



Livingston Dairy Consulting, Inc.

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

LegenDairy South

8360 Ave. 144, Tipton, CA 93272

<input checked="" type="checkbox"/>	Annual Report
<input checked="" type="checkbox"/>	Water Analysis Samples
<input checked="" type="checkbox"/>	Manure Manifest
<input checked="" type="checkbox"/>	Facility / Land Map
<input checked="" type="checkbox"/>	CCA Nitrogen Retrofit Report
<input type="checkbox"/>	
<input type="checkbox"/>	

GEO Tracker Confirmation #

Date:

Facility Info

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

Name of the Facility

Dairy Name: LegenDairy South
Facility Address: 8360 Ave. 144, Tipton, CA 93272
Original Operation Date: 1/1/1976
Facility APN's: x228 x025 x013 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:	-	-	175	-	-
Number Under Roof	-	-	-	-	-
Maximum Number			175	-	
Average Number			175	-	
Average Live Weight (lbs)			660	370	

Average Milk Production:

75

Predominant Milk Cow Breed:

Jersey

Manure Generated:

Total manure excreted by the herd:

212.16 @40% Moisture ton/yr

Total nitrogen from manure:

14,632 lbs

After Ammonia (30% loss applied)

1,463 lbs

5,546 lbs

- lbs

10,243 lbs per reporting period

Process Wastewater Generated:

Process wastewater generated:

- gal

Total nitrogen generated:

- lbs

- lbs

- lbs

Total salt (TDS) generated:

- lbs

List of Fresh Water Sources

[illegible]

Winter Crops & Harvest

[illegible]

*Detectable L Valley Tech
Dellavalle*

0.10%	0.05%	0.01%	0.05%
0.001%	0.01%	0.01%	0.001%

General Minerals

Detectable Limits

FGL Environmental/

55

Soil Analysis (Winter)

[illegible]

Detectable Limits

Valley Tech 0.1

0.1

Soil Analysis (Summer)

[illegible]

Detectable Limits

Valley Tech 0.1

DellaValle 0.1

0.1

0.1

1.1

0.2

0.0015

0.0001%

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	40.4	394.0	21.8	298.0	1.0	-	-	-	-	-	-	-	-	2	1,300
2	32.3	137.0	22.0	200.0	1.0	-	-	-	-	-	-	-	-	1	983
3	8.3	115.0	4.3	67.5	1.0	-	0.0	8.4	30.6	0.0	0.0	23.8	0.0	1	392
4	12.2	64.0	0.0	0.0	1.0	-	-	-	-	-	-	-	-	-	385

Detectable Limits

Valley Tech	2.0	5.0	0.1	0.2	0.01	0.05	0.4	0.10	0.9	3	0.01	0.03	0.10	10
Dellavalle	0.2	0.7	0.02	0.2	0.01								0.001	10

Qtr	Sample #:	Sample Date:	Source	lbs / Ac In			
				Inorg N	Org N	P2O5	K2O
1	3-24L44736	3/24/2023	Valley Tech	9.4	80.1	11.3	81.4
2	5-11L49502	5/11/2023	Valley Tech	7.5	23.7	11.4	54.6
3	8-17L62139	8/17/2023	Valley Tech	2.1	24.2	2.2	18.4
4	10-4L67886	10/4/2023	Valley Tech	3.0	11.7	0.0	0.0

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type
Manure	5-11M49475	5/11/2023	Dry Weight	Valley Tech	Corral Solids
Manure	10-4M67871	10/4/2023	Dry Weight	Valley Tech	Corral Solids

Dry Manure: (As Rec'd)	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	1.11	0.35	1.60	-	-	-	-	-	-	-	38.10
Corral	0.96	0.34	1.02	2.62	0.62	0.50	0.48	0.74	-	58.40	43.80

Detectable Limits

Valley Tech	0.01%	0.02%	0.02%	0.001%	0.001%	0.001%	0.001%	0.000%	0.001%	0.001%	0.001%
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%						

Field Name/Number:	8T-10	Acres:	125.00
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**Dry Weight
As Received**

