



Livingston Dairy Consulting, Inc.

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

Valov Brothers Farm LP

2865 W. Prosperity Ave. 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: Valov Brothers Farm LP
Facility Address: 2865 W. Prosperity Ave. Tulare, CA 93274
Original Operation Date: 1/1/1972
Facility APN's: x160 x010 x005 xxxx
RWQCB Basin Plan Designation: Tulare Lake Basin
☐ Check if any information has changed

Owner(s)

Owner(s) Name: Valov Brothers Farms LP
Mailing Address: 18854 Road 24 Tulare, CA 93274
Home Phone Number: 559-686-6002
Cell Phone Number:
☐ 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:			32		
Number Under Roof					
Maximum Number			32		
Average Number			32		
Average Live Weight (lbs)			660		

Average Milk Production:

Predominant Milk Cow Breed: _____ Other _____

Manure Generated:

Total manure excreted by the herd:

Total nitrogen from manure:

122.11	@40% Moisture	ton/yr
9,758		lbs
666		lbs
2,855		lbs
		lbs

After Ammonia (30% loss applied)

6,830 lbs per reporting period

Total salt from manure:

Process Wastewater Generated:

Process wastewater generated:

Total nitrogen generated:

	gal
	lbs
	lbs
	lbs
	lbs

Total salt (TDS) generated:

List of Fresh Water Sources

[illegible]

Winter Crops & Harvest

[illegible]

Detactable 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

11/11/11

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

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

Total Process Water Exported

No Commercial or other nutrient imports entered[illegible]

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	Inorg N	Org N	P2O5	K2O
1	No Water		-	-	-	-	-
2	No Water		-	-	-	-	-
3	No Water		-	-	-	-	-
4	No Water		-	-	-	-	-

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type
Manure	5-11M49483	5/11/2023	Dry Weight	Valley Tech	Corral Solids
Manure	10-3M67868	10/13/2023	Dry Weight	Valley Tech	Corral Solids

Dry Manure: (As Rec'd)	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	1.23	0.31	1.20	-	-	-	-	-	-	-	31.30
Corral	1.17	0.24	1.14	1.50	0.30	0.16	0.23	0.53	-	50.90	37.90

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%	0.001%	0.001%	0.000%	0.001%	0.001%	0.001%

Acres: 25.00

[illegible]

**Dry Weight
As Received**

Field Name/Number: 51

Acres: 25

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.1	0.0	0.0	180.9
Nutrients Removed at Harvest	-223.5	-21.4	-155.7	0.0
Nutrient Balance	-223.4	-21.4	-155.7	180.9

Winter Nitrogen Crop App / Use Ratio: 0.03

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

Field Name/Number: 51 Acres: 25

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		44.3	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
W. Planting	12/15/20					
W. Harvest	10/1/23	7.9	T/Ac	(223.5)	(49.1)	(186.8)

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

Acres: 26.00

Totals:

Field Name/Number: 55 (Trees)Acres: 26.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.1	0.0	0.0	932.4
Nutrients Removed at Harvest	-260.0	-43.6	-282.2	0.0
Nutrient Balance	-259.9	-43.6	-282.2	932.4

Winter Nitrogen Crop App / Use Ratio: 0.03

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

Field Name/Number: 55 (Trees) Acres: 26

Winter Crop	Trees, Almonds					
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		40.3 Ac In /Ac	0.1			
Canal		- Ac In /Ac	-			
Atm. Depos.		Yes	7.0			
W. Planting	1/5/18					
W. Harvest	11/1/23	2.0 T/Ac	(260.0)	(229.0)	(408.0)	

Summer Crop	Trees, Almonds					
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	

Acres: **23.00**

[illegible]

Field Name/Number: 56 (Trees)Acres: 23.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.1	0.0	0.0	917.1
Nutrients Removed at Harvest	-260.0	-43.6	-282.2	0.0
Nutrient Balance	-259.9	-43.6	-282.2	917.1

Winter Nitrogen Crop App / Use Ratio: 0.03

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

Field Name/Number: 56 (Trees)Acres: 23

Winter Crop		Trees, Almonds				
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		39.7	Ac In /Ac	0.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	1/5/18					
W. Harvest	11/1/23	2.0	T/Ac	(260.0)	(229.0)	(408.0)

Summer Crop		Trees, Almonds				
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

