Livingston Dairy Consulting, Inc.

1635 E. Propserity Ave., Ste B, Tulare
559-687-1440

LegenDairy Farms WDID 5D545147N01
14685 Road 96 Tipton, CA 93272

X	Annual Report
X	Water Analysis Samples
N/A	Manure Manifest
N/A	Facility / Land Map
N/A	CCA Nitrogen Retrofit Report

GEO Tracker Confirmation # **Date:**

Facility Info

Reporting Period: 1/1/2023 to 12/31/2023

Name of the Facility

Dairy Name: LegenDairy Farms WDID 5D545147N01

Facility Address: 14685 Road 96 Tipton, CA 93272

Original Operation Date: 12/6/1990

Facility APN's: x228 x250 x005 xxxx

RWQCB Basin Plan Designation: Tulare Lake Basin

☐ Check if any information has changed

Owner(s)

Owner(s) Name: Gary & Victoria Fernandes

Mailing Address: P.O. Box 967 Tipton, CA 93272

Home Phone Number:

Cell Phone Number: 559-308-0696

☐ Check if any information has changed

Operator(s)

Operator(s) Name: Same as owner

Mailing Address:

Home Phone Number:

Cell Phone Number:

☐ Check if any information has changed

Herd Information

	Milk Cows	Dry Cows	Bred Heifers (12-24 mo)	Heifers (3-12 mo)	Calves (0-3 mo)
Open Confinement:	-	190	358	-	-
Number Under Roof	1,414	-	-	-	-
Maximum Number	1,414	190	358		
Average Number	1,414	190	358		
Average Live Weight (lbs)	950	975	660		

Average Milk Production: 67

Predominant Milk Cow Breed: Jersey

Manure Generated:

Total manure excreted by the herd:	1,987.83	@40% Moisture	*ton/yr*
Total nitrogen from manure:	128,446		*lbs*
	13,916		*lbs*
	62,328		*lbs*
Total salt from manure:	-		*lbs*

After Ammonia (30% loss applied)

89,912 *lbs per reporting period*

Process Wastewater Generated:

Process wastewater generated:	20,644,400	*gal*
Total nitrogen generated:	110,757	*lbs*
	30,825	*lbs*
	144,835	*lbs*
Total salt (TDS) generated:	1,100,388	*lbs*

List of Land Application Areas

Field Name	APN	APN Acres	Cropable Acres	Total Harvest	Type of Waste Applied
6-T1	x228 x200 x004 xxxx	76.84	76	8	N/A
6-T2 (TREES)	x228 x200 x003 xxxx	77	75	0	N/A
6-T3	x228 x200 x005 xxxx	81.79	81	2	P.W. & D.M.
6-T4	x228 x200 x005 xxxx	67.59	67	2	P.W. & D.M.
7-T5	x228 x250 x011 xxxx	92.92	88	2	P.W. & D.M.
7-T7	x228 x250 x004 xxxx	75.21	70	8	N/A
Total Crop Acres			457.00		

List of Fresh Water Sources

Source Description	Type	Subsurface (Tile) Drainage Sources
Barn	**Ground Water**	**No**
Back Up Dairy	**Ground Water**	**No**
Dom #1	**Ground Water**	**No**
1	**Ground Water**	**No**
2 (OLD)	**Ground Water**	**No**
3	**Ground Water**	**No**
4	**Ground Water**	**No**
2 New	**Ground Water**	**No**
5	**Ground Water**	**No**
Canal	**Surface Water**	**No**

(WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	**Crop**	**Moist %**	**N%**	**TP %**	**TK%**	**Salt**	**TFS**	**Sample #:**	**Date:**	**Source**
6-T1	Alfalfa	8.50	2.80	0.20	2.59	-	10.40	9-14H65434	09/14/23	Valley Tech
6-T2 (TREES)	Trees, Pistachios	-	2.81	0.42	3.09	-	-	Book Value		-
6-T3	Wheat, Silage	59.00	0.61	0.14	0.97	-	9.48	6-2H52141	06/02/23	Valley Tech
6-T4	Wheat, Silage	53.90	0.65	0.17	1.05	-	8.40	6-2H52141	06/02/23	Valley Tech
7-T5	Wheat, Silage	60.20	0.60	0.16	1.07	-	9.82	6-2H52141	06/02/23	Valley Tech
7-T7	Alfalfa	9.50	2.29	0.17	2.70	-	10.80	9-14H65434	09/14/23	Valley Tech

Detectable Lim	*Valley Tech*	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
	Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*
Detectable Limits						
Valley Tech		*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle		*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	**Crop**	**Moist %**	**N%**	**TP %**	**TK%**	**Salt**	**TFS**	**Sample #:**	**Date:**	**Source**
6-T1	Alfalfa	-	-	-	-	-	-	See Winter		-
6-T2 (TREES)	Trees, Pistachios	-	-	-	-	-	-	Trees		-
6-T3	Corn, Silage	71.00	0.33	0.06	0.45	-	6.85	11-1H71438	11/01/23	Valley Tech
6-T4	Corn, Silage	67.90	0.40	0.06	0.35	-	5.66	10-19H70001	10/19/23	Valley Tech
7-T5	Corn, Silage	69.10	0.47	0.09	0.44	-	6.15	10-12H69352	10/12/23	Valley Tech
7-T7	Alfalfa	-	-	-	-	-	-	See Winter		-

Detectable Limits					
Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
6-T1	Alfalfa	1/1/19	11/1/22	9-14H65434	8.50	2.80	0.20	2.59	-	10.40	Dry Weight
6-T2 (TREES)	Trees, Pistachios	1/1/16	11/1/23	Book Value	-	2.81	0.42	3.09	-	-	Dry Weight
6-T3	Wheat, Silage	11/15/23	5/28/23	6-2H52141	59.00	0.61	0.14	0.97	-	9.48	Dry Weight
6-T4	Wheat, Silage	10/30/22	5/15/23	6-2H52141	53.90	0.65	0.17	1.05	-	8.40	Dry Weight
7-T5	Wheat, Silage	11/10/22	5/20/23	6-2H52141	60.20	0.60	0.16	1.07	-	9.82	Dry Weight
7-T7	Alfalfa	1/1/19	11/1/23	9-14H65434	9.50	2.29	0.17	2.70	-	10.80	Dry Weight

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*	
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*	

