



Livingston Dairy Consulting, Inc.

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

Cunha Dairy #1 WDID 5C16NC00119

6680 16th Ave. Hanford, CA 93230

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

GEO Tracker Confirmation #

Date:

Facility Info

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

Name of the Facility

Dairy Name: Cunha Dairy #1 WDIID 5C16NC00119
Facility Address: 6680 16th Ave. Hanford, CA 93230
Original Operation Date: 6/1/1930
Facility APN's: x004 x090 x020 xxxx
RWQCB Basin Plan Designation: Tulare Lake Basin Check if any information has changed

Owner(s)

Owner(s) Name: Eliseu & Theresa Cunha
Mailing Address: 6596 16th Ave. Hanford, CA 93230
Home Phone Number: 559-582-3282
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:	-	-	542	260	-
Number Under Roof	-	-	-	-	-
Maximum Number			542	260	
Average Number			542	260	
Average Live Weight (lbs)			780	570	

Average Milk Production: 0

Predominant Milk Cow Breed: Jersey-Holstein Cross

Manure Generated:

Total manure excreted by the herd:	2,735.60	@40% Moisture	ton/yr
Total nitrogen from manure:	251,632	lbs	
	19,982	lbs	
	68,079	lbs	
Total salt from manure:	-	lbs	

Process Wastewater Generated:

Process wastewater generated:	-	gal
Total nitrogen generated:	-	lbs
Total salt (TDS) generated:	-	lbs

After Ammonia (30% loss applied)
176,143 lbs per reporting period

List of Land Application Areas

List of Fresh Water Sources

(WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)

(WINTER)		PLANT TISSUE ANALYSIS (Recorded As Received)								
Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
Dutra	Wheat, Silage	63.08	0.38	0.09	0.61	-	10.10	23E620	05/02/23	Dellavalle
Vaz	Wheat, Silage	67.15	0.48	0.11	0.70	-	10.60	23E0620	05/02/23	Dellavalle
Uncle Sam	Wheat, Silage	60.77	0.62	0.10	0.81	-	8.70	23E2317	05/17/23	Dellavalle
0										
0										
0										
0										
0										
0										
0										
0										
0										
0										
Detectable Lim Valley Tech		0.10%	0.05%	0.01%	0.01%					0.05%
Dellavalle		0.001%	0.01%	0.01%	0.003%					0.001%
Detectable Limits										
Valley Tech		0.10%	0.05%	0.01%	0.01%					0.05%
Dellavalle		0.001%	0.01%	0.01%	0.003%					0.001%

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)

Detectable Limits
Valley Tech
Dellavalle

Winter Crops & Harvest

*Detectable L Valley Tech
Dellavalle*

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
Dutra	Corn, Silage	5/28/23	9/12/23	231089	66.98	0.38	0.13	0.55	-	7.70	Dry Weight
Vaz	Corn, Silage	5/28/23	9/12/23	231089	62.34	0.37	0.16	0.68	-	8.10	Dry Weight
Uncle Sam	Corn, Silage	6/4/23	9/13/23	231089	71.20	0.31	0.11	0.49	-	6.90	Dry Weight

*Detectable L Valley Tech
Dellavalle*

Well / Canal Analysis

Soil Analysis (Winter)

Detectable Limits

Valley Tech

Dellavalle et al.

Soil Analysis (Summer)

Detectable Limits

Valley Tech

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2002/

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)

Nutrient import

No Dry manure nutrient imports entered

No Process wastewater nutrient imports entered

No Commerical or other nutrient imports entered

Total Dry Manure Exported	<input type="text"/>
Total Process Water Exported	<input type="text"/>

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)	TDS (mg/L)
Quarters:		-	-	-	-	-	-	-	-	-	-	-	-	-
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	0.01	0.05	0.4	0.10	0.9	3	0.01	0.03	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	23C0687	3/20/2023	Dry Weight	Dellavalle	Corral Solids
Manure	23L0359	12/6/2023	Dry Weight	Dellavalle	Corral Solids