**Dry Weight
As Received**

Field Name/Number: 8T-10Acres: 125

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	460.6	89.6	601.5	2414.3
Nutrients Removed at Harvest	-557.1	-115.8	-754.8	0.0
Nutrient Balance	-96.4	-26.2	-153.4	2414.3

Winter Nitrogen Crop App / Use Ratio: **0.92**Summer Nitrogen Crop App / Use Ratio: **1.21**Field Name/Number: 8T-10Acres: 125**Winter Crop Wheat, Silage**

Nutrient Summary :		Applied	N			
W. Manure App.		10.0	T/Ac	88.6	158.8	383.3
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	3.6	Ac In /Ac	227.4	41.1	294.1
	Q2	-	Ac In /Ac	-	-	-
Well Water		22.18	Ac In /Ac	0.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/21/22					
W. Harvest	5/30/23	25.2	T/Ac	(349.3)	(194.7)	(634.3)

Summer Crop Corn, Silage

Nutrient Summary :		Applied	N			
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		100.0	lbs/Ac	100.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	2.4	Ac In /Ac	44.5	5.4	44.4
	Q4	-	Ac In /Ac	-	-	-
Well Water		29.7	Ac In /Ac	100.06742		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	7/13/23					
S. Harvest	10/30/23	27.0	T/Ac	(207.8)	(70.5)	(271.5)

Nutrient Applications

Field Name/Number: 8T-11

Acres: 65.00

[illegible]

Field Name/Number: 8T-11Acres: 65.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	493.8	40.0	524.0	2582.1
Nutrients Removed at Harvest	-540.6	-56.5	-728.9	0.0
Nutrient Balance	-46.8	-16.5	-205.0	2582.1

Winter Nitrogen Crop App / Use Ratio: 1.12

Summer Nitrogen Crop App / Use Ratio: 1.13

Field Name/Number: 8T-11Acres: 65**Winter Crop** **Wheat, Silage**

Nutrient Summary :		Applied	N			
W. Manure App.		10.0	T/Ac	88.6	158.8	383.3
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	3.8	Ac In /Ac	236.5	42.7	305.8
	Q2	-	Ac In /Ac	-	-	-
Well Water		23.0	Ac In /Ac	0.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/1/22					
W. Harvest	5/25/23	25.1	T/Ac	(297.2)	(193.1)	(763.8)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied	N			
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		100.0	lbs/Ac	100.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	3.7	Ac In /Ac	68.5	8.3	68.3
	Q4	-	Ac In /Ac	-	-	-
Well Water		29.3	Ac In /Ac	100.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	7/2/23					
S. Harvest	10/16/23	27.4	T/Ac	(243.4)	(103.2)	(289.9)

Field Name/Number:	8T-12	Acres:	63.00
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Totals:

Field Name/Number: 8T-12Acres: 63.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	471.8	39.1	454.0	2454.9
Nutrients Removed at Harvest	-546.8	-53.4	-603.1	0.0
Nutrient Balance	-75.0	-14.3	-149.1	2454.9

Winter Nitrogen Crop App / Use Ratio: 0.97

Summer Nitrogen Crop App / Use Ratio: 1.23

Field Name/Number: 8T-12Acres: 63**Winter Crop Wheat, Silage**

Nutrient Summary :		Applied	N			
W. Manure App.		10.0 T/Ac	88.6	158.8	383.3	
W. Comm Fert App.		- lbs/Ac	-			
Process Water	Q1	1.2 Ac In /Ac	76.9	13.9	99.5	
	Q2	2.4 Ac In /Ac	149.5	27.2	129.7	
Well Water		- Ac In /Ac	-			
Canal		- Ac In /Ac	-			
Atm. Depos.		Yes	7.0			
W. Planting	11/7/23					
W. Harvest	6/1/23	25.8 T/Ac	(332.7)	(182.9)	(625.5)	

Summer Crop Corn, Silage

Nutrient Summary :		Applied	N			
S. Manure App.		- T/Ac	-	-	-	
S. Comm Fert App.		100.0 lbs/Ac	100.0	-	-	
Process Water	Q2	- Ac In /Ac	-	-	-	
	Q3	2.4 Ac In /Ac	43.9	5.3	43.8	
	Q4	1.2 Ac In /Ac	12.8	0.0	0.0	
Well Water		34.8 Ac In /Ac	100.1			
Canal		- Ac In /Ac	-			
Atm. Depos.		Yes	7.0			
S. Planting	7/13/23					
S. Harvest	10/29/23	27.3 T/Ac	(214.1)	(97.2)	(246.3)	

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 during 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 facility NMP updated in the reporting period?