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
6-T1	Alfalfa			See Winter	-	-	-	-	-	-	
6-T2 (TREES)	Trees, Pistachios			Trees	-	-	-	-	-	-	
6-T3	Corn, Silage	7/4/23	10/23/23	11-1H71438	71.00	0.33	0.06	0.45	-	6.85	Dry Weight
6-T4	Corn, Silage	7/1/23	10/1/23	10-19H70001	67.90	0.40	0.06	0.35	-	5.66	Dry Weight
7-T5	Corn, Silage	6/27/23	10/18/23	10-12H69352	69.10	0.47	0.09	0.44	-	6.15	Dry Weight
7-T7	Alfalfa			See Winter	-	-	-	-	-	-	

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*	
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*	

Well / Canal Analysis

General Minerals

Well Name/Number	NO3-N (mg/L)	EC (umhos/cm)	TDS (mg/L)	NH4-N (mg/L)	TN (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	HCO3 (mg/L)	CO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	Lab #:	Date:	LAB
Barn	16.30	249	170	-	16.30	-	-	-	-	-	-	-	VI 2340555	1/31/2023	FGL Enviromental
Back Up Dairy	0.01	251	200	-	0.01	-	-	-	-	-	-	-	VI 2340555	1/31/2023	FGL Enviromental
Dom #1	0.40	990	580	-	0.01	-	-	-	-	-	-	-	VI 2340555	1/31/2023	FGL Enviromental
1	-	-	-	-	-	-	-	-	-	-	-	-	Canal		
2 (OLD)	-	-	-	-	-	-	-	-	-	-	-	-	Non-Op		
3	0.50	234	140	-	0.50	-	-	-	-	-	-	-	VI 2344106	7/6/2023	FGL Enviromental
4	-	-	-	-	-	-	-	-	-	-	-	-	Canal		
2 New	1.50	253	160	-	1.50	-	-	-	-	-	-	-	VI 2344715	7/20/2023	FGL Enviromental
5	0.60	274	210	-	0.60	-	-	-	-	-	-	-	VI 2344106	7/6/2023	FGL Enviromental
Canal	0.01	138	37	-	-	-	-	-	-	-	-	-	558TRA144	7/18/2023	Other

Detectable Limits												
Dellavalle	*0.01*	*1*	*10*	*0.2*	*NR*	*0.1*	*0.1*	*0.15*	*3*	*0.9*	*0.03*	*0.03*
FGL Enviromental	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Valley Tech	*0.1*	*1*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*

Soil Analysis (Winter)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
6-T1	5.4	3.70	15.70	142.00	0.62	2.72	04-19S46948	04/19/23	Valley Tech
6-T2 (TREES)	0.01	-	6.70	8.00	1.77	2.10	04-17S46695	04/17/23	Valley Tech
6-T3	-	-	-	-	-	-			-
6-T4	-	-	-	-	-	-			-
7-T5	-	-	-	-	-	-			-
7-T7	5.0	2.70	97.30	1,290.00	0.68	3.41	04-19S46948	04/19/23	Valley Tech

Detectable Limits

Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Soil Analysis (Summer)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
6-T1	-	-	-	-	-	-			-
6-T2 (TREES)	-	-	-	-	-	-			-
6-T3	-	-	-	-	-	-			-
6-T4	-	-	-	-	-	-			-
7-T5	-	-	-	-	-	-			-
7-T7	-	-	-	-	-	-			-

Detectable Limits

Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Nutrient Import & Export

Nutrient Export-Did you sell, give away or otherwise remove slurry, process water or dry manure from your property?

X No

___ Yes, Manifest attached (Attachment D)

Total Dry Manure Exported

Nutrient Import

No Dry manure nutient imports entered

No Process wastewater nutrient imports entered

Total Process Water Exported

No Commerical or other nutrient imports entered

Field Name	Type of Manure Applied	As Is / Dry Weight	Source

Process Water & Manure Analysis

Process Water															
Quarters:	NH4N (mg/L)	TKN (mg/L)	TP (mg/L)	TK (mg/L)	NO3N (mg/L)	NH3N (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	CO3 (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	CL (mg/L)	EC (ds/m)	TDS (mg/L)
1	395.0	472.0	66.2	596.0	1.0	-	-	-	-	-	-	-	-	6	4,060
2	500.0	570.0	75.2	721.0	1.0	-	-	-	-	-	-	-	-	8	5,460
3	441.0	452.0	37.0	396.0	1.0	-	0.0	70.8	154.0	0.0	53.2	90.9	5.5	8	5,140
4	347.0	356.0	46.3	303.0	1.0	-	-	-	-	-	-	-	-	-	3,720
Detectable Limits															
Valley Tech	2.0	5.0	0.1	0.2										0.10	10
Dellavalle	0.2	0.7	0.02	0.2	0.01		0.05	0.4	0.10	0.9	3	0.01	0.03	0.001	10

				Inorg N	Org N	P2O5	K2O
Qtr	Sample #:	Sample Date:	Source	lbs / Ac in			
1	3-24L44734	3/24/2023	Valley Tech	89.8	17.5	34.4	162.7
2	5-11L49501	5/11/2023	Valley Tech	113.6	15.9	39.1	196.9
3	8-17L62141	8/17/2023	Valley Tech	100.2	2.5	19.2	108.1
4	10-4L67884	10/4/2023	Valley Tech	78.9	2.0	24.0	82.7

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type
Manure	5-11M49476	5/11/2023	Dry Weight	Valley Tech	Corral Solids
Manure	10-4M67870	10/4/2023	Dry Weight	Valley Tech	Corral Solids

Dry Manure: (As Recv'd)	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	0.98	0.40	2.34	-	-	-	-	-	-	-	48.80
Corral	0.96	0.30	0.79	2.30	0.47	0.20	0.31	0.66	-	38.30	51.50
Detectable Limits											
Valley Tech	0.01%	0.02%	0.02%								
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%	0.001%	0.001%	0.000%		0.001%	0.001%

Nutrient Applications

Field Name/Number: 6-T1 **Acres:** 76.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
1/1/19	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/13/23	Canal	-	-	-	5.62	-	0.0	-	-	28	-		-
4/19/23	Canal	-	-	-	5.37	-	0.0	-	-	27	-		-
5/22/23	Canal	-	-	-	5.58	-	0.0	-	-	28	-		-
6/24/23	Canal	-	-	-	5.30	-	0.0	-	-	27	-		-
7/12/23	Canal	-	-	-	5.51	-	0.0	-	-	28	-		-
8/19/23	Canal	-	-	-	5.41	-	0.0	-	-	27	-		-
9/15/23	Canal	-	-	-	5.48	-	0.0	-	-	28	-		-
11/1/22	W. Harvest	-	-	-	-	-	(464.2)	(33.4)	(429.3)	-	10.40		8.29
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
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	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	38.27	0.00	(464)	(33)	(429)	193	10.40	0	8.29