Field Name/Number: 59

Acres: 57.00

Totals:

Field Name/Number: 59Acres: 57.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K lbs/ac	Total Salts (lbs/ac)
Nutrients Applied	0.1	0.0	0.0	176.4
Nutrients Removed at Harvest	-240.6	-10.1	-139.2	0.0
Nutrient Balance	-240.5	-10.1	-139.2	176.4

Winter Nitrogen Crop App / Use Ratio: 0.03

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

Field Name/Number: 59 Acres: 57**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		43.2	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
W. Planting	11/15/21					
W. Harvest	10/1/23	8.5	T/Ac	(240.6)	(52.9)	(201.2)

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	-		
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 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.*



Signature of Owner of Facility

Signature of Operator of Facility

Valov Brothers Farms LP

Same as owner

Print Name

Print Name

4/16/2024

Date

Date



Facility Name: Valov Brothers Farm LP
2865 W. Prosperity, Tulare
Tulare County

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) **Ice Chest** **Refrigerator** **Ice Pack**



January 4, 2024

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

Lab No. : VI 2348553

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	(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
50	12/14/2023	12/14/2023	VI 2348553-001	AGW
59	12/14/2023	12/14/2023	VI 2348553-002	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: JRD

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


 Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2024-01-04

January 4, 2024

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

Description : 50
 Project : W-6 Valov Brothers

Lab No. : VI 2348553-001
 Customer No. : 4018505

Sampled On : December 14, 2023 at 13:05
 Sampled By : Marlene
 Received On : December 14, 2023 at 13:50
 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	12/23/2023	17:02	sta	EPA 351.2	12/29/2023	16:20	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	16:59	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	UI	12/23/2023	17:02	sta	Calc.	12/29/2023	16:20	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	16:59	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	12/23/2023	17:02	sta	EPA 351.2	12/29/2023	16:20	lcr
Conductivity	253	1	umhos/cm		1		12/21/2023	09:19	krh	SM 4500-H+B	12/21/2023	10:19	krh
Solids, Total Dissolved (TDS)	170	20	mg/L		1		12/18/2023	10:30	ctl	SM 2540 C	12/19/2023	10:45	ctl

DQF Flags Definition:

- U Constituent results were non-detect.
- 1 The MS/MSD did not meet QC criteria.

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

January 4, 2024

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

Description : 59
 Project : W-6 Valov Brothers

Lab No. : VI 2348553-002
 Customer No. : 4018505

Sampled On : December 14, 2023 at 13:13
 Sampled By : Marlene
 Received On : December 14, 2023 at 13:50
 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	12/23/2023	17:02	sta	EPA 351.2	12/29/2023	16:22	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	17:01	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	UI	12/23/2023	17:02	sta	Calc.	12/29/2023	16:22	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	17:01	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	12/23/2023	17:02	sta	EPA 351.2	12/29/2023	16:22	lcr
Conductivity	262	1	umhos/cm		1		12/21/2023	09:19	krh	SM 4500-H+B	12/21/2023	10:22	krh
Solids, Total Dissolved (TDS)	160	20	mg/L		1		12/18/2023	10:30	ctl	SM 2540 C	12/19/2023	10:45	ctl

DQF Flags Definition:

- U Constituent results were non-detect.
- 1 The MS/MSD did not meet QC criteria.

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

January 4, 2024
 Livingston Dairy Consulting, Inc.

Lab No. : VI 2348553
 Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(SP 2320616-001)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	12/18/2023:214216CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	102%	90-110	
		(CC 2384462-001)	Dup	mg/L		0.3%	5	
		(CC 2384462-001)	Dup	mg/L		2.60%	5	
Nitrogen, Total Kjeldahl	351.2	12/23/2023:214458STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	107%	73-124	
			MS	mg/L	12.00	81.3%	90-110	435
		(VI 2348553-001)	MSD	mg/L	12.00	97.7%	90-110	
			MSRPD	mg/L		18.3%	≤20	
			MS	mg/L	12.00	102%	90-110	
		(VI 2348553-002)	MSD	mg/L	12.00	103%	90-110	
			MSRPD	mg/L		0.5%	≤20	
Nitrate + Nitrite as N	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.3%	80-120	
			MS	mg/L	5.609	93.1%	66-125	
		(VI 2348536-001)	MSD	mg/L	5.609	94.3%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.3%	80-120	
			MS	mg/L	5.609	93.1%	66-125	
		(VI 2348536-001)	MSD	mg/L	5.609	94.3%	66-125	
			MSRPD	mg/L		1.0%	≤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.