Yes

Was the facility's NMP developed and approved by a certified nutrient management specialist?

Yes

Written Agreements:

Are there any written agreements with third parties to receive manure or process water that are new or were revised within the reporting 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

Date

Date

March 9, 2023

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

Lab No. : VI 2340559

Customer No. : 4018505

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	(2 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: 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
Dairy Well #1	01/31/2023	01/31/2023	VI 2340559-001	DW
Dairy Well #2	01/31/2023	01/31/2023	VI 2340559-002	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

EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	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)

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: 2023-03-09

March 9, 2023

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

Description : Dairy Well #1
 Project : W-4 Legen Dairy South

Lab No. : VI 2340559-001
 Customer No.: 4018505

Sampled On : January 31, 2023 at 09:22
 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			
Dairy Analysis													
							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO3)	290	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	18:37	amm
Bicarbonate	360	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	18:37	amm
Carbonate	ND	10	mg/L		1	U	02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	18:37	amm
Hydroxide	ND	10	mg/L		1	U	02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	18:37	amm
Chloride	47	1	mg/L	500 ²	1	b	02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	18:19	ldm
Nitrate Nitrogen	24.1	0.3*	mg/L	10	3		02/01/2023	10:30	ldm	EPA 300.0	02/02/2023	00:14	ldm
Conductivity	923	1	umhos/cm	1600 ²	1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	18:37	amm
Sulfate	34.6	0.5	mg/L	500 ²	1		02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	18:19	ldm
Solids, Total Dissolved (TDS)	600	20	mg/L	1000 ²	1		02/02/2023	13:49	ctl	SM 2540 C	02/03/2023	12:20	ctl
Calcium	93	1	mg/L		1		02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:43	ac
Magnesium	14	1	mg/L		1	1	02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:43	ac
Sodium	55	1	mg/L		1		02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:43	ac

DQF Flags Definition:

- U Constituent results were non-detect.
- b The Blank was positive for constituent but less than the PQL
- 1 The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

March 9, 2023

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

Lab No. : VI 2340559-002
Customer No.: 4018505

Description : Dairy Well #2
Project : W-4 Legen Dairy South

Sampled On : January 31, 2023 at 09:25
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			
Dairy Analysis													
							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO3)	290	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	19:08	amm
Bicarbonate	360	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	19:08	amm
Carbonate	ND	10	mg/L		1	U	02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	19:08	amm
Hydroxide	ND	10	mg/L		1	U	02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	19:08	amm
Chloride	47	1	mg/L	500 ²	1	b	02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	17:59	ldm
Nitrate Nitrogen	19.1	0.3*	mg/L	10	3		02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	23:54	ldm
Conductivity	921	1	umhos/cm	1600 ²	1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	19:08	amm
Sulfate	34.5	0.5	mg/L	500 ²	1		02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	17:59	ldm
Solids, Total Dissolved (TDS)	600	20	mg/L	1000 ²	1		02/02/2023	13:49	ctl	SM 2540 C	02/03/2023	12:14	ctl
Calcium	130	1	mg/L		1		02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:49	ac
Magnesium	15	1	mg/L		1	1	02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:49	ac
Sodium	59	1	mg/L		1		02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:49	ac

DQF Flags Definition:

- U Constituent results were non-detect.
- b The Blank was positive for constituent but less than the PQL
- 1 The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

March 9, 2023
 Livingston Dairy Consulting, Inc.