Dry Manure: (As Rec'd)	TN %	TP %	TK %	Ca	Mg	Na	S	Cl	Salt	TFS	Moisture %
Corral	1.31	0.06	0.06	0.18	0.07	0.20	0.03	0.10	-	60.70	26.22
Corral	1.45	0.67	2.43	-	-	-	-	-	-	-	30.78

Detectable Limits

Valley Tech	0.01%	0.02%	0.02%	-	-	-	-	-	-	-	-
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%	0.001%	0.000%	0.000%	0.0001%	0.0001%	0.0001%

Nutrient Applications

Field Name/Number:

Dutra

Acres: 52.00

Dry Weight
As Received

Field Name/Number: Dutra Acres: 52

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	230.7	13.6	13.6	1328.6
Nutrients Removed at Harvest	-335.2	-101.0	-503.8	0.0
Nutrient Balance	-104.6	-87.4	-490.2	1328.6

Winter Nitrogen Crop App / Use Ratio: 0.98 Summer Nitrogen Crop App / Use Ratio: 1.11

Field Name/Number: Dutra Acres: 52

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	11.5	T/Ac	120.5	31.2	16.3
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	- Ac In /Ac	-	-	-
	Q2	- Ac In /Ac	-	-	-
Well Water	25.52	Ac In /Ac	0.0	-	-
Canal	-	Ac In /Ac	-	-	-
Atm. Depos.	Yes		7.0	-	-
W. Planting	11/6/22				
W. Harvest	5/1/23	17.2 T/Ac	(130.6)	(69.7)	(251.1)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	110.0	lbs/Ac	110.0	-	-
Process Water	Q2	- Ac In /Ac	-	-	-
	Q3	- Ac In /Ac	-	-	-
	Q4	- Ac In /Ac	-	-	-
Well Water	34.0	Ac In /Ac	110.07714	-	-
Canal	-	Ac In /Ac	-	-	-
Atm. Depos.	Yes		7.0	-	-
S. Planting	5/28/23				
S. Harvest	9/12/23	26.7 T/Ac	(204.6)	(161.6)	(353.5)

Nutrient Applications

Field Name/Number:

Yaz

Acres:

74.00

Field Name/Number: Vaz Acres: 74.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	170.1	0.0	0.0	1914.5
Nutrients Removed at Harvest	-311.9	-44.0	-428.9	0.0
Nutrient Balance	-141.8	-44.0	-428.9	1914.5

Winter Nitrogen Crop App / Use Ratio: 1.05 Summer Nitrogen Crop App / Use Ratio: 1.23

Field Name/Number: Vaz Acres: 74

Winter Crop	Wheat, Silage	N			
Nutrient Summary :	Applied				
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	80.0	lbs/Ac	80.0		
Process Water	Q1	- Ac In /Ac	-	-	-
	Q2	- Ac In /Ac	-	-	-
Well Water	27.1	Ac In /Ac	80.1		
Canal	-	Ac In /Ac	-		
Atm. Depos.	Yes		7.0		
W. Planting	10/28/22				
W. Harvest	5/2/23	16.5 T/Ac	(159.5)	(79.5)	(278.6)

Summer Crop	Corn, Silage	N			
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	90.0	lbs/Ac	90.0	-	-
Process Water	Q2	- Ac In /Ac	-	-	-
	Q3	- Ac In /Ac	-	-	-
	Q4	- Ac In /Ac	-	-	-
Well Water	34.0	Ac In /Ac	90.1		
Canal	-	Ac In /Ac	-		
Atm. Depos.	Yes		7.0		
S. Planting	5/28/23				
S. Harvest	9/12/23	20.9 T/Ac	(152.4)	(151.2)	(341.3)

Nutrient Applications

Field Name/Number:

Uncle Sam

Acres: 56.00

Field Name/Number: Uncle Sam Acres: 56.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Removed at Harvest	182.5	0.0	0.0	4062.4
Nutrient Balance	-329.9	-35.0	-388.5	0.0
	-147.4	-35.0	-388.5	4062.4

Winter Nitrogen Crop App / Use Ratio: 1.04 Summer Nitrogen Crop App / Use Ratio: 1.26