Explanation

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

42086:03/01/2022				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: W-6 Valov Brothers Purchase Order Number: Quote Number: VI 20210208-01 Sampler(s) Maxlene				42086:03/01/2022									
Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ____/____/____ Time: ____/____/____ Lab Number: VI 2348553 4-18505				42086:03/01/2022									
Sample Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample	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)	Dairy Analysis: W-6-Conductivity, NO3-N, Total N, TDS	Sampling-W-6 - Total N - Split Bottle	8oz(P)-H2SO4	***VI Lab to Split for Total N***	
1	50	12/14	1:05	G	AgW	NR			1	1			
2	59	12/14	1:13	G	AgW	NR			1	1			
3				G									
4				G									
5				G									
6				G									
7				G									
8				G									
9				G									
10				G									

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VI

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

2. Temp IR Gun ID #: 451

3. Were samples received on ice? Yes No Temps: 53°C / 1 / 1 / 1
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.

4. Do the number of bottles received agree with the COC? Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No

6. VOAs checked for Headspace? Yes No N/A

7. Were all analyses within holding times at time of receipt? Yes No

8. 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): AB

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): SL00037374, SL00039446, SL00039454

2. Temp IR Gun ID #: 215

3. Were samples received on ice? Yes No Temps: 12 / 1 / 03 / 01 / 01
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4. Do the number of bottles received agree with the COC? Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No

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): U

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: _____

(4018505)
Livingston Dairy Consulting, Inc.

VI 2348553

iv 12/15/2023 09:48:42



VI 2348553

re

October 16, 2023

Lab No. : VI 2346569

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

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
Barn	09/28/2023	09/28/2023	VI 2346569-001	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: 2023-10-16



October 16, 2023

Livingston Dairy Consulting, Inc

1635 E. Prosperity Suite B

Tulare, CA 93274

Description : Barn
Project : W-6 Valov Brothers

Lab No. : VI 2346569-001

Customer No.: 4018505

Sampled On : September 28, 2023 at 15:00

Sampled By : Marlene Ferreira

Received On : September 28, 2023 at 15:45

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	10/11/2023	07:25	sta	EPA 351.2	10/13/2023	16:20	lcr
Nitrate Nitrogen	11.0	0.4	mg/L		1		09/29/2023	12:00	lfs	SM 4500-NO3 F	09/29/2023	15:19	lfs
Nitrogen, Total as Nitrogen	11.0	0.5	mg/L		1	I	10/11/2023	07:25	sta	Calc.	10/13/2023	16:20	lcr
Nitrate + Nitrite as N	11.0	0.4	mg/L		1		09/29/2023	12:00	lfs	SM 4500-NO3 F	09/29/2023	15:19	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	10/11/2023	07:25	sta	EPA 351.2	10/13/2023	16:20	lcr
Conductivity	289	1	umhos/cm		1		10/05/2023	04:20	krh	SM 4500-H+B	10/05/2023	19:36	krh
Solids, Total Dissolved (TDS)	220	20	mg/L		1		10/02/2023	10:50	ctl	SM 2540 C	10/03/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

I The MS/MSD did not meet QC criteria.

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

Corporate Offices & Laboratory

853 Corporation Street

Santa Paula, CA 93060

TEL: (805)392-2000

Env FAX: (805)525-4172 / Ag FAX: (805)392-2063

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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

October 16, 2023
 Livingston Dairy Consulting, Inc.