Lab No. : VI 2340559
 Customer No. : 4018505

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	02/23/2023:202002EJC (CC 2380566-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	101 %	85-115	
			MS	mg/L	12.00	-71.2 %	<¼	
			MSD	mg/L	12.00	50.4 %	<¼	
			MSRPD	mg/L	0.8000	15.7%	≤20.0	
			MS	mg/L	12.00	-81.6 %	<¼	
			MSD	mg/L	12.00	-76.0 %	<¼	
			MSRPD	mg/L	0.8000	0.8%	≤20.0	
			Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	99.5 %	85-115	
Magnesium	200.7	02/23/2023:202002EJC (CC 2380566-001)	MS	mg/L	12.00	13.9 %	75-125	435
			MSD	mg/L	12.00	71.5 %	75-125	435
			MSRPD	mg/L	0.8000	15.5%	≤20	
			MS	mg/L	12.00	-4.1 %	75-125	435
			MSD	mg/L	12.00	-11.4 %	75-125	435
			MSRPD	mg/L	0.8000	1.9%	≤20	
		02/23/2023:202002EJC (CC 2380566-002)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	98.4 %	85-115	
			MS	mg/L	12.00	-162 %	<¼	
			MSD	mg/L	12.00	1540 %	<¼	
Sodium	200.7	02/23/2023:202002EJC (CC 2380566-001)	MSRPD	mg/L	0.8000	15.8%	≤20.0	
			MS	mg/L	12.00	-2490 %	<¼	
			MSD	mg/L	12.00	-3160 %	<¼	
			MSRPD	mg/L	0.8000	7.6%	≤20.0	

Definition

- <¼ : High Sample Background - Spike concentration was less than one forth of the sample concentration.
- 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.
- 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 analyte. 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.

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

March 9, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2340559

Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO ₃)	2320B	02/05/2023:201253AMM	ND	mg/L		2.32%	10	435
Bicarbonate	2320B	(VI 2340442-002)	Dup	mg/L		2.23%	10	
E. C.	2320B	(VI 2340442-002)	Dup	umhos/cm		0.4%	5	
Solids, Total Dissolved	2540CE	02/02/2023:201179CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	101 %	90-110	
		(VI 2340550-002)	Dup	mg/L		0.4%	5	
		(VI 2340550-002)	Dup	mg/L		0.5%	5	
Chloride	300.0	02/01/2023:201132LDM	Blank	mg/L		1	<1	
			LCS	mg/L	25.00	96.7 %	90-110	
			MS	mg/L	50.00	102 %	85-121	
		(VI 2340463-001)	MSD	mg/L	50.00	92.1 %	85-121	
			MSRPD	mg/L	10.00	9.6%	≤19	
			MS	mg/L	50.00	91.4 %	85-121	
		(SP 2301318-002)	MSD	mg/L	50.00	99.2 %	85-121	
			MSRPD	mg/L	10.00	6.6%	≤19	
Nitrate Nitrogen	300.0	02/01/2023:201132LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	96.5 %	90-110	
			MS	mg/L	40.00	101 %	85-119	
		(VI 2340463-001)	MSD	mg/L	40.00	91.6 %	85-119	
			MSRPD	mg/L	10.00	8.1%	≤19	
			MS	mg/L	40.00	93.9 %	85-119	
		(SP 2301318-002)	MSD	mg/L	40.00	102 %	85-119	
			MSRPD	mg/L	10.00	7.0%	≤19	
Sulfate	300.0	02/01/2023:201132LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	98.2 %	90-110	
			MS	mg/L	100.0	103 %	82-124	
		(VI 2340463-001)	MSD	mg/L	100.0	93.1 %	82-124	
			MSRPD	mg/L	10.00	9.4%	≤23	
			MS	mg/L	100.0	94.8 %	82-124	
		(SP 2301318-002)	MSD	mg/L	100.0	103 %	82-124	
			MSRPD	mg/L	10.00	8.1%	≤23	

Definition

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

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Special



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-4 Legend Dairy South		Purchase Order Number:		Quote Number: VI 20210208-01		Sampler(s) Marlene & Kaylin		Sampling Fee: Pickup Fee: Time: / /		Compositor Setup Date: / / Time: / /		Lab Number: VI 2340559 4-18505	
Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample	Batch Type: Other(O) System(SYS) Source(SR) Waste(W)	Batch Reason: Routine(ROUT) Repeat(RPT) Replace(RPL)	Other(O) Special(SPL)	Dairy Analysis: W-4-Alk. (CaCO3), Cl, Conductivity, NO3-N, TDS, SO4, Ca, Na, Mg 16oz(P)	TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information							
1	Dairy Well #1	1/31	9:22 AM	G	DN P												
2	Dairy Well #2	1/31	9:25 AM	G	DN P												
3				G													
4				G													
5				G													
6				G													
7				G													
8				G													
9				G													
10				G													

