient Management Plan. ***I have personally examined and am familiar with the information submitted previously and have completely implemented my Nutrient Management Plan.*** *I believe this 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.*

X Henry Tosta	Henry Tosta
SIGNATURE OF OWNER	SIGNATURE OF OPERATOR
Henry Tosta	Same as Owner
PRINT OR TYPE NAME	PRINT OR TYPE NAME
✓ 6-19-12	6-19-12
DATE	DATE