



Livingston Dairy Consulting, Inc.

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

Vitor Borba Heifers (Prev. Vitor Borba #2)
7410 7th Avenue, Hanford CA 93230

- Annual Report
- Water Analysis Samples
- Manure Manifest
- Facility / Land Map
- 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: 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:

1,292.68 ton/yr

@40% Moisture
Total nitrogen from manure:

80,387 lbs

8,326 lbs

31,574 lbs

Total salt from manure:
-

After Ammonia (30% loss applied)

56,271 lbs per reporting period

Process Wastewater Generated:

Process wastewater generated:

- gal

Total nitrogen generated:

- lbs

Total salt (TDS) generated:

- lbs

List of Land Application Areas

List of Fresh Water Sources

Source Description	Type	Subsurface (Tile) Drainage Sources		Canal	Surface water No
		No	No		
Barn Well	Ground Water				
Ag Well 5	Ground Water				

PLANT TISSUE ANALYSIS (Recorded As Received) (WINTER)

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)

Detectable Limits
Valley Tech
Dellavalle

0.10%	0.0001%	0.001%	0.05%
0.05%	0.0005%	0.005%	0.05%
0.01%	0.001%	0.01%	0.01%
0.001%	0.0001%	0.001%	0.001%

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
Barcellos #2 (7)	Wheat, Silage	11/5/22	5/15/23	6-2H52138	64.40	0.53	0.06	0.60	-	8.42	Dry Weight

Detectable L Valley Tech
Dellawalle

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
Barcellos #2 (7)	Corn, Silage	6/1/23	10/20/23	11-6H71988	64.30	0.47	0.09	0.59	-	6.16	Dry Weight

Detectable L Valley Tech
Dellavalley

Well / Canal Analysis

Soil Analysis (Winter)

Detectable Limits
Valley Tech
DellqValle

Soil Analysis (Summer)

Detectable limits

Deleteable Li
Vallou Tech

Valley Tech
Dallas/Ft. Worth

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?

20

X Yes, Manifest attached (Attachment D)

Nutrient Import

No Dry manure nutrient imports entered

- Process wastewater nutrient imports entered
- Commercial or other nutrient imports entered

Total Dry Manure Exported 1,080

Total Process Water Exported

Process Water & Manure Analysis

Process Water	
Quarters:	NH4N (mg/L)
	TKN (mg/L)
1	82.1
2	170.0
3	63.3
4	21.8

	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	413.0	88.4	996.0	1.0	-	-	-	-	-	-	-	-	3,430
2	353.0	89.9	1,220.0	1.0	-	-	-	-	-	-	-	-	5,090
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	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
Dellavalle	0.2	0.7	0.02	0.2	0.01	0.05	0.4	0.10	0.9	3	0.01	0.03	0.10

Qtr	Sample #:	Sample Date:	Source		Inorg N	Org N	P2O5	K2O
1	3-24144747	3/24/2023	Valley Tech	lbs / Ac in	18.8	75.0	45.9	271.9
2	5-11149513	5/11/2023	Valley Tech		38.8	41.5	46.7	333.1
3	8-17162128	8/17/2023	Valley Tech		14.6	25.1	19.7	193.6
4	10-4167899	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%	0.003%	0.001%	0.001%	0.000%	0.001%	0.001%	0.001%	0.001%	0.001%
Dellavalle	0.01%	0.01%	0.001%	0.001%	0.001%	0.000%	0.001%	0.001%	0.001%	0.001%	0.001%

Nutrient Applications

Field Name/Number:		Barcellos #2 (7)						Acres:		42.00		
Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data				Yield	
		N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS	%	Expected Yield (tons/ac)	Actual Yield (tons/ac)			
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
11/5/22	W. Planting	-	-	-	-	-	-	-	-	-	-	
12/30/22	Canal	-	-	6.27	-	0.0	-	-	2	-	-	
2/5/23	Canal	-	-	5.13	-	0.0	-	-	2	-	-	
2/5/23	Process Water	-	-	-	1.93	126.5	38.6	434.7	1,497	-	-	
3/18/23	Canal	-	-	6.44	-	0.0	-	-	2	-	-	
4/15/23	Canal	-	-	5.05	-	0.0	-	-	2	-	-	
4/15/23	Process Water	-	-	-	1.89	106.4	38.6	523.7	2,185	-	-	
5/15/23	W. Harvest	-	-	-	-	(232.4)	(28.1)	(262.0)	-	8.42	21.90	
-	-	-	-	-	-	-	-	-	-	-	-	
9/14/23	S. Comm Fert App.	-	-	100	-	100.0	-	-	-	-	-	
5/25/23	Canal	-	-	-	6.35	-	0.0	-	-	2	-	
6/1/23	S. Planting	-	-	-	-	-	-	-	-	-	-	
7/2/23	Canal	-	-	-	5.09	-	0.0	-	-	2	-	
7/2/23	Process Water	-	-	-	-	1.91	53.0	16.4	306.9	1,632	-	
8/5/23	Canal	-	-	-	5.01	-	0.0	-	-	1	-	
8/5/23	Process Water	-	-	-	-	1.88	52.2	16.1	301.8	1,605	-	
9/14/23	Canal	-	-	-	6.31	-	0.0	-	-	2	-	
10/2/23	Canal	-	-	-	6.48	-	0.0	-	-	2	-	
10/20/23	S. Harvest	-	-	-	-	(253.7)	(49.6)	(312.8)	-	6.16	26.71	
Totals:		0.0		100	52.14	7.61	(48)	32	992	6,935	14.58	
									0		48.62	