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
Marlene & Kaylin	1/31/23	1:30	Relinquished	1/31/23	1403	Relinquished	1/31/23	1403
Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:
Relinquished	1/31/23	1:30	Relinquished	1/31/23	1403	Relinquished	1/31/23	1403

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5618
Fax: (530) 343-3807

Office & Laboratory
3442 Empressa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

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 # CTL

2. Were samples received in a chilled condition? Temps: 20.1 / 4.3 / / /

Surface water SWTR bact samples: A sample that has a temperature upon receipt of $>10^{\circ}\text{C}$, 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? | <u>Yes</u> | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <u>Yes</u> | No | |
| 5. VOAs checked for Headspace? | Yes | No | <u>N/A</u> |
| 6. Were sample custody seals intact? | Yes | No | <u>N/A</u> |
| 7. If required, was sample split for pH analysis? | Yes | No | <u>N/A</u> |
| 8. Were all analyses within holding times at time of receipt? | <u>Yes</u> | No | |
| 9. Verify sample date, time and sampler name | <u>Yes</u> | 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):

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 20 / / / /

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

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

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

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials):

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 co contacts)

(4018505)
Livingston Dairy Consulting, Inc.

VI 2340559

iv 02/01/2023 09:28:14



UT 2340559

July 17, 2023

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

Lab No. : VI 2344098
Customer No. : 4018505

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	(1 page)	: Results for each sample submitted.
Quality Control	(2 pages)	: 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 #6	07/06/2023	07/06/2023	VI 2344098-001	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 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	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)

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: KEH

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-07-17

July 17, 2023

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

Description : Well #6
 Project : W-4 Legen Dairy South

Lab No. : VI 2344098-001

Customer No. : 4018505

Sampled On : July 6, 2023 at 10:17

Sampled By : Marlene

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
Alkalinity (as CaCO3)	90	10	mg/L		1		07/11/2023	16:42	amm	SM 4500-H+B	07/11/2023	22:54	amm
Bicarbonate	80	10	mg/L		1		07/11/2023	16:42	amm	SM 4500-H+B	07/11/2023	22:54	amm
Carbonate	10	10	mg/L		1		07/11/2023	16:42	amm	SM 4500-H+B	07/11/2023	22:54	amm
Hydroxide	10	10	mg/L		1		07/11/2023	16:42	amm	SM 4500-H+B	07/11/2023	22:54	amm
Chloride	9	1	mg/L		1		07/07/2023	16:18	ldm	EPA 300.0	07/08/2023	03:44	ldm
Nitrate Nitrogen	ND	0.1	mg/L		1	J	07/07/2023	16:18	ldm	EPA 300.0	07/08/2023	03:44	ldm
Conductivity	217	1	umhos/cm		1		07/11/2023	16:42	amm	SM 4500-H+B	07/11/2023	22:54	amm
Sulfate	8.3	0.5	mg/L		1		07/07/2023	16:18	ldm	EPA 300.0	07/08/2023	03:44	ldm
Solids, Total Dissolved (TDS)	160	20	mg/L		1		07/10/2023	15:00	ctl	SM 2540 C	07/11/2023	11:00	ctl
Calcium	3	1	mg/L		1		07/12/2023	06:01	ejc	EPA 200.7	07/12/2023	17:58	ac
Magnesium	ND	1	mg/L		1	J	07/12/2023	06:01	ejc	EPA 200.7	07/12/2023	17:58	ac
Sodium	44	1	mg/L		1		07/12/2023	06:01	ejc	EPA 200.7	07/12/2023	17:58	ac

DQF Flags Definition:

J Reported value is estimated; detected at a concentration below the RL and above the laboratory MDL.

