



Livingston Dairy Consulting, Inc.

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

Tulare High School Farm WDID 5C54NC00269

591 W. Bardsley Tulare, CA 93274

<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: Tulare High School Farm WDID 5C54NC00269
Facility Address: 591 W. Bardsley Tulare, CA 93274
Original Operation Date: 9/9/1942
Facility APN's: x174 x020 x008 xxxx
RWQCB Basin Plan Designation: Tulare Lake Basin ☐ Check if any information has changed

Owner(s)

Owner(s) Name: Tulare Union High School District
Mailing Address: 426 Blackstone Tulare, CA 93274
Home Phone Number: 559-686-2021
Cell Phone Number: ☐ Check if any information has changed

Operator(s)

Operator(s) Name: Tulare High School Farm
Mailing Address: 591 W. Bardsley Tulare, CA 93274
Home Phone Number: 559-687-7390
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:	-	-	34	-	-
Number Under Roof	-	-	-	-	-
Maximum Number			34		
Average Number			34		
Average Live Weight (lbs)					

Average Milk Production:

Predominant Milk Cow Breed: Holstein

Manure Generated:

Total manure excreted by the herd:

Total nitrogen from manure:

129.75	@40% Moisture	ton/yr
6,663		lbs
548		lbs
2,553		lbs
-		lbs

After Ammonia (30% loss applied)

4,664 lbs per reporting period

Total salt from manure:

Process Wastewater Generated:

Process wastewater generated:

Total nitrogen generated:

Total salt (TDS) generated:

-	gal
-	lbs
-	lbs
-	lbs
-	lbs

List of Land Application Areas

Field Name	APN	APN Acres	Cropable Acres	Total Harvest	Type of Waste Applied
Pasture (1-101)	x174 x020 x008 xxxx	80	5	0	N/A
1 (1-102)	x174 x020 x008 xxxx		23	2	P.W. & D.M.
2 (1-103)	x174 x020 x008 xxxx		19	1	P.W. & D.M.
3 (1-104)	x174 x280 x003 xxxx, x174 x290 x002 xxxx	18	17	2	P.W. & D.M.
Total Crop Acres			64.00		

List of Fresh Water Sources

[illegible]

General Minerals

Detectable Limits

FGL Environmental

Soil Analysis (Winter)

[illegible]

Detectable Limits

Valley Tech

DellaValle

0.1

0.1

0.1

1.1

0.2

0.0015

0.0001%

Soil Analysis (Summer)

[illegible]

Detectable Limits

Valley Tech

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?

**No
X**

Yes, Manifest attached (Attachment D)

Total Dry Manure Exported

Nutrient Import

No Dry manure nutrient imports entered

No Process wastewater nutrient imports entered

No Commerical or other nutrient imports entered

Total Process Water Exported

[illegible]

Process Water & Manure Analysis

Process Water															
	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)
Quarters:															
1	22.5	324.0	22.5	386.0	1.0	-	-	-	-	-	-	-	-	2	1,350
2	57.0	388.0	60.0	484.0	1.0	-	-	-	-	-	-	-	-	3	2,030
3	88.5	167.0	18.5	109.0	1.0	-	0.0	21.9	62.9	0.0	9.4	53.8	2.2	2	1,180
4	5.2	131.0	0.0	0.0	1.0	-	-	-	-	-	-	-	-	-	325

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										0.001	10

Qtr	Sample #:	Sample Date:	Source	lbs / Ac In				
				Inorg N	Org N	P2O5	K2O	
1	3-24L44731	3/24/2023	Valley Tech	5.3	68.3	11.7	105.4	
2	5-11L49514	5/11/2023	Valley Tech	13.1	75.0	31.2	132.2	
3	8-17L62143	8/17/2023	Valley Tech	20.3	17.8	9.6	29.8	
4	10-3L67882	10/16/2023	Valley Tech	1.4	28.5	0.0	0.0	

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type
Manure	5-11M49477	5/11/2023	Dry Weight	Valley Tech	Corral Solids
Manure	10-3M67866	10/13/2023	Dry Weight	Valley Tech	Corral Solids