Field Name/Number: Uncle Sam Acres: 56

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	- Ac In /Ac	-	-	-
	Q2	- Ac In /Ac	-	-	-
Well Water	20.6	Ac In /Ac	90.9		
Canal	-	Ac In /Ac	-		
Atm. Depos.	Yes		7.0		
W. Planting	11/19/22				
W. Harvest	5/15/23	14.4 T/Ac	(180.2)	(67.5)	(281.6)

Summer Crop	Corn, Silage	Nutrient Summary : Applied			N
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	90.0	lbs/Ac	90.0	-	-
Process Water	Q2	- Ac In /Ac	-	-	-
	Q3	- Ac In /Ac	-	-	-
	Q4	- Ac In /Ac	-	-	-
Well Water	33.7	Ac In /Ac	91.5		
Canal	-	Ac In /Ac	-		
Atm. Depos.	Yes		7.0		
S. Planting	6/4/23				
S. Harvest	9/13/23	23.8 T/Ac	(149.7)	(116.3)	(280.1)

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.

F.C. (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

Eliseu & Theresa Cunha
Print Name

Signature of Operator of Facility

Same as owner
Print Name



Date

Cunha Dairy #1

6680 16th Avenue Hanford, 93290



Google Earth

2023

DELLAVALLE™

LABORATORY INC

Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0219-01	North of House	Ag Water	Client		08/31/2023 8:30
23I0219-02	North of Milk Barn	Ag Water	Client		08/31/2023 8:40
23I0219-03	New Well W. of Rental	Ag Water	Client		08/31/2023 8:50
23I0219-04	VAZ-S of Canal	Ag Water	Client		08/31/2023 8:55
23I0219-05	Shop	Ag Water	Client		08/31/2023 9:25
23I0219-06	VAZ-16th & Middle of Fld	Ag Water	Client		08/31/2023 9:05
23I0219-07	Dutra N of Hfrs	Ag Water	Client		08/31/2023 9:15
23I0219-08	Dutra by Pecans	Ag Water	Client		08/31/2023 10:00
23I0219-09	Uncle Sam	Ag Water	Client		08/31/2023 10:10

Default Cooler Temperature on Receipt °C: 14.3
 Containers Intact
 COC/Labels Agree
 Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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1910 W. McKinley Ave Suite 110 Fresno, CA 93728 559-233-6129 www.dellavallelab.com



Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results

**Sample: North of House
23I0219-01 (Water)**

Sampled: 8/31/2023 8:30

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	89.8	mg/L	10.0	1		09/01/23 13:38	SM 2320 B		BEI0004
Calcium	3.0	mg/L	0.1	1		09/05/23 14:16	EPA 200.7		BEI0027
Chloride	13.5	mg/L	0.2	1	250	09/01/23 18:37	EPA 300.0		BEH1479
Carbonate as CaCO ₃	11	mg/L	1	1		09/01/23 13:38	SM 2320 B		BEI0004
Electrical Conductivity	0.38	mmhos/cm	0.01	1		09/01/23 13:38	SM 2510 B		BEI0004
Electrical Conductivity umhos	384	umhos/cm	10.0	1		09/01/23 13:38	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	78.6	mg/L	5.00	1		09/01/23 13:38	SM 2320 B		BEI0004
Potassium	ND	mg/L	0.500	1		09/05/23 14:16	EPA 200.7		BEI0027
Magnesium	ND	mg/L	0.1	1		09/05/23 14:16	EPA 200.7		BEI0027
Sodium	83	mg/L	1	1		09/05/23 14:16	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 08:30	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	09/01/23 18:37	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 13:38	SM 2320 B		BEI0004
pH	8.9	units	1.0	1		09/01/23 13:38	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	61.5	mg/L	0.5	1	250	09/01/23 18:37	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	237	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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LABORATORY INC

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6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results (Continued)