Dry Weight
As Received

Field Name/Number: 6-T1 **Acres:** 76

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.1	0.0	0.0	192.6
Nutrients Removed at Harvest	-464.2	-33.4	-429.3	0.0
Nutrient Balance	-464.1	-33.4	-429.3	192.6

Winter Nitrogen Crop App / Use Ratio: 0.02 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: 6-T1 **Acres:** 76

Winter Crop	**Alfalfa**					
Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	1/1/19					
W. Harvest	11/1/22	8.3	T/Ac	(464.2)	(76.4)	(515.2)

Summer Crop	**Alfalfa**					
Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	0		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: 6-T2 (TREES) **Acres:** 75.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Yield Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
1/1/16	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/5/23	3.00	-	-	-	1.12	-	0.1	-	-	21	-		-
4/8/23	3.00	-	-	-	1.15	-	0.1	-	-	22	-		-
5/7/23	3.00	-	-	-	2.65	-	0.3	-	-	50	-		-
6/10/23	3.00	-	-	-	6.04	-	0.7	-	-	115	-		-
7/9/23	3.00	-	-	-	8.25	-	0.9	-	-	157	-		-
8/12/23	3.00	-	-	-	7.07	-	0.8	-	-	135	-		-
9/20/23	3.00	-	-	-	5.30	-	0.6	-	-	101	-		-
10/4/23	3.00	-	-	-	2.62	-	0.3	-	-	50	-		-
11/1/23	W. Harvest	-	-	-	-	-	(98.4)	(14.7)	(108.2)	-	10.40		1.75
	-	-	-	-	-	-	-	-	-	-	-		-
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Totals:		0.0		0	34.20	0.00	(94)	(15)	(108)	651	10.40	0	1.75

Field Name/Number: 6-T2 (TREES) **Acres:** 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	3.9	0.0	0.0	651.4
Nutrients Removed at Harvest	-98.4	-6.4	-89.8	0.0
Nutrient Balance	-94.5	-6.4	-89.8	651.4

Winter Nitrogen Crop App / Use Ratio: 0.11 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: 6-T2 (TREES) **Acres:** 75

Winter Crop	**Trees, Pistachios**					
Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		34.2	Ac In /Ac	3.9		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	1/1/16					
W. Harvest	11/1/23	1.8	T/Ac	(98.4)	(33.7)	(129.8)

Summer Crop	**Trees, Pistachios**					
Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: 6-T3 **Acres:** 81.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/15/23	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/6/23	Canal	-	-	-	5.69	-	0.0	-	-	29	-		-
2/6/23	Process Water	-	-	-	-	1.19	107.5	17.8	160.3	1,092	-		-
4/11/23	Canal	-	-	-	5.83	-	0.0	-	-	29	-		-
4/11/23	Process Water	-	-	-	-	1.21	110.0	20.7	198.4	1,502	-		-
5/2/23	Canal	-	-	-	5.76	-	0.0	-	-	29	-		-
5/2/23	Process Water	-	-	-	-	1.20	86.3	20.5	196.2	1,486	-		-
5/28/23	W. Harvest	-	-	-	-	-	(306.2)	(72.4)	(488.3)	-	10.40		25.23
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
6/18/23	2 New	-	-	-	3.16	-	1.1	-	-	69	-		-
6/18/23	Canal	-	-	-	3.80	-	0.0	-	-	19	-		-
7/4/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/20/23	Canal	-	-	-	6.64	-	0.0	-	-	33	-		-
8/12/23	Canal	-	-	-	5.73	-	0.0	-	-	29	-		-
8/12/23	Process Water	-	-	-	-	1.19	89.6	10.0	107.1	1,391	-		-
9/4/23	Canal	-	-	-	5.83	-	0.0	-	-	29	-		-
9/4/23	Process Water	-	-	-	-	1.21	91.1	10.2	109.0	1,414	-		-
10/1/23	Canal	-	-	-	6.38	-	0.0	-	-	32	-		-
10/23/23	S. Harvest	-	-	-	-	-	(150.2)	(25.0)	(204.2)	-	-		22.72
	-	-	-	-	-	-	-	-	-	-	-		-
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Totals:		**0.0**		**0**	**48.82**	**6.01**	**29**	**(18)**	**78**	**7,184**	**10.40**	**0**	**47.95**

Field Name/Number: 6-T3 **Acres:** 81.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	485.6	34.5	639.9	7183.5
Nutrients Removed at Harvest	-456.4	-42.5	-574.9	0.0
Nutrient Balance	29.2	-8.0	65.0	7183.5

Winter Nitrogen Crop App / Use Ratio: 1.01 **Summer Nitrogen Crop App / Use Ratio:** 1.26

Field Name/Number: 6-T3 **Acres:** 81

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.2	Ac In /Ac	107.5	40.8	192.4
	Q2	2.4	Ac In /Ac	196.3	94.2	473.4
Well Water		-	Ac In /Ac	-		
Canal		17.3	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/15/23					
W. Harvest	5/28/23	25.2	T/Ac	(306.2)	(165.8)	(586.0)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	2.4	Ac In /Ac	180.7	46.2	259.3
	Q4	-	Ac In /Ac	-	-	-
Well Water		3.2	Ac In /Ac	1.1		
Canal		28.4	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	7/4/23					
S. Harvest	10/23/23	22.7	T/Ac	(150.2)	(57.3)	(245.1)

