



# Livingston Dairy Consulting, Inc.

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

**Vitor Borba Heifers (Prev. Vitor Borba #2)**

7410 7th Avenue, Hanford CA 93230

<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: Vitor Borba Heifers (Prev. Vitor Borba #2)  
Facility Address: 7410 7th Avenue, Hanford CA 93230  
Original Operation Date: 3/28/1955  
Facility APN's: x014 x090 x065 xxxx  
RWQCB Basin Plan Designation: Tulare Lake Basin ☐ Check if any information has changed

### *Owner(s)*

Owner(s) Name: Frank P. Barcellos & Sons (Dean & Lee Barcellos)  
Mailing Address: 34080 N. Chaparral Ct., Hanford CA 93230  
Home Phone Number: \_\_\_\_\_  
Cell Phone Number: 559-362-1777 ☐ Check if any information has changed

### *Operator(s)*

Operator(s) Name: Vitor Borba (Leases Facility Only)  
Mailing Address: 7721 Flint Avenue, Hanford CA 93230  
Home Phone Number: \_\_\_\_\_  
Cell Phone Number: 559-904-2583 ☐ 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:	-	-	451	206	-
Number Under Roof	-	-	-	-	-
Maximum Number			451	206	
Average Number			451	206	
Average Live Weight (lbs)			660	370	

Average Milk Production: 0

Predominant Milk Cow Breed: Jersey

Manure Generated:

Total manure excreted by the herd:

Total nitrogen from manure:

	ton/yr
	1,292.68
	80,387
	8,326
	31,574
	-

After Ammonia (30% loss applied)

56,271 lbs per reporting period

Process Wastewater Generated:

Process wastewater generated:

Total nitrogen generated:

Total salt (TDS) generated:

	gal
	-
	lbs
	lbs
	lbs
	lbs
	lbs



## List of Fresh Water Sources

[illegible]





## Winter Crops & Harvest

[illegible]

Detectable L Valley Tech  
Dellavalle

	0.10%	0.05%	0.01%	0.01%	0.05%
	0.001%	0.01%	0.01%	0.003%	0.001%





## General Minerals

### Detectable Limits

FGL Environmental

many men

## Soil Analysis (Winter)

[illegible]

### Detectable Limits

Valley Tech

DellaValle

## 0.1

0.1

## 1.1

## 0.2

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?**

 $\frac{O}{N}$ 

**X Yes, Manifest attached (Attachment D)**

Category	Value
Total Dry Manure Exported	1,080

## 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															
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	82.1	413.0	88.4	996.0	1.0	-	-	-	-	-	-	-	-	5	3,430
2	170.0	353.0	89.9	1,220.0	1.0	-	-	-	-	-	-	-	-	8	5,090
3	63.3	174.0	37.9	709.0	1.0	-	1.0	55.4	137.0	0.0	31.2	68.5	10.5	6	3,770
4	21.8	103.0	41.4	477.0	1.0	-	-	-	-	-	-	-	-	-	2,460

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	10
Dellavalle	0.2	0.7	0.02	0.2										0.001	

Qtr	Sample #:	Sample Date:	Source	lbs / Ac In			
				Inorg N	Org N	P2O5	K2O
1	3-24L44747	3/24/2023	Valley Tech	18.8	75.0	45.9	271.9
2	5-11L49513	5/11/2023	Valley Tech	38.8	41.5	46.7	333.1
3	8-17L62128	8/17/2023	Valley Tech	14.6	25.1	19.7	193.6
4	10-4L67899	10/4/2023	Valley Tech	5.2	18.4	21.5	130.2

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type
Manure	5-11M49493	5/11/2023	Dry Weight	Valley Tech	Corral Solids
Manure	10-4M67863	10/4/2023	Dry Weight	Valley Tech	Corral Solids

Dry Manure: (As Rec'd)											
	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	1.04	0.40	1.29	-	-	-	-	-	-	-	39.80
Corral	0.82	0.24	1.15	1.29	0.50	0.19	0.30	0.88	-	56.40	53.70

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%

**Field Name/Number:** Barcellos #2 (7)

**Acres: 42.00**

Dry Weight  
As Received

Field Name/Number: Barcellos #2 (7)Acres: 42

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	438.3	109.7	1567.1	6934.8
Nutrients Removed at Harvest	-486.1	-77.7	-574.8	0.0
Nutrient Balance	-47.8	32.1	992.3	6934.8

Winter Nitrogen Crop App / Use Ratio: 1.03

Summer Nitrogen Crop App / Use Ratio: 1.23

Field Name/Number: Barcellos #2 (7) Acres: 42**Winter Crop** **Wheat, Silage**

Nutrient Summary :		Applied	N			
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q1	1.9	Ac In /Ac	126.5	88.4	521.6
	Q2	1.9	Ac In /Ac	106.4	88.4	628.5
Well Water		-	Ac In /Ac	-	-	-
Canal		22.9	Ac In /Ac	0.1	-	-
Atm. Depos.		Yes		7.0	-	-
W. Planting	11/5/22					
W. Harvest	5/15/23	21.9	T/Ac	(232.4)	(64.3)	(314.4)