**Sample: North of Milk Barn
23I0219-02 (Water)**

Sampled: 8/31/2023 8:40

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	91.0	mg/L	10.0	1		09/01/23 13:41	SM 2320 B		BEI0004
Calcium	3.3	mg/L	0.1	1		09/05/23 14:17	EPA 200.7		BEI0027
Chloride	13.1	mg/L	0.2	1	250	09/01/23 18:57	EPA 300.0		BEH1479
Carbonate as CaCO ₃	13	mg/L	1	1		09/01/23 13:41	SM 2320 B		BEI0004
Electrical Conductivity	0.39	mhos/cm	0.01	1		09/01/23 13:41	SM 2510 B		BEI0004
Electrical Conductivity umhos	385	umhos/cm	10.0	1		09/01/23 13:41	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	78.4	mg/L	5.00	1		09/01/23 13:41	SM 2320 B		BEI0004
Potassium	ND	mg/L	0.500	1		09/05/23 14:17	EPA 200.7		BEI0027
Magnesium	ND	mg/L	0.1	1		09/05/23 14:17	EPA 200.7		BEI0027
Sodium	83	mg/L	1	1		09/05/23 14:17	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 08:40	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	09/01/23 18:57	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 13:41	SM 2320 B		BEI0004
pH	9.0	units	1.0	1		09/01/23 13:41	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	59.5	mg/L	0.5	1	250	09/01/23 18:57	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	230	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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DELLAVALLETM

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6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results (Continued)

**Sample: New Well W. of Rental
23I0219-03 (Water)**

Sampled: 8/31/2023 8:50

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	89.1	mg/L	10.0	1		09/01/23 13:45	SM 2320 B		BEI0004
Calcium	3.2	mg/L	0.1	1		09/05/23 14:18	EPA 200.7		BEI0027
Chloride	13.5	mg/L	0.2	1	250	09/01/23 19:16	EPA 300.0		BEH1479
Carbonate as CaCO ₃	12	mg/L	1	1		09/01/23 13:45	SM 2320 B		BEI0004
Electrical Conductivity	0.39	mmhos/cm	0.01	1		09/01/23 13:45	SM 2510 B		BEI0004
Electrical Conductivity umhos	388	umhos/cm	10.0	1		09/01/23 13:45	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	77.3	mg/L	5.00	1		09/01/23 13:45	SM 2320 B		BEI0004
Potassium	ND	mg/L	0.500	1		09/05/23 14:18	EPA 200.7		BEI0027
Magnesium	ND	mg/L	0.1	1		09/05/23 14:18	EPA 200.7		BEI0027
Sodium	89	mg/L	1	1		09/05/23 14:18	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 08:50	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	09/01/23 19:16	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 13:45	SM 2320 B		BEI0004
pH	8.9	units	1.0	1		09/01/23 13:45	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	61.4	mg/L	0.5	1	250	09/01/23 19:16	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	230	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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DELLAVALLETM

LABORATORY INC

Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results (Continued)

**Sample: VAZ-S of Canal
23I0219-04 (Water)**

Sampled: 8/31/2023 8:55

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	89.3	mg/L	10.0	1		09/01/23 14:02	SM 2320 B		BEI0004
Calcium	3.0	mg/L	0.1	1		09/05/23 14:19	EPA 200.7		BEI0027
Chloride	13.8	mg/L	0.2	1	250	09/01/23 19:36	EPA 300.0		BEH1479
Carbonate as CaCO ₃	10	mg/L	1	1		09/01/23 14:02	SM 2320 B		BEI0004
Electrical Conductivity	0.40	mmhos/cm	0.01	1		09/01/23 14:02	SM 2510 B		BEI0004
Electrical Conductivity umhos	396	umhos/cm	10.0	1		09/01/23 14:02	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	79.1	mg/L	5.00	1		09/01/23 14:02	SM 2320 B		BEI0004
Potassium	ND	mg/L	0.500	1		09/05/23 14:19	EPA 200.7		BEI0027
Magnesium	ND	mg/L	0.1	1		09/05/23 14:19	EPA 200.7		BEI0027
Sodium	80	mg/L	1	1		09/05/23 14:19	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 08:55	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	09/01/23 19:36	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 14:02	SM 2320 B		BEI0004
pH	8.8	units	1.0	1		09/01/23 14:02	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	62.4	mg/L	0.5	1	250	09/01/23 19:36	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	233	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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DELLAVALLETM