Nutrient Applications

Field Name/Number: 6-T4 **Acres:** 67.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/25/22	W. Manure App.	13.43	-	-	-	-	105.6	107.3	630.0	-	-		-
10/30/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/6/23	Canal	-	-	-	6.77	-	0.0	-	-	34	-		-
4/11/23	Canal	-	-	-	5.94	-	0.0	-	-	30	-		-
4/11/23	Process Water	-	-	-	-	1.24	112.0	21.1	202.1	1,531	-		-
5/1/23	Canal	-	-	-	5.86	-	0.0	-	-	29	-		-
5/1/23	Process Water	-	-	-	-	1.22	87.7	20.8	199.4	1,510	-		-
5/15/23	W. Harvest	-	-	-	-	-	(330.2)	(84.3)	(534.0)	-	10.40		25.40
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
6/1/23	S. Manure App.	11.94	-	-	-	-	91.3	71.8	188.8	-	-		-
6/20/23	Canal	-	-	-	6.65	-	0.0	-	-	33	-		-
7/1/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/18/23	4.00	-	-	-	3.03	-	-	-	-	-	-		-
7/18/23	Canal	-	-	-	3.64	-	0.0	-	-	18	-		-
7/18/23	Process Water	-	-	-	-	0.76	56.9	6.4	68.1	884	-		-
8/9/23	Canal	-	-	-	5.70	-	0.0	-	-	29	-		-
8/9/23	Process Water	-	-	-	-	1.19	89.1	10.0	106.6	1,383	-		-
8/30/23	Canal	-	-	-	6.53	-	0.0	-	-	33	-		-
9/20/23	Canal	-	-	-	6.61	-	0.0	-	-	33	-		-
10/1/23	S. Harvest	-	-	-	-	-	(212.7)	(34.3)	(188.7)	-	-		26.72
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
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	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		**25.4**		**0**	**50.71**	**4.40**	**(0)**	**119**	**672**	**5,548**	**10.40**	**0**	**52.12**

Field Name/Number: 6-T4 **Acres:** 67.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	542.8	103.6	1157.9	5547.9
Nutrients Removed at Harvest	-542.9	-51.8	-599.9	0.0
Nutrient Balance	-0.1	51.8	558.0	5547.9

Winter Nitrogen Crop App / Use Ratio: 0.95 **Summer Nitrogen Crop App / Use Ratio:** 1.15

Field Name/Number: 6-T4 **Acres:** 67

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		13.4	T/Ac	105.6	245.7	756.0
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	2.5	Ac In /Ac	199.8	95.9	481.8
Well Water		-	Ac In /Ac	-		
Canal		18.6	Ac In /Ac	0.0		
Atm. Depos.		Yes		7.0		
W. Planting	10/30/22					
W. Harvest	5/15/23	25.4	T/Ac	(330.2)	(193.1)	(640.8)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		11.9	T/Ac	91.3	164.4	226.5
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	1.9	Ac In /Ac	146.0	37.4	209.6
	Q4	-	Ac In /Ac	-	-	-
Well Water		3.0	Ac In /Ac	(0.0)		
Canal		29.1	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	7/1/23					
S. Harvest	10/1/23	26.7	T/Ac	(212.7)	(78.6)	(226.4)

Nutrient Applications

Field Name/Number: 7-T5 **Acres:** 88.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/10/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/1/23	Canal	-	-	-	5.30	-	0.0	-	-	27	-		-
2/1/23	Process Water	-	-	-	-	1.10	100.1	16.6	149.2	1,017	-		-
3/6/23	Canal	-	-	-	5.24	-	0.0	-	-	26	-		-
3/6/23	Process Water	-	-	-	-	1.09	99.0	16.4	147.6	1,005	-		-
4/14/23	Canal	-	-	-	5.21	-	0.0	-	-	26	-		-
4/14/23	Process Water	-	-	-	-	1.09	78.1	18.5	177.5	1,344	-		-
5/20/23	W. Harvest	-	-	-	-	-	(260.5)	(67.7)	(465.4)	-	10.40		21.82
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
6/9/23	Canal	-	-	-	6.93	-	0.0	-	-	35	-		-
6/27/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/12/23	Canal	-	-	-	5.57	-	0.0	-	-	28	-		-
7/12/23	Process Water	-	-	-	-	1.16	87.2	9.7	104.2	1,353	-		-
8/15/23	Canal	-	-	-	5.51	-	0.0	-	-	28	-		-
8/15/23	Process Water	-	-	-	-	1.15	86.2	9.6	103.1	1,338	-		-
9/5/23	Canal	-	-	-	5.69	-	0.0	-	-	29	-		-
9/5/23	Process Water	-	-	-	-	1.19	89.0	9.9	106.5	1,382	-		-
10/2/23	Canal	-	-	-	5.42	-	0.0	-	-	27	-		-
10/2/23	Process Water	-	-	-	-	1.13	84.8	11.9	77.6	953	-		-
10/18/23	S. Harvest	-	-	-	-	-	(261.0)	(51.2)	(245.6)	-	-		27.60
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
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Totals:		**0.0**		**0**	**44.89**	**7.91**	**103**	**(26)**	**155**	**8,618**	**10.40**	**0**	**49.42**

Field Name/Number: 7-T5 **Acres:** 88.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	624.4	40.4	718.6	8618.4
Nutrients Removed at Harvest	-521.5	-51.9	-590.3	0.0
Nutrient Balance	102.9	-11.5	128.3	8618.4

Winter Nitrogen Crop App / Use Ratio: 1.09 **Summer Nitrogen Crop App / Use Ratio:** 1.36

Field Name/Number: 7-T5 **Acres:** 88

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	2.2	Ac In /Ac	199.1	75.5	356.2
	Q2	1.1	Ac In /Ac	78.1	42.4	213.0
Well Water		-	Ac In /Ac	-		
Canal		15.8	Ac In /Ac	0.0		
Atm. Depos.		Yes		7.0		
W. Planting	11/10/22					
W. Harvest	5/20/23	21.8	T/Ac	(260.5)	(155.1)	(558.5)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	3.5	Ac In /Ac	262.4	67.2	376.6
	Q4	1.1	Ac In /Ac	84.8	27.2	93.1
Well Water		-	Ac In /Ac	0.0		
Canal		29.1	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	6/27/23					
S. Harvest	10/18/23	27.6	T/Ac	(261.0)	(117.2)	(294.8)

Nutrient Applications

Field Name/Number: 7-T7 **Acres:** 70.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Yield Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
1/1/19	W. Planting	-	-	-	-	-	-	-	-	-	-		-
1/6/23	Canal	-	-	-	5.68	-	0.0	-	-	29	-		-
3/2/23	Canal	-	-	-	5.95	-	0.0	-	-	30	-		-
4/15/23	Canal	-	-	-	5.76	-	0.0	-	-	29	-		-
5/6/23	Canal	-	-	-	5.68	-	0.0	-	-	29	-		-
6/11/23	Canal	-	-	-	5.98	-	0.0	-	-	30	-		-
7/14/23	Canal	-	-	-	5.87	-	0.0	-	-	30	-		-
8/16/23	Canal	-	-	-	5.76	-	0.0	-	-	29	-		-
9/15/23	Canal	-	-	-	6.02	-	0.0	-	-	30	-		-
11/1/23	W. Harvest	-	-	-	-	-	(393.2)	(29.5)	(463.1)	-	10.40		8.59
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Totals:		0.0		0	46.70	0.00	(393)	(30)	(463)	235	10.40	0	8.59