Dry Manure: (As Recv'd)											
	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	0.76	0.24	0.56	-	-	-	-	-	-	-	57.90
Corral	0.78	0.19	1.41	1.67	0.47	0.64	0.53	1.44	-	65.80	48.10

Detectable Limits

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

Nutrient Applications

Field Name/Number: **Pasture (1-101)**

Acres: **5.00**

[illegible]

Dry Weight
As Received

Field Name/Number: Pasture (1-101)Acres: 5

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	0.0	0.0	0.0	0.0
Nutrient Balance	0.0	0.0	0.0	0.0

Winter Nitrogen Crop App / Use Ratio: #N/A

Summer Nitrogen Crop App / Use Ratio: #N/A

Field Name/Number: Pasture (1-101) Acres: 5

Winter Crop		W. Fallow				
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	#N/A					
W. Harvest	1/1/2000	#N/A	T/Ac	#N/A	#N/A	#N/A

Summer Crop		S. Fallow				
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.		Yes		7.0		
S. Planting	#N/A					
S. Harvest	-	#N/A	T/Ac	#N/A	#N/A	#N/A

Acres: **23.00**

Totals:

Field Name/Number: 1 (1-102)Acres: 23.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	362.2	3.9	81.7	2328.4
Nutrients Removed at Harvest	-529.1	-49.8	-532.8	0.0
Nutrient Balance	-166.8	-45.9	-451.1	2328.4

Winter Nitrogen Crop App / Use Ratio: 1.01

Summer Nitrogen Crop App / Use Ratio: 1.17

Field Name/Number: 1 (1-102)Acres: 23

Winter Crop		Wheat, Silage				
Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		90.0	lbs/Ac	90.0		
Process Water	Q1	0.8	Ac In /Ac	40.9	9.3	83.2
	Q2	-	Ac In /Ac	-	-	-
Well Water		25.8	Ac In /Ac	125.7		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/17/22					
W. Harvest	6/4/23	18.9	T/Ac	(262.0)	(115.9)	(472.7)

Summer Crop		Corn, Silage				
Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		110.0	lbs/Ac	110.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	1.2	Ac In /Ac	31.4	11.3	34.9
	Q4	-	Ac In /Ac	-	-	-
Well Water		39.3	Ac In /Ac	164.3		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/17/23					
S. Harvest	10/5/23	27.6	T/Ac	(267.1)	(145.6)	(297.6)

Acres: 19.00

Totals:

Field Name/Number: 2 (1-103)Acres: 19.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	159.7	1.9	61.7	966.0
Nutrients Removed at Harvest	-237.2	-20.0	-336.2	0.0
Nutrient Balance	-77.6	-18.1	-274.5	966.0

Winter Nitrogen Crop App / Use Ratio:

1.04

Summer Nitrogen Crop App / Use Ratio:

#N/A

Field Name/Number: 2 (1-103)Acres: 19**Winter Crop** **Wheat, Silage**

Nutrient Summary :		Applied	N			
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		80.0	lbs/Ac	80.0		
Process Water	Q1	0.8	Ac In /Ac	43.8	9.9	89.1
	Q2	-	Ac In /Ac	-	-	-
Well Water		26.0	Ac In /Ac	115.9		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/17/22					
W. Harvest	6/4/23	18.3	T/Ac	(237.2)	(104.8)	(486.0)

Summer Crop **S. Fallow**

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.		Yes		7.0		
S. Planting	#N/A					
S. Harvest	-	#N/A	T/Ac	#N/A	#N/A	#N/A

Acres: 17.00

Totals:

Field Name/Number: 3 (1-104)Acres: 17.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	353.9	4.1	84.7	2330.3
Nutrients Removed at Harvest	-514.2	-47.2	-533.9	0.0
Nutrient Balance	-160.3	-43.1	-449.2	2330.3

Winter Nitrogen Crop App / Use Ratio: 1.03

Summer Nitrogen Crop App / Use Ratio: 1.13

Field Name/Number: 3 (1-104) Acres: 17

Winter Crop	Wheat, Silage	Applied	N			
Nutrient Summary :						
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		80.0	lbs/Ac	80.0		
Process Water	Q1	0.8	Ac In /Ac	42.2	9.6	86.0
	Q2	-	Ac In /Ac	-	-	-
Well Water		25.7	Ac In /Ac	115.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/17/22					
W. Harvest	6/4/23	17.8	T/Ac	(237.5)	(97.8)	(445.0)