LABORATORY INC

Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results (Continued)

Sample: Shop

Sampled: 8/31/2023 9:25

23I0219-05 (Water)

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	272	mg/L	10.0	1		09/01/23 14:05	SM 2320 B		BEI0004
Calcium	87.8	mg/L	0.1	1		09/05/23 14:20	EPA 200.7		BEI0027
Chloride	64.0	mg/L	0.2	1	250	09/01/23 19:56	EPA 300.0		BEH1479
Carbonate as CaCO ₃	ND	mg/L	1	1		09/01/23 14:05	SM 2320 B		BEI0004
Electrical Conductivity	0.98	mmhos/cm	0.01	1		09/01/23 14:05	SM 2510 B		BEI0004
Electrical Conductivity umhos	975	umhos/cm	10.0	1		09/01/23 14:05	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	272	mg/L	5.00	1		09/01/23 14:05	SM 2320 B		BEI0004
Potassium	2.84	mg/L	0.500	1		09/05/23 14:20	EPA 200.7		BEI0027
Magnesium	21.2	mg/L	0.1	1		09/05/23 14:20	EPA 200.7		BEI0027
Sodium	99	mg/L	1	1		09/05/23 14:20	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 09:25	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	0.2	mg/L	0.1	1	10	09/01/23 19:56	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 14:05	SM 2320 B		BEI0004
pH	7.6	units	1.0	1		09/01/23 14:05	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	104	mg/L	0.5	1	250	09/01/23 19:56	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	610	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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DELLAVALLETM

LABORATORY INC

Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results

(Continued)

**Sample: VAZ-16th & Middle of Fld
23I0219-06 (Water)**

Sampled: 8/31/2023 9:05

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	88.5	mg/L	10.0	1		09/01/23 14:12	SM 2320 B		BEI0004
Calcium	3.0	mg/L	0.1	1		09/05/23 14:21	EPA 200.7		BEI0027
Chloride	13.7	mg/L	0.2	1	250	09/01/23 20:15	EPA 300.0		BEH1479
Carbonate as CaCO ₃	11	mg/L	1	1		09/01/23 14:12	SM 2320 B		BEI0004
Electrical Conductivity	0.39	mmhos/cm	0.01	1		09/01/23 14:12	SM 2510 B		BEI0004
Electrical Conductivity umhos	387	umhos/cm	10.0	1		09/01/23 14:12	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	77.4	mg/L	5.00	1		09/01/23 14:12	SM 2320 B		BEI0004
Potassium	ND	mg/L	0.500	1		09/05/23 14:21	EPA 200.7		BEI0027
Magnesium	ND	mg/L	0.1	1		09/05/23 14:21	EPA 200.7		BEI0027
Sodium	82	mg/L	1	1		09/05/23 14:21	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 09:05	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	09/01/23 20:15	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 14:12	SM 2320 B		BEI0004
pH	8.9	units	1.0	1		09/01/23 14:12	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	62.0	mg/L	0.5	1	250	09/01/23 20:15	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	230	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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LABORATORY INC

Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results (Continued)