Field Name/Number: 7-T7 **Acres:** 70.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.1	0.0	0.0	235.1
Nutrients Removed at Harvest	-393.2	-12.9	-384.4	0.0
Nutrient Balance	-393.1	-12.9	-384.4	235.1

Winter Nitrogen Crop App / Use Ratio: 0.02 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: 7-T7 **Acres:** 70

Winter Crop	**Alfalfa**					
Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		46.7	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
W. Planting	1/1/19					
W. Harvest	11/1/23	8.6	T/Ac	(393.2)	(67.6)	(555.7)

Summer Crop	**Alfalfa**					
Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Notes

Without allowance for the significant amount of rainfall during the winter months of 2022/2023, the irrigation logs on each field page of the annual report, reflect canal and/or well used only during that time frame. The facility did not irrigate during the "Significant Storm Events".

It is inaccurate to present "salt" application without acknowledging that there is substantial uptake and utilization of "salts" by crops. If it is possible to calculate "salt" application, it is also possible to calculate "salt" utilization. That calculation should be included in this report. To calculate "salt" utilization is a lengthy process and cannot be done with the constituents required in the Revised General Order sampling requirements.

The signature(s) affixed to this report does not affirmatively refer to those references to "salt" that we know to be incorrect.

(Initial)

Exception Reporting

Manure , Process Water and Other Dairy Waste Discharges:

The following is a summary of all manure and process water 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 water discharges occurred during the reporting period

Storm Water Discharges:

The follow 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, storm water discharges occurred durging the reporting period

Land Application Area To Surface Water Discharges:

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

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

Nutrient Management Plan (NMP) & Written Agreement Statement

Nutrient Management Plan Statement:

Was the faciltiy NMP updated in the reporting period? No

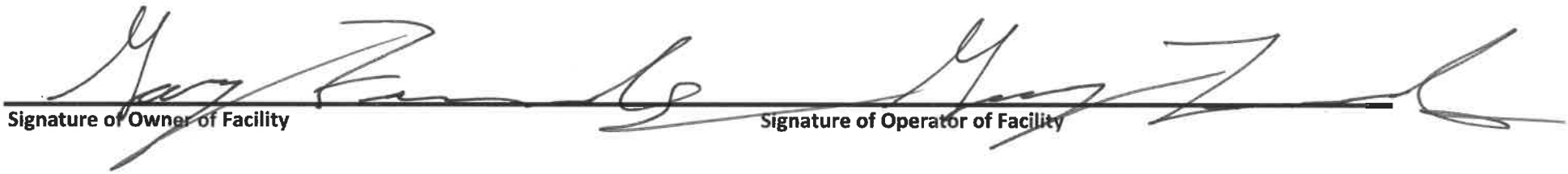
Was the facility's NMP developed and approved by a certified nutrient management specialist? No

Written Agreements:

Are there any written agreements with third parties to receive manure or process water that are new or were revised within the repoting period? No

Owner and/or Operator Certification

**I certify under penalty of law that all information submitted as part of this document is accurate and true. Certification signatures by a California Registered Professional have been supplied as needed in Part II. I have personally examined and am familiar with the information submitted in Parts I and II of 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

Gary & Victoria Fernandes

Print Name

Same as owner

Print Name

5/1/24

Date

5/1/24

Date

Livingston Dairy Consulting, Inc.

FIELD ACTIVITY REPORT

Facility Nai LegenDairy Farms
14703 Rd. 96, Tipton
Tulare County

2023

Sample Collection Equipment:
Bottle Container

Sample Container: (Circle one)
Bottle Container: 8 fl oz 16 fl oz 32 fl oz

Sample Collection Location: (Circle one)
Discharge Pipe Spigot/Faucet

Sample Collection Method: (Circle one) *All Samples are labeled with the facility name, date, contents, location and description ** Please see the Sample and Anylsis Plan for more detailed descriptions.

Well: **Sample taken at the Discharge Pipe, Spigot or Faucet using a sample container provided by laboratory**

Sample Type:

Date	Well Name	Time	PH	Temp	Ammonium
1-31	Barn / Dom	8:45	6.5	63	Ø
1-31	Dom 1	8:47	6.0	65	Ø
1-31	Back up (Dom)	8:53	6.8	62	Ø
7/6	Well #3	10:07	7	67	Ø
	Well #5	10:11	6.5	66	Ø
7/20	#2 New	10:59	7	65	Ø

Sample Preservation Method: (Circle one) **Ice Chest Refrigerator Ice Pack**

Leaen Dairy

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

February 17, 2023

Lab No. : **VI 2340555**
Customer No. : **4018505**

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(3 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Barn Dom	01/31/2023	01/31/2023	VI 2340555-001	DW
Dom 1	01/31/2023	01/31/2023	VI 2340555-002	DW
Back Up (Dom)	01/31/2023	01/31/2023	VI 2340555-003	DW

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2023-02-17

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February 17, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Description : Barn Dom
Project : W-6 Legen Dairy

Lab No. : VI 2340555-001
Customer No. : 4018505

Sampled On : January 31, 2023 at 08:45
Sampled By : Marlene / Kaylin
Received On : January 31, 2023 at 14:03
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:52	lcr
Nitrate Nitrogen	16.3	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:34	lfs
Nitrogen, Total as Nitrogen	16.3	0.5	mg/L		1		02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:52	lcr
Nitrate + Nitrite as N	16.3	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:34	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:52	lcr
Conductivity	249	1	umhos/cm	1600[2]	1		02/09/2023	14:28	sta		02/09/2023	14:28	sta
Solids, Total Dissolved (TDS)	170	20	mg/L	1000[2]	1		02/03/2023	11:24	ctl	SM 2540 C	02/06/2023	13:07	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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February 17, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Description : Dom 1
Project : W-6 Legen Dairy

Lab No. : VI 2340555-002
Customer No. : 4018505

Sampled On : January 31, 2023 at 08:47
Sampled By : Marlene / Kaylin
Received On : January 31, 2023 at 14:03
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:54	lcr
Nitrate Nitrogen	0.4	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:36	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:54	lcr
Nitrate + Nitrite as N	0.4	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:36	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:54	lcr
Conductivity	990	1	umhos/cm	1600[2]	1		02/09/2023	14:28	sta		02/09/2023	14:28	sta
Solids, Total Dissolved (TDS)	580	20	mg/L	1000[2]	1		02/02/2023	11:53	ctl	SM 2540 C	02/03/2023	12:36	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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February 17, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Description : Back Up (Dom)
Project : W-6 Legen Dairy