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

July 17, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344098

Customer No. : 4018505

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Calcium	200.7	07/12/2023:207602EJC (SP 2311703-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	104%	85-115	
			MS	mg/L	12.00	89.3%	75-125	
			MSD	mg/L	12.00	107%	75-125	
			MSRPD	mg/L		7.0%	≤20.0	
Magnesium	200.7	07/12/2023:207602EJC (SP 2311663-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	108%	85-115	
			MS	mg/L	12.00	193%	<¼	406
			MSD	mg/L	12.00	72.2%	<1/4	
			MSRPD	mg/L		8.2%	≤20	
		(SP 2311703-001)	MS	mg/L	12.00	103%	75-125	
			MSD	mg/L	12.00	106%	75-125	
			MSRPD	mg/L		2.4%	≤20	
			Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	103%	85-115	
Sodium	200.7	07/12/2023:207602EJC (SP 2311703-001)	MS	mg/L	12.00	42.7%	<¼	406
			MSD	mg/L	12.00	132%	<1/4	
			MSRPD	mg/L		12.0%	≤20.0	

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.
- 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 analyte. 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.

Explanation

- 406** : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

July 17, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344098

Customer No. : 4018505

Quality Control - Wet Chem


Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO ₃)	2320B	07/11/2023:207581AMM	ND	mg/L		0.6%	10	406
Bicarbonate	2320B	(VI 2344506-003)	Dup	mg/L		1%	10	
E. C.	2320B	(VI 2344506-003)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	07/10/2023:207515CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	99.9%	90-110	
		(SP 2311505-003)	Dup	mg/L		1.60%	5	
		(SP 2311505-003)	Dup	mg/L		2.99%	5	
Chloride	300.0	07/07/2023:207466LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	101 %	90-110	
			MS	mg/L	50.00	100 %	85-121	
		(VI 2344110-001)	MSD	mg/L	50.00	98.2 %	85-121	
			MSRPD	mg/L	10.00	1.9%	≤19	
			MS	mg/L	50.00	100 %	85-121	
		(VI 2344098-001)	MSD	mg/L	50.00	98.6 %	85-121	
			MSRPD	mg/L	10.00	1.6%	≤19	
Nitrate Nitrogen	300.0	07/07/2023:207466LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	101 %	90-110	
			MS	mg/L	40.00	103 %	85-119	
		(VI 2344110-001)	MSD	mg/L	40.00	100 %	85-119	
			MSRPD	mg/L	10.00	2.3%	≤19	
			MS	mg/L	40.00	103 %	85-119	
		(VI 2344098-001)	MSD	mg/L	40.00	101 %	85-119	
			MSRPD	mg/L	10.00	1.9%	≤19	
Sulfate	300.0	07/07/2023:207466LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	102 %	90-110	
			MS	mg/L	100.0	102 %	82-124	
		(VI 2344110-001)	MSD	mg/L	100.0	99.8 %	82-124	
			MSRPD	mg/L	10.00	2.1%	≤23	
			MS	mg/L	100.0	103 %	82-124	
		(VI 2344098-001)	MSD	mg/L	100.0	101 %	82-124	
			MSRPD	mg/L	10.00	1.7%	≤23	

Definition

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

Explanation

- 406** : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

				42085-03/01/2022				TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information												
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: <u>W-4 Legend Dairy South</u> Purchase Order Number: Quote Number: VI 20210208-01 Sampler(s) <u>Martene</u> Sampling Fee: Pickup Fee: Time: / / Compositor Setup Date: / / Time: / /				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-4-Alk. (CaCO3), Cl, Conductivity, NO3-N, TDS, SO4, Ca, Na, Mg 16oz(P)																
Lab Number:	VI 2344098			4-18505																
Samp Num	Location Description	Date Sampled	Time Sampled																	
1	Well #6	7/6	10:17AM	G	AgW NP															
2				G																
3				G																
4				G																
5				G																
6				G																
7				G																
8				G																
9				G																
10				G																
Remarks:				Relinquished Date: Time: 7/6/23 1055 Received By: <u>Buyer</u>				Relinquished Date: Time: 7/6/23 1055 Received By: <u>Buyer</u>				Relinquished Date: Time: 7/6/23 1730 Received By: <u>GILS</u>								

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

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

2. Were samples received in a chilled condition? Temps: 201 / 8.6 / _____ / _____ / _____

Surface water SWTR bact samples: A sample that has a temperature upon receipt of $>10^{\circ}\text{C}$, 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): SRC