**Sample: Dutra N of Hfrs
23I0219-07 (Water)**

Sampled: 8/31/2023 9:15

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	91.2	mg/L	10.0	1		09/01/23 14:16	SM 2320 B		BEI0004
Calcium	2.8	mg/L	0.1	1		09/05/23 14:23	EPA 200.7		BEI0027
Chloride	12.7	mg/L	0.2	1	250	09/01/23 20:35	EPA 300.0		BEH1479
Carbonate as CaCO ₃	11	mg/L	1	1		09/01/23 14:16	SM 2320 B		BEI0004
Electrical Conductivity	0.37	mmhos/cm	0.01	1		09/01/23 14:16	SM 2510 B		BEI0004
Electrical Conductivity umhos	372	umhos/cm	10.0	1		09/01/23 14:16	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	80.7	mg/L	5.00	1		09/01/23 14:16	SM 2320 B		BEI0004
Potassium	ND	mg/L	0.500	1		09/05/23 14:23	EPA 200.7		BEI0027
Magnesium	ND	mg/L	0.1	1		09/05/23 14:23	EPA 200.7		BEI0027
Sodium	80	mg/L	1	1		09/05/23 14:23	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 09:15	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	09/01/23 20:35	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 14:16	SM 2320 B		BEI0004
pH	8.9	units	1.0	1		09/01/23 14:16	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	56.2	mg/L	0.5	1	250	09/01/23 20:35	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	237	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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DELLAVALLETM

LABORATORY INC

Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results (Continued)

**Sample: Dutra by Pecans
23I0219-08 (Water)**

Sampled: 8/31/2023 10:00

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	90.3	mg/L	10.0	1		09/01/23 14:20	SM 2320 B		BEI0004
Calcium	3.6	mg/L	0.1	1		09/05/23 14:32	EPA 200.7		BEI0027
Chloride	12.8	mg/L	0.2	1	250	09/01/23 23:33	EPA 300.0		BEH1479
Carbonate as CaCO ₃	5	mg/L	1	1		09/01/23 14:20	SM 2320 B		BEI0004
Electrical Conductivity	0.37	mmhos/cm	0.01	1		09/01/23 14:20	SM 2510 B		BEI0004
Electrical Conductivity umhos	372	umhos/cm	10.0	1		09/01/23 14:20	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	85.6	mg/L	5.00	1		09/01/23 14:20	SM 2320 B		BEI0004
Potassium	ND	mg/L	0.500	1		09/05/23 14:32	EPA 200.7		BEI0027
Magnesium	ND	mg/L	0.1	1		09/05/23 14:32	EPA 200.7		BEI0027
Sodium	80	mg/L	1	1		09/05/23 14:32	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 10:00	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	09/01/23 23:33	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 14:20	SM 2320 B		BEI0004
pH	8.5	units	1.0	1		09/01/23 14:20	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	57.5	mg/L	0.5	1	250	09/01/23 23:33	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	183	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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Cunha Dairy #1
6596 16th Ave
Hanford, CA 93230

Account# 00-0015898
Account Manager: Ben Nydam
Submitted By: Theresa
Ranch: 6596 16th Ave, Hanford

Received: 09/01/2023 7:00
Reported: 09/06/2023 11:32

Sample Results

(Continued)

Sample: Uncle Sam
23I0219-09 (Water)

Sampled: 8/31/2023 10:10

Sampled By: Client

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	159	mg/L	10.0	1		09/01/23 14:23	SM 2320 B		BEI0004
Calcium	24.2	mg/L	0.1	1		09/05/23 14:33	EPA 200.7		BEI0027
Chloride	68.9	mg/L	0.2	1	250	09/01/23 20:55	EPA 300.0		BEH1479
Carbonate as CaCO ₃	2	mg/L	1	1		09/01/23 14:23	SM 2320 B		BEI0004
Electrical Conductivity	0.92	mmhos/cm	0.01	1		09/01/23 14:23	SM 2510 B		BEI0004
Electrical Conductivity umhos	918	umhos/cm	10.0	1		09/01/23 14:23	SM 2510 B		BEI0004
Bicarbonate as CaCO ₃	157	mg/L	5.00	1		09/01/23 14:23	SM 2320 B		BEI0004
Potassium	0.719	mg/L	0.500	1		09/05/23 14:33	EPA 200.7		BEI0027
Magnesium	0.2	mg/L	0.1	1		09/05/23 14:33	EPA 200.7		BEI0027
Sodium	172	mg/L	1	1		09/05/23 14:33	EPA 200.7		BEI0027
Ammonia (as N)	ND	mg/L	0.00	1		08/31/23 10:10	Field		BEI0009
Nitrate Nitrogen as NO ₃ N	0.2	mg/L	0.1	1	10	09/01/23 20:55	EPA 300.0		BEH1479
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/01/23 14:23	SM 2320 B		BEI0004
pH	8.3	units	1.0	1		09/01/23 14:23	SM 4500-H+	H	BEI0004
Sulfate (SO ₄)	151	mg/L	0.5	1	250	09/01/23 20:55	EPA 300.0		BEH1479
Total Filterable Solids (TDS)	550	mg/L	10.0	1		09/05/23 14:53	SM 2540 C		BEI0010