Lab No. : VI 2340555-003
Customer No. : 4018505

Sampled On : January 31, 2023 at 08:53
Sampled By : Marlene / Kaylin
Received On : January 31, 2023 at 14:03
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:56	lcr
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:39	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:56	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L	10	1	U	02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:39	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	16:56	lcr
Conductivity	251	1	umhos/cm	1600[2]	1		02/09/2023	14:28	sta		02/09/2023	14:28	sta
Solids, Total Dissolved (TDS)	200	20	mg/L	1000[2]	1		02/02/2023	11:53	ctl	SM 2540 C	02/03/2023	12:38	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

Page 4 of 5

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February 17, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2340555
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2510B	02/09/2023:201372STA	Blank	umhos/cm		ND	<1	
		(STK2331345-001)	Dup	umhos/cm		0.6%	5	
			Blank	umhos/cm		ND	<1	
		(VI 2340831-003)	Dup	umhos/cm		1%	5	
Solids, Total Dissolved	2540CE	02/02/2023:201179CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	103 %	90-110	
		(SP 2301488-001)	Dup	mg/L		2.2%	5	
		(SP 2301488-001)	Dup	mg/L		0.4%	5	
	2540CE	02/03/2023:201214CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	100 %	90-110	
		(VI 2340568-001)	Dup	mg/L		2.7%	5	
		(VI 2340568-001)	Dup	mg/L		1.6%	5	
Nitrogen, Total Kjeldahl	351.2	02/14/2023:201629STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	94.3%	73-124	
			MS	mg/L	12.00	99.4%	54-136	
		(SP 2301580-001)	MSD	mg/L	12.00	95.8%	54-136	
			MSRPD	mg/L	12.00	3.7%	≤27	
			MS	mg/L	12.00	97.9%	54-136	
		(CH 2370584-001)	MSD	mg/L	12.00	94.8%	54-136	
			MSRPD	mg/L	12.00	3.1%	≤27	
Nitrate + Nitrite as N	4500NO3F	02/01/2023:201107LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.8%	80-120	
			MS	mg/L	5.609	90.4%	66-125	
		(VI 2340568-001)	MSD	mg/L	5.609	90.2%	66-125	
			MSRPD	mg/L	5.609	0.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	02/01/2023:201107LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.8%	80-120	
			MS	mg/L	5.609	90.4%	66-125	
		(VI 2340568-001)	MSD	mg/L	5.609	90.2%	66-125	
			MSRPD	mg/L	5.609	0.1%	≤30.4	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

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Laboratory Copy (1 of 3)

Client: **Livingston Dairy Consulting, Inc.**
Address: Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Phone: (559)687-1440 Fax:
Contact Person: Noreen Livingston
Project Name: **W-6** Legen Dairy
Purchase Order Number:
Quote Number: **VI 20210208-01**

Sampler(s) Marlene & Kaylin

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **VI** 2340555 **4-18505**

42086:03/01/2022

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	**SEE REVERSE SIDE** Type of Sample	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Sampling-W-6 - Total N - Split Bottle ***VI Lab to Split for Total N*** 8oz(P)-H2SO4
1	Barn DOM	1/31	8:45AM	G	DWP				1	1
2	DOM 1	↓	8:47AM	G	↓	↓			1	1
3	Back up (DOM)		8:53AM	G	↓	↓			1	1
4				G					1	1
5				G					1	1
6				G					1	1
7				G					1	1
8				G					1	1
9				G					1	1
10				G					1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
	1/31/23	1:33		1/31/23	1403		1/31/23	2:30
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
	1/31/23	1:33		1/31/23	1403		1/31/23	2:30

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Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # GTC

2. Were samples received in a chilled condition? Temps: 6.1 / 4.3 / ____ / ____ / ____
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	VOAs checked for Headspace?	Yes	No	N/A
6.	Were sample custody seals intact?	Yes	No	N/A
7.	If required, was sample split for pH analysis?	Yes	No	N/A
8.	Were all analyses within holding times at time of receipt?	Yes	No	
9.	Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): DA

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2c / ____ / ____ / ____ / ____
Acceptable is above freezing to 6 C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 558722593 590 584

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	Yes	No		
2.	Did bottle labels correspond with the client's ID's?	Yes	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	N/A	
5.	Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6.	Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MDC

Discrepancy Documentation:
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem:
Resolution:

2. Person Contacted: _____ Phone Number: _____
Initiated By: _____
Problem:
Resolution:

(Please use the back of this sheet for additional c
contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2340555
da0 02/01/2023 12:12:34
VI 2340555

Legen Dairy

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

July 31, 2023

Lab No. : **VI 2344106**
Customer No. : **4018505**

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Well #3	07/06/2023	07/06/2023	VI 2344106-001	AGW
Well #5	07/06/2023	07/06/2023	VI 2344106-002	AGW

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-07-31

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July 31, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Description : Well #3
Project : W-6 Legen Dairy

Lab No. : VI 2344106-001
Customer No. : 4018505

Sampled On : July 6, 2023 at 10:07
Sampled By : Marlene Ferreira
Received On : July 6, 2023 at 10:55
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/20/2023	11:04	sta	EPA 351.2	07/27/2023	19:01	lcr
Nitrate Nitrogen	0.5	0.4	mg/L		1		07/07/2023	16:00	lfs	SM 4500-NO3 F	07/07/2023	18:11	lfs
Nitrogen, Total as Nitrogen	0.5	0.5	mg/L		1	U	07/20/2023	11:04	sta	Calc.	07/27/2023	19:01	lcr
Nitrate + Nitrite as N	0.5	0.4	mg/L		1		07/07/2023	16:00	lfs	SM 4500-NO3 F	07/07/2023	18:11	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/20/2023	11:04	sta	EPA 351.2	07/27/2023	19:01	lcr
Conductivity	234	1	umhos/cm		1		07/12/2023	14:47	amm	SM 4500-H+B	07/12/2023	18:15	amm
Solids, Total Dissolved (TDS)	140	20	mg/L		1		07/10/2023	15:00	ctl	SM 2540 C	07/11/2023	11:00	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

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July 31, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344106-002
Customer No. : 4018505