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 32 / _____ / _____ / _____ / _____

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: 59719161 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? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]

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): VDC

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 con-
tacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2344098

iv 07/07/2023 07:23:31



VI 2344098

2023 Canal Results

558TRA144 - Tule River at Road 144

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				
EC	BSK	700			umhos/cm				151.2	115.3					
pH	BSK	6.5-8.3			pH				7.59	6.5					
Temperature	BSK				Celsius				10	11.3					
Dissolved Oxygen	BSK	Min. 7.0			mg/L				10.87	12.7					
TDS	BSK	450	4.4	10	mg/L				30	50					
Turbidity	BSK			0.1	NTU				56	15					
Nitrate + Nitrite as N	BSK	10	0.028	0.2	mg/L				1.3	0.24					
Orthophosphate-P	BSK		0.0051	0.6	mg/L				1.9	0.019					
Ammonia-N	BSK	1.5	0.05	0.5	mg/L				ND	ND					
Unionized Ammonia	BSK				mg/L				ND	ND					
TKN	BSK		0.267	0.5	mg/L				0.17	0.43					
Phosphorus	BSK		8.1	50	ug/L				1.8	0.044					
Arsenic	BSK	10	0.041	0.2	ug/L				2.2	1.7					
Boron	BSK	700	4.5	10	ug/L				30	23					
Cadmium	BSK	5	0.025	0.2	ug/L				ND	ND					
Copper	BSK	1300	0.36	0.5	ug/L				3.3	5					
Lead	BSK	15	0.034	0.2	ug/L				1.4	0.63					
Nickel	BSK	100	0.2	0.5	ug/L				1.5	0.79					
Selenium	BSK	50	0.29	1	ug/L				1.1	0.33					
Zinc	BSK		0.68	20	ug/L				7.1	3.9					
Molybdenum	BSK	10	0.15	0.5	ug/L				1.5	1.2					
Hardness	BSK		1	1	mg/L				58	22					
TSS	BSK		na	10	mg/L				30	32					
TOC	BSK		0.085	0.5	mg/L				3.1	3.2					
E. coli	BSK	235		1.1	MPN				130	4.5					
Fecal Coliform	BSK	400		1.1	MPN				130	4.5					
Toxicity, minnow	ABC				96h				100	100					
Toxicity, water flea	ABC				48h				100	100					
Toxicity, algae	ABC				48h				100	100					
2,4-D Acids & Salts	BSK														

**Facility Name:**

2023

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:

Sample Preservation Method: (Circle one)

Refrigerator

Ice Pack



Livingston Dairy Consulting, Inc.

1635 E. Prosperity Ave. Ste. B

Tulare, CA 93274

559-687-1440

Sunday, April 14, 2024

Re: 2023 NMP

LegenDairy South

8360 Ave. 144, Tipton, CA 93272

Enclosed is the 2023/2024 Nutrient Budget for your facility to comply with the California Regional Water Quality Control Board General Order No. R5-2007-0035.

*2023 Whole Farm Nitrogen Balance

The whole farm nitrogen balance for the crop year 2022 was **0.72**
Nitrogen Summary will show the balances for each field and for the whole farm.

*Ranges for the Whole Farm Nitrogen Balance

<u>Factor</u>	<u>Status</u>	<u>Evaluation</u>
> 1.65	Excessive	Too much nitrogen applied
1.4 - 1.65	Slightly High	Nitrogen is satisfactory to slightly high
0.9 - 1.4	Normal	Normal to slightly low
< 0.9	Low	Low nitrogen status, additional nitrogen needed

*Nutrient Management Plan/ Nutrient Budget Certification

This Nutrient Budget was prepared by a Certified Crop Advisor as required by the California Regional Water Quality Control Board.



Butch Brazil

Certified Crop Advisor #35629

This Nutrient Management Plan / Nutrient Budget is based on samples collected and analyzed by a third party laboratory. This Certified Crop Advisor was not involved in oversight of outside laboratory sample collection, transportation, or analyses. Interpretation of the data is based on submitted information. Where data was incomplete, book values and / or historical data was used. The third party laboratory or Certified Crop Advisor was not involved with the agronomic growth of the crops and the Nutrient Budget is based on information provided by the owner.