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09/01/23 07:00

240219

WATER WORK REQUEST

Bill To: 15898 Acct No: 08

Purchase Order No: _____ Results Needed By: _____

Client: **Cunha Dairy #1**
 Address: **6596 16th Ave**
 City, State, Zip: **Hanford, CA 93230**
 Email: **cunhadairy@yahoo.com (Mail Reports)**
noreen@livingsondairychanging.com,
marlene@livingsondairychanging.com,
datastech@livingsondairychanging.com

Copy to: _____ Requested by/Cell: **Theresa 582-3282**

Facility: **6596 16th Ave, Hanford**

Date sampled: **8/31/2023**

Sampled by: **Client**

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

1. North of House Sampled From: _____
2. North of milk barn Sampled From: _____
3. New Well W. of Rental Sampled From: _____
4. VAZ-S of Canal Sampled From: _____
5. Shop Sampled From: _____
6. VAZ-16th & middle of fd Sampled From: _____
7. Dutra of Hfrs Sampled From: _____
8. Dutra by Pecans Sampled From: _____
9. Uncle Sam Sampled From: _____
10. Sampled From: _____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>J. Cunha</i>	<i>Cunha Dairy</i>		
Second	<i>CTT</i>	<i>DCI</i>	<i>8/31/23 12:30</i>	<i>8/31/23 12:30</i>
Third	<i>gt</i>	<i>DCI</i>	<i>9/1 09:00</i>	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for attorney's fees. It is understood that payment is expected to be made with samples unless terms have been previously arranged. Terms are net 10 days; overdue accounts will be charged a stated charge for late payment. If payment is not made when due and a legitimate dispute exists concerning the products or services of DellaValle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of the American Arbitration Association. The parties will equally bear the costs or mediation arbitration. If, however, the mediator declares that no legal cause exists, the dispute will be submitted to binding arbitration through AAA under its Rules and Procedures. The parties will equally bear the costs or mediation arbitration. If, however, the mediator declares that no legal cause exists, the dispute will be submitted to binding arbitration through AAA under its Rules and Procedures.

Invoicing Information:

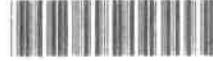
Invoicing			Shipping
Sampling Hrs	Miles	Consulting	\$ <input type="text"/> In
			\$ <input type="text"/> Out
Amt Paid	Rec'd By	Check No	Date: <input type="text"/>

IR Thermometer SN: 221511274

possible
guarantee. They
in the event

Signature:
IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Hanford

on update 2023



09/01/23 07:00

2:10219

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>											
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
Samples Preserved with HNO ₃ or H ₂ SO ₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory											
Type of Container(s) Received	Sample Number										
	1	2	3	4	5	6	7	8	9	10	
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
Special	1 L unpreserved (White) Plastic	I	I	I	I	I	I	I	I	I	
	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
Glass	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	250 mL AG unpreserved (White)										
	250 mL AG H ₂ SO ₄ (Yellow)										
	250 mL AG Na ₂ S ₂ O ₃ (Green)										
	250 mL AG Na ₂ S ₂ O ₃ + MCAA										
	500 mL glass unpreserved (White)										
Special	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H ₂ SO ₄ (Yellow)										
	1 L AG Na ₂ S ₂ O ₃ (Green)										
	1 L AG HCl (Blue)										
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
Cyanide - 500 mL NaOH											
Asbestos - 1L P wrapped in foil (Set of 2)											
Sulfide - 1 L AG or P NaOH + ZnAc											
Chlorite/Bromate - 250 mL AG with EDA											
HAA5 - 250mL AG Ammonium Chlorite											
DO KIT											
Other:											