Sampled On : July 6, 2023 at 10:11
Sampled By : Marlene Ferreira
Received On : July 6, 2023 at 10:55
Matrix : Ag Water

Description : Well #5
Project : W-6 Legen Dairy

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/20/2023	11:04	sta	EPA 351.2	07/27/2023	19:04	lcr
Nitrate Nitrogen	0.6	0.4	mg/L		1		07/07/2023	16:00	lfs	SM 4500-NO3 F	07/07/2023	18:14	lfs
Nitrogen, Total as Nitrogen	0.6	0.5	mg/L		1		07/20/2023	11:04	sta	Calc.	07/27/2023	19:04	lcr
Nitrate + Nitrite as N	0.6	0.4	mg/L		1		07/07/2023	16:00	lfs	SM 4500-NO3 F	07/07/2023	18:14	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/20/2023	11:04	sta	EPA 351.2	07/27/2023	19:04	lcr
Conductivity	274	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	22:57	amm
Solids, Total Dissolved (TDS)	210	20	mg/L		1		07/10/2023	15:00	ctl	SM 2540 C	07/11/2023	11:00	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Page 3 of 4

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July 31, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344106
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344111-007)	Dup	umhos/cm		0.6%	5	
	2320B	(SP 2311505-002)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	07/10/2023:207515CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	98.0%	90-110	
		(VI 2344111-009)	Dup	mg/L		0.8%	5	
		(VI 2344111-009)	Dup	mg/L		0.8%	5	
Nitrogen, Total Kjeldahl	351.2	07/20/2023:207947STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	95.3%	73-124	
			MS	mg/L	12.00	83.2%	54-136	
		(VI 2344102-001)	MSD	mg/L	12.00	88.0%	54-136	
			MSRPD	mg/L		5.5%	≤27	
			MS	mg/L	12.00	84.1%	54-136	
		(VI 2344102-002)	MSD	mg/L	12.00	85.6%	54-136	
			MSRPD	mg/L		1.7%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/07/2023:207444LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.9%	80-120	
			MS	mg/L	5.609	84.3%	66-125	
		(VI 2344132-002)	MSD	mg/L	5.609	90.6%	66-125	
			MSRPD	mg/L		4.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/07/2023:207444LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.9%	80-120	
			MS	mg/L	5.609	84.3%	66-125	
		(VI 2344132-002)	MSD	mg/L	5.609	90.6%	66-125	
			MSRPD	mg/L		4.1%	≤30.4	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

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FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

Special

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 2)

42086:04/01/2023

Client: **Livingston Dairy Consulting, Inc.**
Address: Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Phone: (559)687-1440 Fax:
Contact Person: Noreen Livingston
Project Name: **W-6** LegenDairy
Purchase Order Number:
Quote Number: **VI 20210208-01**
Sampler(s) Marlene

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **VI** 2344106 **4-18505**

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Bottles/Containers Spli: Fee 8oz(P)-H2SO4
1	Well #3	7/6	10:07AM	G	AgW	NP			1	1
2	Well #5	7/6	10:11AM	G	AgW	NP			1	1
3				G					1	1
4				G					1	1
5				G					1	1
6				G					1	1
7				G					1	1
8				G					1	1
9				G					1	1
10				G					1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
	7/6/23	1055		7/6/23	1055	SRO	7/6/23	1730
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
	7/6/23	1055	SRO	7.6.23	1055	GLS	7/6/23	1730

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R01 8.6

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GLS 7/7/23
MC 1424

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Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH (VI)

1. Number of ice chests/packages received: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: R01 / 8.6 / _____ / _____ / _____
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	
5.	VOAs checked for Headspace?	Yes	No	(N/A)
6.	Were sample custody seals intact?	Yes	No	(N/A)
7.	If required, was sample split for pH analysis?	Yes	No	(N/A)
8.	Were all analyses within holding times at time of receipt?	(Yes)	No	
9.	Verify sample date, time and sampler name	(Yes)	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 3C / _____ / _____ / _____ / _____
Acceptable is above freezing to 6 C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 5597191611 181
165 174

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	Were sample custody seals intact?	Yes	No	(N/A)

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	Yes	No		
2.	Did bottle labels correspond with the client's ID's?	Yes	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	N/A	
5.	Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6.	Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MDC

Discrepancy Documentation:
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem:
Resolution:

2. Person Contacted: _____
Initiated By: _____
Problem:
Resolution:

(Please use the back of this sheet for additional c
contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2344106
iv 07/07/2023 10:15:38
VI 2344106

Legen Dairy

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

August 16, 2023

Lab No. : **VI 2344715**
Customer No. : **4018505**

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
#2 New	07/20/2023	07/20/2023	VI 2344715-001	AGW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-08-17

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Legen Dairy

August 16, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344715-001
Customer No. : 4018505

Sampled On : July 20, 2023 at 06:59
Sampled By : Marlene / Noreen
Received On : July 20, 2023 at 10:32
Matrix : Ag Water

Description : #2 New
Project : W-6 Legen Dairy

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	08/10/2023	14:22	sta	EPA 351.2	08/12/2023	17:29	lcr
Nitrate Nitrogen	1.5	0.4	mg/L		1		07/21/2023	17:00	lfs	SM 4500-NO3 F	07/21/2023	19:32	lfs
Nitrogen, Total as Nitrogen	1.5	0.5	mg/L		1		08/10/2023	14:22	sta	Calc.	08/12/2023	17:29	lcr
Nitrate + Nitrite as N	1.5	0.4	mg/L		1		07/21/2023	17:00	lfs	SM 4500-NO3 F	07/21/2023	19:32	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	08/10/2023	14:22	sta	EPA 351.2	08/12/2023	17:29	lcr
Conductivity	253	1	umhos/cm		1		07/31/2023	17:05	amm	SM 4500-H+B	08/01/2023	00:05	amm
Solids, Total Dissolved (TDS)	160	20	mg/L		1		07/24/2023	12:50	ctl	SM 2540 C	07/25/2023	10:50	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