**Summer Crop** **Corn, Silage**

Nutrient Summary :		Applied	N			
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		100.0	lbs/Ac	100.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	3.8	Ac In /Ac	105.2	74.5	730.5
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	100	-	-
Canal		29.2	Ac In /Ac	0.1	-	-
Atm. Depos.		Yes		7.0	-	-
S. Planting	6/1/23					
S. Harvest	10/20/23	26.7	T/Ac	(253.7)	(113.6)	(375.4)



## 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.

VB (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

Frank P. Barcellos & Sons (Dean & Lee Barcellos)

Vitor Borba (Leases Facility Only)

Print Name

Print Name

  
Date

5-9-24  
Date



# Manure Tracking Manifest

## Operator Information:

Name of Operator: \_\_\_\_\_

Name of Dairy Facility: VITOR BORBA DAIRY (Heifers)

Facility Address: 7721 FLINT AVE. HANFORD 93230  
Number and Street City Zip Code

Contact Person Name and Phone Number: \_\_\_\_\_

## Manure Hauler Information:

Name of Hauling Company/Person: Fragoso Custom Harvesting, Inc.

Address of Hauling Company/Person: 7871 Houston Avenue Hanford 93230  
Number and Street City Zip Code

Contact Person Name and Phone Number: Jared Fragoso (559) 381-5229

## Destination Information:

Composting Facility / Broker (Farmer) Other (Identify) \_\_\_\_\_ (please circle one)

Contact Information of Composting Facility, Broker, Farmer, or Other (as identified above):  
FRANK P. BARCELLOS - SONS 3480 CHAPARRAL CT. HANFORD 93230  
Name Number and Street City Zip Code Phone Number

Manure Destination Address or Assessor's Parcel Number:  
ELDER #1 HANFORD 93230  
Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: 5-6-23 / 5-7-23

## Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 1080 (Tons) or Cubic Yards (Indicate which units used)

Manure Solids Content (if amount reported in tons): \_\_\_\_\_

Manure Density (if amount reported in cubic yards): \_\_\_\_\_

Method used to determine amount of manure: 54 loads at approximately 20 tons

## Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

Operator's Signature: [Signature] Date: \_\_\_\_\_

Hauler's Signature: [Signature] Date: 5-13-23









February 28, 2023

Lab No. : VI 2340610

Customer No. : 4018505

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

### Laboratory Report

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

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

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Barn	02/01/2023	02/01/2023	VI 2340610-001	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

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

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

KD: JRD

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

 Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-02-28

February 28, 2023

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

Description : Barn  
 Project : W-6 Vitor Borba Heifers

Lab No. : VI 2340610-001  
 Customer No. : 4018505

Sampled On : February 1, 2023 at 07:25  
 Sampled By : Marlene & Kaylin  
 Received On : February 1, 2023 at 14:04  
 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	UI	02/14/2023	10:47	sta	EPA 351.2	02/19/2023	21:16	lcr
Nitrate Nitrogen	5.3	0.4	mg/L	10	1		02/02/2023	13:00	lfs	SM 4500-NO3 F	02/02/2023	14:32	lfs
Nitrogen, Total as Nitrogen	5.3	0.5	mg/L		1	1	02/14/2023	10:47	sta	EPA 351.2	02/19/2023	21:16	lcr
Nitrate + Nitrite as N	5.3	0.4	mg/L	10	1		02/02/2023	13:00	lfs	SM 4500-NO3 F	02/02/2023	14:32	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	02/14/2023	10:47	sta	EPA 351.2	02/19/2023	21:16	lcr
Conductivity	408	1	umhos/cm	1600 <sup>2</sup>	1		02/15/2023	13:59	sta		02/15/2023	13:59	sta
Solids, Total Dissolved (TDS)	280	20	mg/L	1000 <sup>2</sup>	1		02/03/2023	11:43	ctl	SM 2540 C	02/06/2023	12:25	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

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

February 28, 2023  
 Livingston Dairy Consulting, Inc.

Lab No. : VI 2340610  
 Customer No. : 4018505

**Quality Control - Wet Chem**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2510B	02/15/2023:201667STA (VI 2340609-001)	Blank Dup	umhos/cm umhos/cm		ND 0.3%	<1 5	
Solids, Total Dissolved	2540CE	02/03/2023:201214CTL (VI 2340617-001) (VI 2340617-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	990.8	ND 104 % 1.1% 1.5%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	02/14/2023:201629STA (VI 2340618-001) (VI 2340608-002)	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	ND 88.1% 62.8% 58.3% 7.6% 47.0% 33.6% 34.7%	<0.5 73-124 54-136 54-136 ≤27 ≤27 54-136 ≤27	435 435
Nitrate + Nitrite as N	4500NO3F	02/02/2023:201191LFS (SP 2301542-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609	ND 98.2% 82.3% 86.9% 1.9%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	02/02/2023:201191LFS (SP 2301542-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609	ND 98.2% 82.3% 86.9% 1.9%	<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.