Lab No. : VI 2346569
 Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2346680-002)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	10/02/2023:211059CTL	Blank	mg/L	991.5	ND	<20	
			LCS	mg/L		102%	90-110	
			Dup	mg/L		0.5%	5	
			Dup	mg/L		0.8%	5	
Nitrogen, Total Kjeldahl	351.2	10/11/2023:211433STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		93.1%	73-124	
			MS	mg/L		96.2%	90-110	
			(SP 2316536-001) MSD	mg/L		94.4%	90-110	
			MSRPD	mg/L		1.8%	≤20	
			MS	mg/L		81.5%	90-110	435
			(VI 2346585-001) MSD	mg/L		85.4%	90-110	435
			MSRPD	mg/L		4.5%	≤20	
Nitrate + Nitrite as N	4500NO3F	09/29/2023:210984LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.2%	80-120	
			MS	mg/L		98.1%	66-125	
			(VI 2346551-002) MSD	mg/L		98.4%	66-125	
			MSRPD	mg/L		0.3%	≤30.4	
Nitrate Nitrogen	4500NO3F	09/29/2023:210984LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.2%	80-120	
			MS	mg/L		98.1%	66-125	
			(VI 2346551-002) MSD	mg/L		98.4%	66-125	
			MSRPD	mg/L		0.3%	≤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.

Explanation

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

42086:03/01/2022		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling Information									
Client: Livingston Dairy Consulting, Inc.		802(P)-H2SO4									
Address: Livingston Dairy Consulting, Inc. 1635 E. Prosperity Suite B Tulare, CA 93274		***VI Lab to Split for Total N***									
Phone: (559)687-1440 Fax:		Sampling-W-6 - Total N - Split Bottle									
Contact Person: Noreen Livingston		Daily Analysis-W-6-Conductivity, NO3-N, Total N, TDS									
Project Name: W-6 Valov Brothers		1602(P)									
Purchase Order Number:		Bact Type: Other(O) System(SYS) Source(SR) Waste(W)									
Quote Number: VI 20210208-01		Bact Reason: Routine(ROUT) Repeat(RPT) Replace(RPL)									
Sampler(s) Martene		Other(O) Special(SPL)									
Sampling Fee: Pickup Fee:		Type of Sample									
Compositor Setup Date: / / Time: /		Potable(P) Non-Potable(NP) Ag Water(AgW)									
Lab Number: VI 2346569 4-18505		Bact Type: Other(O) System(SYS) Source(SR) Waste(W)									
Sample Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)							
1	Barn	9/28	3:00	G	AgW	Type of Sample					
2				G		Potable(P) Non-Potable(NP) Ag Water(AgW)					
3				G		Bact Reason: Routine(ROUT) Repeat(RPT) Replace(RPL)					
4				G		Other(O) Special(SPL)					
5				G		Type of Sample					
6				G		Potable(P) Non-Potable(NP) Ag Water(AgW)					
7				G		Bact Type: Other(O) System(SYS) Source(SR) Waste(W)					
8				G		Bact Reason: Routine(ROUT) Repeat(RPT) Replace(RPL)					
9				G		Other(O) Special(SPL)					
10				G		Type of Sample					

Relinquished	Date	Time	Relinquished	Date	Time
Relinquished	9/28/23	1730	Relinquished	9/28/23	1730
Received By: SRO	9/28/23	1545	Received By: GLS	9/28/23	1545
Remarks:			Date: 9/28/23 Time: 1133		
Date: 9/28/23 Time: 1730			Date: 9/28/23 Time: 1730		

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory
853 Corporation Street Santa Paula, CA 93060 Phone: (805) 392-2000 Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063	3442 Empresa Drive, Suite D San Luis Obispo, CA 93401 Phone: (805) 783-2940 Fax: (805) 783-2912	9415 W. Goshen Avenue Visalia, CA 93291 Phone: (559) 734-8473 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 # OTC

2. Were samples received in a chilled condition? Temps: 33.7C / / / /
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.

- 10#TH407
- | | | | |
|---|--------------------------------------|----|-----|
| 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 | N/A |
| 6. Were sample custody seals intact? | <input checked="" type="radio"/> Yes | No | N/A |
| 7. If required, was sample split for pH analysis? | <input checked="" type="radio"/> Yes | No | 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): SRO

Sample Receipt at SP:

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

- 560207557 / 8030
- | | | | |
|---|--------------------------------------|----|-----|
| 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 | 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 Cr-VI verified in lab]</small> | <input checked="" type="radio"/> Yes | No | N/A FGL |
| 4. VOAs checked for Headspace? | <input checked="" type="radio"/> Yes | No | N/A |
| 5. Have rush or project due dates been checked and accepted? | <input checked="" type="radio"/> Yes | No | 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): CDA

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 contacts)

(4018505)
Livingston Dairy Consulting, Inc.

VI 2346569

cda 09/29/2023 13:22:26



VI 2346569

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

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