Summer Crop	Corn, Silage	Applied	N			
Nutrient Summary :						
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		110.0	lbs/Ac	110.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	1.2	Ac In /Ac	32.7	11.8	36.4
	Q4	-	Ac In /Ac	-	-	-
Well Water		38.7	Ac In /Ac	163.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/17/23					
S. Harvest	10/5/23	26.9	T/Ac	(276.7)	(149.7)	(326.8)

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?

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 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.*

 for Tulare Union HS

Signature of Owner of Facility

 for Tulare High School Farm

Signature of Operator of Facility

Tulare Union High School District

Print Name

Tulare High School Farm

Print Name

5/1/24

Date

5/1/24

Date

February 17, 2023

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

Lab No. : VI 2340557

Customer No. : 4018505

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
Dom	01/31/2023	01/31/2023	VI 2340557-001	DW

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-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
	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

February 17, 2023

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

Description : Dom
 Project : W-6 Tulare High School

Lab No. : VI 2340557-001

Customer No. : 4018505

Sampled On : January 31, 2023 at 08:20

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
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	17:15	lcr
Nitrate Nitrogen	0.4	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:32	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	17:15	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	15:32	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/14/2023	10:47	sta	EPA 351.2	02/15/2023	17:15	lcr
Conductivity	205	1	umhos/cm	1600 ²	1		02/09/2023	14:28	sta		02/09/2023	14:28	sta
Solids, Total Dissolved (TDS)	130	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.

February 17, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2340557

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 (STK2331345-001)	Blank Dup	umhos/cm umhos/cm		ND 0.6%	<1 5	
Solids, Total Dissolved	2540CE	02/02/2023:201179CTL (SP 2301488-001) (SP 2301488-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	990.8	ND 103 % 2.2% 0.4%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	02/14/2023:201629STA (SP 2301580-001) (CH 2370584-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 94.3% 99.4% 95.8% 3.7% 97.9% 94.8% 3.1%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	02/01/2023:201107LFS (VI 2340568-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609	ND 93.8% 90.4% 90.2% 0.1%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	02/01/2023:201107LFS (VI 2340568-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609	ND 93.8% 90.4% 90.2% 0.1%	<0.4 80-120 66-125 66-125 ≤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 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.

Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Table 1

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: 21.4.3 / 1 / 1 / 1
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? | <input checked="" type="radio"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> Yes | No | |
| 5. VOAs checked for Headspace? | <input checked="" type="radio"/> Yes | No | <input checked="" type="radio"/> N/A |
| 6. Were sample custody seals intact? | <input checked="" type="radio"/> Yes | No | <input checked="" type="radio"/> N/A |
| 7. If required, was sample split for pH analysis? | <input checked="" type="radio"/> Yes | No | <input checked="" type="radio"/> N/A |
| 8. Were all analyses within holding times at time of receipt? | <input checked="" type="radio"/> Yes | No | |
| 9. Verify sample date, time and sampler name | <input checked="" type="radio"/> 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): [Signature]

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 21 / 1 / 1 / 1
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: 558722543 540
584

- | | | | |
|---|--------------------------------------|----|--------------------------------------|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="radio"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> Yes | No | |
| 5. Were sample custody seals intact? | <input checked="" type="radio"/> Yes | No | <input checked="" type="radio"/> 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? | <input checked="" type="radio"/> Yes | No | |
| 2. Did bottle labels correspond with the client's ID's? | <input checked="" type="radio"/> Yes | No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | <input checked="" type="radio"/> Yes | No | N/A FGL |
| 4. VOAs checked for Headspace? | <input checked="" type="radio"/> Yes | No | <input checked="" type="radio"/> N/A |
| 5. Have rush or project due dates been checked and accepted? | <input checked="" type="radio"/> Yes | No | <input checked="" type="radio"/> N/A |
| 6. Were all analyses within holding times at time of receipt? | <input checked="" type="radio"/> 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 2340557

iv 02/01/2023 09:28:08



VI 2340557

Tulare High School

October 12, 2023

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

Lab No. : VI 2346476

Customer No. : 4018505

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
Well #1	09/26/2023	09/26/2023	VI 2346476-001	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: JRD