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: 1.03Summer Nitrogen Crop App / Use Ratio: 1.23Field Name/Number: Barcellos #2 (7)Acres: 42

Winter Crop Nutrient Summary :	Wheat, Silage		N			
	Applied					
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 Nutrient Summary :	Corn, Silage		N			
	Applied					
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.

V/B _____
(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

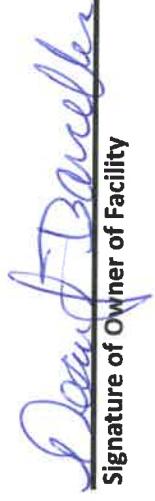
Written Agreements:

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

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

Print Name

Vitor Borba (Leases Facility Only)

Print Name


Date


Date


Signature of Operator of Facility

Manure Tracking Manifest

Operator Information:

Name of Operator: _____

Name of Dairy Facility: VITDR BDRBA 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 93230Name FRANK P. BARCELLOS - SONS Number and Street 3480 CHAPARRAL CT. City HANFORD Zip Code 93230 Phone Number _____Manure Destination Address or Assessor's Parcel Number:
ELDER #1 HANFORD 93230Number and Street ELDER #1 City HANFORD Zip Code 93230 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): _____

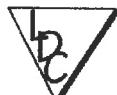
Method used to determine amount of manure: 54 loads at approximately 20 tons**Certification:**

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: Jared Barcellos

Date: _____

Hauler's Signature: Jared BarcellosDate: 5-13-23



Livingston Dairy Consulting, Inc.

FIELD ACTIVITY REPORT

Facility Name Vitor Borba Heifers
7410 7th Ave., Hanford
Kings County

2023

Sample Collection Equipment: Bottle Container

Sample Container: (Circle one)

Bottle Container: 8 fl oz 16 fl oz 32 fl oz

Sample Collection Location: (Circle one)

Discharge Pipe

Sample Collection Method: (Circle one) *All Samples are labeled with the facility name, date, contents, location and description ** Please see the Sample and Analysis 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



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

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

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

KD: JRD

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

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

Section: Case Narrative

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Page 1 of 3

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

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

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

Office & Laboratory
3442 Empress 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

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			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	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	I	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	U1	02/14/2023	10:47	sta	EPA 351.2	02/19/2023	21:16	lcr
Conductivity	408	1	umhos/cm	1600 ²	1		02/15/2023	13:59	sta		02/15/2023	13:59	sta
Solids, Total Dissolved (TDS)	280	20	mg/L	1000 ²	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.

I 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
Wet Chem								
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)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 88.1% 62.8% 58.3% 7.6% 47.0% 33.6% 34.7%	<0.5 73-124 54-136 54-136 ≤27 <Å% 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 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 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.

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: 14.9 / / / /
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.
3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
5. VOAs checked for Headspace? Yes No N/A
6. Were sample custody seals intact? Yes No N/A
7. If required, was sample split for pH analysis? Yes No N/A
8. Were all analyses within holding times at time of receipt? Yes No N/A
9. Verify sample date, time and sampler name Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): SJ

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 14 / / / / / /
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: 558732941 945
933

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

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

Sample Verification, Labeling and Distribution:

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

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

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

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:
Resolution:

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

Livingston Dairy Consulting, Inc.

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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
Physical Parameters/General Chemistry														
Flow	KRWA			cfs	0	0	0	0	0	45	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 < 5° 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 CaCO ₃)	BSK	-	2.5	mg/L						14				
TOC	BSK	-	0.3	mg/L						1.8				
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				