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August 16, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344715
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344899-001)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	07/24/2023:208076CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	98.4 %	90-110	
		(SP 2312486-005)	Dup	mg/L		2.1%	5	
		(SP 2312486-005)	Dup	mg/L		1.5%	5	
Nitrogen, Total Kjeldahl	351.2	08/10/2023:208886STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	88.3%	73-124	
			MS	mg/L	12.00	93.5%	54-136	
		(CH 2375698-002)	MSD	mg/L	12.00	92.2%	54-136	
			MSRPD	mg/L		0.9%	≤27	
			MS	mg/L	12.00	91.3%	54-136	
		(CH 2375698-003)	MSD	mg/L	12.00	96.0%	54-136	
			MSRPD	mg/L		4.8%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/21/2023:208010LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	96.8%	80-120	
			MS	mg/L	5.609	88.4%	66-125	
		(STK2339748-001)	MSD	mg/L	5.609	87.9%	66-125	
			MSRPD	mg/L		0.2%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/21/2023:208010LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	96.8%	80-120	
			MS	mg/L	5.609	88.4%	66-125	
		(STK2339748-001)	MSD	mg/L	5.609	87.9%	66-125	
			MSRPD	mg/L		0.2%	≤30.4	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

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Laboratory Copy (1 of 2)

42086:04/01/2023

Client: **Livingston Dairy Consulting, Inc.**
Address: Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Phone: (559)687-1440 Fax:
Contact Person: Noreen Livingston
Project Name: W-6 Legen Dairy
Purchase Order Number:
Quote Number: **VI 20210208-01**

Sampler(s) Marlene & Noreen

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **VI** 2344715 **4-18505**

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Bottles/Containers Split Fee 8oz(P)-H2SO4
1	#2 NEW	7/20	6:30AM	G	AgW	NP			1	1
2				G					1	1
3				G					1	1
4				G					1	1
5				G					1	1
6				G					1	1
7				G					1	1
8				G					1	1
9				G					1	1
10				G					1	1

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Remarks:

Relinquished	Date:	Time:
Marlene Stein	7/20/23	10:32
SRO	7/20/23	1730
GLS	7/21/23	1120

Received By:	Date:	Time:
SRO	7/20/23	1032
GLS	7/20/23	1730
	/	/

R01
8.5°C

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Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH (VI)

1. Number of ice chests/packages received: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: R01 / 8.5°C / _____ / _____ / _____
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	
5.	VOAs checked for Headspace?	Yes	No	(N/A)
6.	Were sample custody seals intact?	Yes	No	(N/A)
7.	If required, was sample split for pH analysis?	Yes	No	(N/A)
8.	Were all analyses within holding times at time of receipt?	(Yes)	No	
9.	Verify sample date, time and sampler name	(Yes)	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 1C / _____ / _____ / _____ / _____
Acceptable is above freezing to 6 C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers: 559803345 3297
3542 3359

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	Were sample custody seals intact?	Yes	No	(N/A)

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	(Yes)	No		
2.	Did bottle labels correspond with the client's ID's?	(Yes)	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	(Yes)	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	(N/A)	
5.	Have rush or project due dates been checked and accepted?	Yes	No	(N/A)	
6.	Were all analyses within holding times at time of receipt?	(Yes)	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MDC

Discrepancy Documentation:
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem:
Resolution:

2. Person Contacted: _____ Phone Number:
Initiated By: _____
Problem:
Resolution:

(Please use the back of this sheet for additional cor
contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2344715
iv 07/20/2023 14:27:04
VI 2344715

2023 Canal Results

558TRA144 - Tule River at Road 144

Core & Assessment Constituents

Constituent	Field/Lab	WQTL	MDL	PQL	Units	Oct-22	Nov-22	Dec-22	1/17/23	2/13/23	March-23	4/17/23	5/15/23	6/19/23	7/18/23
Flow	Field				cfs	0	0	0	220	280	Due to Record Flood Conditions, No Surface Water Analysis in March 2023	180	150	250	400
EC ✓	BSK	700			umhos/cm				151.2	115.3		134.4	128.3	131	138.4
pH	BSK	6.5-8.3			pH				7.59	6.5		7.1	6.8	6.4	8.53
Temperature	BSK				Celsius				10	11.3		15.9	21.4	20.3	19.6
Dissolved Oxygen	BSK	Min. 7.0			mg/L				10.87	12.7		9.49	**	14.37	8
TDS ✓	BSK	450	4.4	10	mg/L				30	50		110	96	33	37
Turbidity	BSK			0.1	NTU				56	15		11	6.4	15	21
Nitrate + Nitrite as N ✓	BSK	10	0.028	0.2	mg/L				1.3	0.24		0.022	0.61	0.077	ND
Orthophosphate-P	BSK		0.0051	0.6	mg/L				1.9	0.019		0.021	0.038	0.011	0.015
Ammonia-N	BSK	1.5	0.05	0.5	mg/L				ND	ND		ND	ND	ND	ND
Unionized Ammonia	BSK				mg/L				ND	ND		ND	ND	ND	ND
TKN	BSK		0.267	0.5	mg/L				0.17	0.43		ND	0.16	ND	0.16
Phosphorus	BSK		8.1	50	ug/L				1.8	0.044		0.091	0.048	0.034	0.02
Arsenic	BSK	10	0.041	0.2	ug/L				2.2	1.7		1.6	1.3	1.1	1.1
Boron	BSK	700	4.5	10	ug/L				30	23		22	17	8.1	5
Cadmium	BSK	5	0.025	0.2	ug/L				ND	ND		ND	ND	ND	ND
Copper	BSK	1300	0.36	0.5	ug/L				3.3	5		2.8	2.4	2.7	4.8
Lead	BSK	15	0.034	0.2	ug/L				1.4	0.63		0.83	0.48	0.45	0.55
Nickel	BSK	100	0.2	0.5	ug/L				1.5	0.79		1.5	0.86	0.75	0.85
Selenium	BSK	50	0.29	1	ug/L				1.1	0.33		0.77	0.62	ND	0.32
Zinc	BSK		0.68	20	ug/L				7.1	3.9		6.1	7.4	2.9	5.1
Molybdenum	BSK	10	0.15	0.5	ug/L				1.5	1.2		1.2	0.98	0.68	0.59
Hardness	BSK		1	1	mg/L				58	22		50	40	12	8
TSS	BSK		na	10	mg/L				30	32		36	12	22	32
TOC	BSK		0.085	0.5	mg/L				3.1	3.2		3.6	2.6	2.2	1.8
E. coli	BSK	235		1.1	MPN				130	4.5		49	240	130	79
Fecal Coliform	BSK	400		1.1	MPN				130	4.5		49	240	130	79
Toxicity, minnow	ABC				96h				100	100		100	100	100	87.5
Toxicity, water flea	ABC				48h				100	100		100	100	100	100
Toxicity, algae	ABC				48h				100	100		100	100	100	100
2,4-D Acids &Salts	BSK														