Approved By **Kelly A. Dunnahoo, B.S.**


 Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-10-12

October 12, 2023

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

Description : Well #1
 Project : W-6 Tulare High School

Lab No. : VI 2346476-001
 Customer No.: 4018505

Sampled On : September 26, 2023 at 10:23
 Sampled By : Marlene Ferreira
 Received On : September 26, 2023 at 15:40
 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	4.4	0.5	mg/L		1		10/06/2023	09:12	sta	EPA 351.2	10/10/2023	16:00	lcr
Nitrate Nitrogen	6.1	0.4	mg/L		1		09/27/2023	12:30	lfs	SM 4500-NO3 F	09/27/2023	13:58	lfs
Nitrogen, Total as Nitrogen	10.5	0.5	mg/L		1		10/06/2023	09:12	sta	Calc.	10/10/2023	16:00	lcr
Nitrate + Nitrite as N	6.1	0.4	mg/L		1		09/27/2023	12:30	lfs	SM 4500-NO3 F	09/27/2023	13:58	lfs
Kjeldahl Nitrogen	4.4	0.5	mg/L		1		10/06/2023	09:12	sta	EPA 351.2	10/10/2023	16:00	lcr
Conductivity	326	1	umhos/cm		1		10/05/2023	04:20	krh	SM 4500-H+B	10/05/2023	19:08	krh
Solids, Total Dissolved (TDS)	200	20	mg/L		1		09/28/2023	10:00	ctl	SM 2540 C	09/29/2023	15:00	ctl

DQF Flags Definition:

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

October 12, 2023
 Livingston Dairy Consulting, Inc.

Lab No. : VI 2346476
 Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2346585-002)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	09/28/2023:210921CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	101%	90-110	
			Dup	mg/L		0.3%	5	
			Dup	mg/L		1.87%	5	
Nitrogen, Total Kjeldahl	351.2	10/06/2023:211241STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	91.2%	73-124	
			MS	mg/L	12.00	91.9%	90-110	
			(CH 2378308-007)	MSD	mg/L	91.7%	90-110	
			MSRPD	mg/L		0.1%	≤20	
			MS	mg/L	12.00	92.6%	90-110	
			(CH 2378308-008)	MSD	mg/L	92.3%	90-110	
			MSRPD	mg/L		0.4%	≤20	
Nitrate + Nitrite as N	4500NO3F	09/27/2023:210858LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	99.0%	80-120	
			MS	mg/L	5.609	95.3%	66-125	
			(STK2353327-001)	MSD	mg/L	99.2%	66-125	
			MSRPD	mg/L		2.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	09/27/2023:210858LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	99.0%	80-120	
			MS	mg/L	5.609	95.3%	66-125	
			(STK2353327-001)	MSD	mg/L	99.2%	66-125	
			MSRPD	mg/L		2.1%	≤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 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.



TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information																																													
42086-03/01/2022																																													
<p>Client: Livingston Dairy Consulting, Inc.</p> <p>Address: Livingston Dairy Consulting, Inc 1635 E. Prosperity Suite B Tulare, CA 93274</p> <p>Phone: (559)687-1440 Fax:</p> <p>Contact Person: Noreen Livingston</p> <p>Project Name: W-6 Tulare High School</p> <p>Purchase Order Number:</p> <p>Quote Number: VI 20210208-01</p> <p>Sampler(s): Martene</p> <p>Sampling Fee: Pickup Fee:</p> <p>Compositor Setup Date: / / Time: /</p> <p>Lab Number: VI 2346476 4-18505</p> <table border="1"> <thead> <tr> <th>Sample Num</th> <th>Location Description</th> <th>Date Sampled</th> <th>Time Sampled</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Well #1</td> <td>9/26</td> <td>10:23 AM</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sample Num	Location Description	Date Sampled	Time Sampled	1	Well #1	9/26	10:23 AM	2				3				4				5				6				7				8				9				10				<p>Method of Sampling: Composite(C) Grab(G)</p> <p>Type of Sample: **SEE REVERSE SIDE**</p> <p>Potable(P) Non-Potable(NP) Ag Water(AgW)</p> <p>Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)</p> <p>Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL)</p> <p>Other(O) Special(SPL)</p> <p>Dairy Analysis-W-6-Conductivity, NO3-N, Total N, TDS</p> <p>16oz(P)</p> <p>Sampling-W-6 - Total N - Split Bottle</p> <p>8oz(P)-H2SO4</p> <p>***VI Lab to Split for Total N***</p>
Sample Num	Location Description	Date Sampled	Time Sampled																																										
1	Well #1	9/26	10:23 AM																																										
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10																																													