**Explanation**

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

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information					
42086-03/01/2022					
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 Vitor Barbosa Heiteres Purchase Order Number: Quote Number: VI 20210208-01 Sampler(s) Marlene & Kaylin  Sampling Fee: Pickup Fee: Time: / / Compositor Setup Date: / / Time: / / Lab Number: VI 2346610 4-18505					
Samp Num	Location Description	Date Sampled	Time Sampled		
1	Barn	2/1	7:25AM	DWP	
2				G	
3				G	
4				G	
5				G	
6				G	
7				G	
8				G	
9				G	
10				G	
Method of Sampling: Composite(C) Grab(G)				Type of Sample	**SEE REVERSE SIDE**
Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)				Potable(P) Non-Potable(NP) Ag Water(AgW)	
Bacti 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				***VI Lab to Split for Total N***	8oz(P)-H2SO4
Relinquished Date: 2/1/23 Time: 7:00 AM Relinquished By: [Signature]					
Received By: [Signature] Date: 2/1/23 Time: 1:45 PM					
Remarks:					

Corporate Offices & Laboratory		Office & Laboratory		Office & Laboratory	
853 Corporation Street	2500 Stagecoach Road	563 E. Lindo	3442 Empresa Drive, Suite D	9415 W. Goshen Avenue	
Santa Paula, CA 93060	Stockton, CA 95215	Chico, CA 95926	San Luis Obispo, CA 93401	Visalla, CA 93291	
Phone: (805) 392-2000	Phone: (209) 942-0182	Phone: (530) 343-5818	Phone: (805) 783-2940	Phone: (559) 734-9473	
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063	Fax: (209) 942-0423	Fax: (530) 343-3807	Fax: (805) 783-2912	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 # CTC

2. Were samples received in a chilled condition? Temps: 24 / 4.9 /      /      /       
Surface water SWTR bact samples: A sample that has a temperature upon receipt of  $>10^{\circ}\text{C}$ , whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

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

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): SW

#### Sample Receipt at SP:

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

Acceptable is above freezing to  $6^{\circ}\text{C}$ . If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:

558732941 945  
933

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

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

#### Sample Verification, Labeling and Distribution:

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

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

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

#### 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: _____        | (4018505)                         |
| Problem: _____             | Livingston Dairy Consulting, Inc. |
| Resolution: _____          | VI 2340610                        |

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

iv 02/01/2023 16:18:16



VI 2340610



# 2023 KINGS RIVER WATERSHED CANAL RESULTS

## LEMOORE WEIR

Constituent	Lab	BPO	RL	Units	Sample Month and Results											
					January	February	March	April	May	June	July	August	September	October	November	December
					Physical Parameters/General Chemistry											
Flow	KRWA			cfs	0	0	0	0	0	0	45	0	0	0	0	0
EC	Field	700		umhos/cm							51.3	✓				
pH	Field	6.5-8.3		pH							7.5					
Dissolved Oxygen	Field	5/7		mg/L							9.44					
Temperature	Field	Δ < 58 C		°C							17.7					
Turbidity	BSK	No adv eff.	0.2	NTU							2.2	✓				
TDS	BSK	450	10	mg/L							2.2					
TSS	BSK	-	10	mg/L							ND					
Hardness (as CaCO3)	BSK	-	2.5	mg/L							14					
TOC	BSK	-	0.3	mg/L							1.8					
Pathogens																
E. Coli	BSK	320		MPN							46					
Fecal Coliform	BSK	400		MPN/100mL							46					
Nutrients																
Nitrate (+ Nitrite) - N	BSK	10	0.05	mg/L							0.02	✓				
Total Kjeldahl Nitrogen	BSK		0.5	mg/L							0.17					
Ammonia - N	BSK	chart	0.1	mg/L							ND					
Un-ionized Ammonia	BSK	chart	0.0015	mg/L							ND					
Orthophosphate - P	BSK	-	0.01	mg/L							0.0069					
Phosphorus	BSK		0.1	mg/L							0.014					
Water Column Toxicity																
Toxicity, minnow	PER	> 80%	(96h test)	% survival							100					
Toxicity, water flea	PER	> 80%	(48h test)	% survival							100					
Toxicity, algae	PER		(48h test)	cells/mL							4800000					
Toxicity, algae (control)	PER		(48h test)	cells/mL							2840000					