<p>Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 Phone: (805) 392-2000 Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063</p>	<p>Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 Phone: (209) 942-0182 Fax: (209) 942-0423</p>	<p>Office & Laboratory 563 E. Lindo Chico, CA 95926 Phone: (530) 343-5818 Fax: (530) 343-3807</p>	<p>Office & Laboratory 3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 Phone: (805) 783-2940 Fax: (805) 783-2912</p>	<p>Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 Phone: (559) 734-9473 Fax: (559) 734-8435</p>
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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: 101 1235 1 1 1
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 N/A
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): [Signature]

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 6 41 1 1 1
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: 500191147 + 500190643

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 N/A
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): [Signature]

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: _____

(4018505)
Livingston Dairy Consulting, Inc.
VI 2346476

cda 09/26/2023 19:05:38



VI 2346476

(Please use the back of this sheet for addi
contacts)

here

October 4, 2023

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

Description : *Lewis Creek*
Project : Canal East
W-6 Livingston

Lab No. : VI 2346257-002
Customer No. : 4018505

Sampled On : September 14, 2023 at 06:25
Sampled By : Marlene Ferreira
Received On : September 14, 2023 at 13:45
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	UI	09/28/2023	10:26	sta	EPA 351.2	10/03/2023	22:48	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	09/15/2023	12:00	lfs	SM 4500-NO3 F	09/15/2023	13:54	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	UI	09/28/2023	10:26	sta	Calc.	10/03/2023	22:48	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	09/15/2023	12:00	lfs	SM 4500-NO3 F	09/15/2023	13:54	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	09/28/2023	10:26	sta	EPA 351.2	10/03/2023	22:48	lcr
Conductivity	59	1	umhos/cm		1	I	09/21/2023	11:31	krh	SM 4500-H+B	09/21/2023	16:45	krh
Solids, Total Dissolved (TDS)	40	20	mg/L		1		09/19/2023	11:20	ctl	SM 2540 C	09/20/2023	11:00	ctl

DQF Flags Definition:

- U Constituent results were non-detect.
- I The MS/MSD did not meet QC criteria.
- I The RPD for the laboratory duplicate exceeded laboratory criteria.

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

Lewis Creek

Section: Sample Results

Page 3 of 4

Page 3 of 4

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

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 Livingston Purchase Order Number: Quote Number: VI 20210208-01				Sampler(s): <i>marlene</i>				Sampling Fee: Pickup Fee: Compositor Setup Date: / / Time: /				Lab Number: VI 2346257 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)	Bact Type: Other(O) System(SYS) Source(SR) Waste(W)	Bact Reason: Routine(ROUT) Repeat(RPT) Replace(RPL)	Other(O) Special(SPL)	Daily Analysis: W-6-Conductivity, NO3-N, Total N, TDS	16oz(P)	Sampling-W-6 - Total N - Split Bottle	8oz(P)-H2SO4	***VI Lab to Split for Total N***	TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information			
1	Canal North	9/11	6:25 AM	G	Canal North														
2	Canal East	9/11	6:25 AM	G	Canal East														
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:
<i>REL</i>	9/11	13:40	SRO	9/14/23	1730	GLS	9/15/23	1145
Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:
SRO	9/14/23	1346	GLS	9/14/23	1730	<i>MAC</i>		

Remarks: