

# **2023 ANNUAL REPORT**

Prepared for

## **Jersey Creek Dairy**

14857 5<sup>th</sup> Ave  
Hanford CA 93230

Kings County

January 01 through December 31, 2023

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Prepared by:



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**2023 ANNUAL REPORT****Jersey Creek Dairy****Designated Person(s) Accountable for the Annual Report****CERTIFICATION**

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in 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.*

Dairy Owner

Signature: \_\_\_\_\_

Print: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

 Dairy Operator  
Owner is also the Operator

Signature: \_\_\_\_\_

Print: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Facility Configuration Changes or Information about this Report**

Nothing significant to report.

This report contains information required to be submitted as outlined by the Annual Reporting section of the Revised Monitoring and Reporting Program No. R5-2013-0122 (pages MRP-12 through 14) for this dairy facility. This report is due by July 01 following the reporting year.

## I. General Section

### 1. Reporting Period

This Annual Monitoring Report contains the required information for the period of January 01 through December 31. Field data contains information pertaining to crop activities for all crops harvested within this period. This allows for continuity of the winter crops.

### 2. Herd Profile and Housing of the Dairy

The maximum and average number and type of animals, whether in open confinement or housed under roof is provided in Attachment A.

### 3. Estimated Amount of Total Manure, Process Water, and Nutrients Generated

The estimated total amount of manure and process wastewater generated for this period is provided in Attachment A.

### 4. Estimated Amount of Total Manure, Process Water, and Nutrients Applied

The estimated total amount of manure and process wastewater applied for this period is provided in Attachment A.

Individual applications to each field (Item 17, Record Keeping) is provided in Attachment E.

### 5. Ratio of Total Nitrogen Applied to Removed for Land Application Areas

The ratio of total nitrogen (inorganic & organic) applied to land application areas and the total nitrogen removed by crop harvest is provided in Attachment C.

Also provided is the Plant Available Nitrogen (PAN) ratio which includes the inorganic nitrogen and calculates how much of the organic nitrogen has become available to the plant through mineralization for that crop. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

### 6. Estimated Amount of Total Manure, Process Water, and Nutrients Transferred

The estimated total amount of manure and process wastewater transferred offsite for this period is provided in Attachment A.

Individual transfers are documented in Attachment G.

Transfer documentation can be found in Item 13, Manure Tracking Manifests.

### 7. Land Application Areas Without Manure Applications

The total number of acres and APN's for all land application areas that did not receive manure applications during the period is provided in Attachment B.

### 8. Land Application Areas With Manure Applications

The total number of acres and APN's for all land application areas that did receive manure applications during the period is provided in Attachment B.

**9. Summary of Manure and Process Wastewater Discharges from the Production Area**

A summary of all manure and wastewater 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 that occurred during the reporting period is provided.

- No discharges occurred during the reporting period.
- Yes, \_\_\_\_\_ discharges occurred. (See Attachment for detailed reports.)

**10. Summary of Storm Water Discharges from the Production Area**

A summary of all storm water discharges from the production areas to surface water during the reporting period is provided.

- No discharges occurred during the reporting period.
- Yes, \_\_\_\_\_ discharges occurred. (See Attachment for detailed reports.)

**11. Summary of Discharges from the Land Application Area(s)**

A summary of all discharges from land application area to surface water that have occurred during the reporting period is provided.

- No discharges occurred during the reporting period.
- Yes, \_\_\_\_\_ discharges occurred. (See Attachment for detailed reports.)

**12. Nutrient Management Plan Update****12.1 Was the facility's NMP updated in the reporting period?**

- No.
- Yes.

**12.2 Was the facility's NMP developed and certified by a certified nutrient management specialist?**

- No.
- Yes.

**13. Manure/Process Wastewater Tracking Manifests**

Solid, slurry, or process wastewater that is sold, given away, or otherwise removed from the facility is documented on a manifest.

- No transfers occurred.
- Yes, attached are the manure and/or wastewater tracking manifests (See Attachment D's as titled by R5-2007-0035 Attachment D).

**14. Written Agreements**

Any process wastewater transferred to a third party must have a written agreement consistent with the Regional Board requirements. Any new agreements within the reporting period must be submitted.

- No wastewater agreements for this facility.
- There are \_\_\_\_\_ current wastewater agreements for this facility.
- There are \_\_\_\_\_ new agreements this reporting period and are attached.

**15. Laboratory Analysis for Discharges**

Laboratory analysis chain-of-custody forms and laboratory quality assurance/quality control documentation of all discharges described in Items #9, #10 and/or #11 are in the reports provided in Attachment J.

**16. Tabulated Nutrient Analytical Data**

Analytical data for samples of manure, process wastewater, irrigation water, soil and plant tissue are tabulated in Attachment H.

**17. Record-Keeping Results**

17.1 Response of Item B.2.b and B.3.l. Corrective Action records to correct deficiencies of inspections from the production and land application areas.

- No corrective actions during the reporting period.
- Yes, \_\_\_\_\_ corrective actions. (See Attachment K for detailed reports.)

17.2 Response of Item B.2.c. Records of production area overflow are in reports provided in Attachment J.

17.3 Response of Items B.3.a and b. See Attachment D for field acres, crops, planting dates, expected yields, and harvest information.

17.4 Response of Item B.3.c, d and j. See Attachment E for field applications of solid and liquid manure and the total amount of nutrients applied.

17.5 Response of Item B.3.e. See Attachment F for weather conditions before, during, and after manure applications.

**II. Groundwater Reporting Section****1. Supply Wells and Tile Drainage System Monitoring**

Water supply wells and/or subsurface (tile) drainage systems laboratory data including chain-of-custody and laboratory quality assurance/quality control documentation are attached.

**2. Groundwater Monitoring Well Systems**

- This facility does not have groundwater monitoring wells.
- This facility has groundwater monitoring wells required by the Regional Board and a certified report is attached.
- This facility has groundwater monitoring wells required by the County and the sampling requirements are attached.
- This facility has groundwater monitoring wells for research purposes. Data is exempt from this report.

**III. Storm Water Reporting Section****1. Storm Water Discharges from Land Application Area**

A summary of all storm water discharges from the land application areas during the reporting period is provided including laboratory analysis chain-of-custody forms and laboratory quality assurance/quality control documentation

- No discharges occurred during the reporting period.
- Yes, \_\_\_\_\_ discharges occurred. (See Attachment J for detailed reports.)

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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Attachment A

**Herd Profile, Housing, and Estimated Total Manure Production**

(Ref MRP Annual Report, General Section, Items 3 and 4)

Average Herd Profile and Housing Type

Type of Animals	Average Open Confinement	Average Housed Under Roof	Max Open Confinement	Max Housed Under Roof	Average Live Weight	Average Milk Production (lbs/cow/day)	Predominant Breed
Milk Cows	165	500	175	500	1,400	58.0	Jersey
Dry Cows	89	0	90	0	1,600		Jersey
Bred Heifers 15-24 Months	250	0	275	0	1,160		Jersey
Heifers 7-14 Months	95	0	100	0	685		Jersey
Calves 4-6 Months	75	0	95	0			Jersey
Calves 0-3 Months	0	0	0	0			Jersey
Other type of commercial animals							

Number of months the dairy was occupied: 12

Dairy Name: Jersey Creek Dairy

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Estimated Total Amount of Manure and Nutrients Based On Average Herd Size

Type of Animals	Total Manure (lbs/day)	Nitrogen (lbs/day)	Phosphorus (lbs/day)	Potassium (lbs/day)
Milk Cows	11,141	578	97	115
Dry Cows	695	32	4	21
Bred Heifers 15-24 Months	1,704	67	10	
Heifers 7-14 Months	401	14	2	
Calves 4-6 Months	166	7	1	
Calves 0-3 Months	0	0	0	
Other type of commercial animals				
<b>Total Pounds for report period:</b>		254,558	41,777	49,626
<b>Total tons for report period:</b>	2,575			

Notes:

1. Equations and factors used in this table to determine total manure, nitrogen, phosphorus and potassium were obtained from ASAE D384.2 March 2005.
2. The quantities presented in this table include both solid and liquid excretions and do not account for any losses or division into solid or liquid portions.

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Estimated Total Amount of Solid Manure and Nutrients Generated

Total Tons (As Is) of Manure Generated	Total Ibs Generated				
	Total Dry Manure	Nitrogen	Phosphorus	Potassium	Salt
1,030	968,406	15,010	5,810	24,694	500,666

Estimated Total Amount of Process Wastewater and Nutrients Generated

Total Gallons of Process Wastewater Generated (1,000 gals.)	Total Ibs Generated			
	Nitrogen	Phosphorus	Potassium	Salt
13,950	50,982	6,193	48,491	303,150

Notes:

1. Generated totals are the sum of what was applied to all land application areas and what was transferred to others. See Attachment E for individual field applications and Attachment G for individual transfers.

2. Dry tons are calculated by:

$$\text{Dry Tons} = \text{Tons As-Is} * (100\text{-sample moisture \%}) / 100$$

3. Solid manure nutrient pounds applied are calculated by:

$$\text{Total (N,P,K,Salts) lbs} = (\text{Dry Tons}) * ((\%N,P,K,Ash)/100) * 2,000$$

4. Process wastewater nutrient pounds applied are calculated by:

$$\text{Total (P,K,Salts) lbs} = (\text{Gallons}) * (P,K,TDS mg/l) * (8.337E-06)$$

$$\text{Total (N) lbs} = (\text{Gallons}) * (NO_3-N + TKN mg/l) * (8.337E-06)$$

5. All solid manure applied is considered as the organic form of nitrogen. Inorganic and organic forms of nitrogen in process wastewater are calculated by:

$$\text{Inorganic N lbs} = (\text{Gallons}) * (NO_3-N + NH_4-N mg/l) * (8.337E-06)$$

$$\text{Organic N lbs} = (\text{Gallons}) * (TKN-NH_4-N mg/l) * (8.337E-06)$$

6. Estimated total salt content in solid manure is determined by fixed solids (ash) and in process wastewater by total dissolved solids. These are not direct relationships but are being used for estimation purposes. Ash can vary widely in a sample if corral dirt becomes part of the sample. Also, ash content is only required to be analyzed once every two years. The latest resultant value is applied to any subsequent applications.

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Estimated Amount of Total Solid Manure And Nutrients Applied

Total Tons (As Is) of Manure Applied	Total lbs Applied				
	Manure	Nitrogen	Phosphorus	Potassium	Salt
1,030	968,406	15,010	5,810	24,694	500,666

Estimated Amount of Total Wastewater And Nutrients Applied

Total Gallons of Process Wastewater Applied (1,000 gals.)	Total lbs Applied			
	Nitrogen	Phosphorus	Potassium	Salts
13,950	50,982	6,193	48,491	303,150

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Estimated Amount of Total Solid Manure And Nutrients Transferred

Total Tons (As Is) of Manure Transferred	Total Ibs Transferred				
	Total Manure	Nitrogen	Phosphorus	Potassium	Salt
0	0	0	0	0	0

Estimated Amount of Total Wastewater And Nutrients Transferred

Total Gallons Process Wastewater Transferred (1,000 gal)	Total Ibs Transferred			
	Nitrogen	Phosphorus	Potassium	Salts
0	0	0	0	0

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Attachment B

**Land Application Area**

(Ref MRP Annual Report, General Section, Items 7 and 8)

**All APNs Associated With This Dairy**

Total Number of APN Acres Associated with this Dairy: 394.29

APN	County	Acres	Land Use	APN Not Part of Land Application Area
028-060-007	Kings	76.96	Cropland	
028-060-010	Kings	49.66	Dairy Site/Cropland	
028-060-011	Kings	60.00	Dairy Site/Cropland	
028-060-013	Kings	207.67	Cropland	

**Total Land Application Areas For Manure And Wastewater**

Total Land Application Area Acres: 354.0

Total Acres With Manure Applied For This Report: 254.0

Total Acres Without Manure Applied For This Report: 100.0

Field ID	Acres	APN	Type of Waste Applied For This Report	Field Not Part of Land Application Area
01	37.0	028-060-010 028-060-011	Liquid	
02	54.0	028-060-010 028-060-011	Both	
03	38.0	028-060-007	Both	
04	38.0	028-060-007	Solid	
05	35.0	028-060-013	Liquid	

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<b>Field ID</b>	<b>Acres</b>	<b>APN</b>	<b>Type of Waste Applied For This Report</b>	<b>Field Not Part of Land Application Area</b>
06	52.0	028-060-013	Liquid	
07	60.0	028-060-013	None	
08	40.0	028-060-013	None	

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>	
Field ID	01
Crop	Corn Silage
Expected Yield (tons/ac)	28
Acres	37
Start Date	4/17/2023
<b>Applications</b>	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	22
Lagoon Water	
Total Applied	
PAN Applied	138
Irrigation Source	
Atmospheric	112
	1
	7
<b>Removal</b>	
Planned Harvest	
Actual Harvest	209
<b>Balance Ratio</b>	
By Crop	
Total	0.70
PAN	0.68
By Field	
Total	0.70
PAN	0.68
By Farm	
Total	0.65
PAN	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>		
Field ID	02	02
Crop	Barley	Corn Silage
Expected Yield (tons/ac)	25	28
Acres	54	54
Start Date	11/03/2022	6/02/2023
<b>Applications</b>		
Commercial		
Solid Manure		
Total Applied		73
PAN Applied	0	16
Lagoon Water		
Total Applied	215	
PAN Applied	93	50
Irrigation Source	0	1
Atmospheric	7	7
<b>Removal</b>		
Planned Harvest		
Actual Harvest	225	270
<b>Balance Ratio</b>		
By Crop		
Total	0.99	0.30
PAN	0.45	0.28
By Field		
Total	0.61	0.61
PAN	0.35	0.35
By Farm		
Total	0.65	0.65
PAN	0.44	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>		
Field ID	03	03
Crop	Rye Grass	Corn Silage
Expected Yield (tons/ac)	20	28
Acres	38	38
Start Date	11/18/2022	7/04/2023
<b>Applications</b>		
Commercial		
Solid Manure		
Total Applied		146
PAN Applied	9	52
Lagoon Water		
Total Applied	98	
PAN Applied	47	28
Irrigation Source	7	65
Atmospheric	7	7
<b>Removal</b>		
Planned Harvest		
Actual Harvest	106	191
<b>Balance Ratio</b>		
By Crop		
Total	1.05	1.14
PAN	0.67	0.79
By Field		
Total	1.11	1.11
PAN	0.75	0.75
By Farm		
Total	0.65	0.65
PAN	0.44	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>		
Field ID	04	04
Crop	Rye Grass	Corn Silage
Expected Yield (tons/ac)	22	28
Acres	38	38
Start Date	11/18/2022	7/08/2023
<b>Applications</b>		
Commercial		
Solid Manure		
Total Applied		146
PAN Applied	0	32
Lagoon Water		
Total Applied		
PAN Applied	7	10
Irrigation Source	9	61
Atmospheric	7	7
<b>Removal</b>		
Planned Harvest		
Actual Harvest	110	164
<b>Balance Ratio</b>		
By Crop		
Total	0.15	1.30
PAN	0.21	0.67
By Field		
Total	0.84	0.84
PAN	0.49	0.49
By Farm		
Total	0.65	0.65
PAN	0.44	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>		
Field ID	05	05
Crop	Triticale	Corn Silage
Expected Yield (tons/ac)	25	25
Acres	35	35
Start Date	11/02/2022	6/19/2023
<b>Applications</b>		
Commercial		
Solid Manure		
Total Applied	330	248
PAN Applied	166	204
Lagoon Water		
Total Applied	10	1
PAN Applied	7	7
<b>Removal</b>		
Planned Harvest		
Actual Harvest	359	233
<b>Balance Ratio</b>		
By Crop		
Total	0.97	1.10
PAN	0.51	0.91
By Field		
Total	1.02	1.02
PAN	0.67	0.67
By Farm		
Total	0.65	0.65
PAN	0.44	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>		
Field ID	06	06
Crop	Triticale	Corn Silage
Expected Yield (tons/ac)	25	28
Acres	52	52
Start Date	11/02/2022	6/14/2023
<b>Applications</b>		
Commercial		
Solid Manure		
Total Applied	199	
PAN Applied	96	34
Lagoon Water		
Total Applied	10	67
PAN Applied	7	7
<b>Removal</b>		
Planned Harvest		
Actual Harvest	257	201
<b>Balance Ratio</b>		
By Crop		
Total	0.84	0.37
PAN	0.44	0.54
By Field		
Total	0.63	0.63
PAN	0.48	0.48
By Farm		
Total	0.65	0.65
PAN	0.44	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>	
Field ID	07
Crop	Alfalfa
Expected Yield (tons/ac)	8
Acres	60
Start Date	12/16/2022
<b>Applications</b>	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	
Lagoon Water	
Total Applied	
PAN Applied	
Irrigation Source	1
Atmospheric	14
<b>Removal</b>	
Planned Harvest	392
Actual Harvest	
<b>Balance Ratio</b>	
By Crop	
Total	0.04
PAN	0.04
By Field	
Total	0.04
PAN	0.04
By Farm	
Total	0.65
PAN	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment C

**Nitrogen Balance Ratio - Applied to Removed**

(Nitrogen values presented as lbs/acre)

<b>Field Information</b>	
Field ID	08
Crop	Alfalfa
Expected Yield (tons/ac)	8
Acres	40
Start Date	11/01/2022
<b>Applications</b>	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	
Lagoon Water	
Total Applied	
PAN Applied	
Irrigation Source	1
Atmospheric	14
<b>Removal</b>	
Planned Harvest	248
Actual Harvest	
<b>Balance Ratio</b>	
By Crop	
Total	0.06
PAN	0.06
By Field	
Total	0.06
PAN	0.06
By Farm	
Total	0.65
PAN	0.44

**Notes:**

Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.

PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

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Attachment D

**Results of Record-Keeping Requirements  
Planting and Harvest Data**

(Ref MRP Annual Report, General Section, Item 17, subitems B.3 a and b)

\* - A crop's planting date is reported in the harvest year with the yield of that crop.

\*\* - If no manure is applied to the crop within the year, harvest is not reported (See Attachment E).

\*\*\* - For multiple year crops, a starting date is set to increment into annual periods.

Crops and Harvests

Field ID	Crop	Acres	Plant Date *	Multi Year Crop ***	Harvest Date **	Yield (tons/acre)		Total Tons
						Expected	Actual	
01	Corn Silage	37.00	04/17/2023		08/02/2023	28	25.62	948
02	Barley	54.00	11/03/2022		04/28/2023	25	18.89	1,020
02	Corn Silage	54.00	06/02/2023		09/12/2023	28	31.04	1,676
03	Rye Grass	38.00	11/18/2022		05/22/2023	20	8.68	330
03	Corn Silage	38.00	07/04/2023		10/23/2023	28	24.13	917
04	Rye Grass	38.00	11/18/2022		05/22/2023	22	8.68	330
04	Corn Silage	38.00	07/08/2023		11/03/2023	28	21.03	799
05	Triticale	35.00	11/02/2022		05/25/2023	25	25.49	892
05	Corn Silage	35.00	06/19/2023		10/05/2023	25	35.71	1,250
06	Triticale	52.00	11/02/2022		05/25/2023	25	23.56	1,225
06	Corn Silage	52.00	06/14/2023		10/05/2023	28	24.04	1,250
07	Alfalfa	60.00	12/16/2022	X		8		
08	Alfalfa	40.00	11/01/2022	X		8		

Dairy Name: Jersey Creek Dairy

Page 2 of 2

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Nutrients Removed

Field ID	Crop	Harvest Date	Total Tons (wet)	Total Tons (dry)	Sample ID	% Moisture	Conc. From Sample Analysis (% dry basis)			Total Pounds Removed		
							N	P	K	N	P	K
01	Corn Silage	8/02/2023	948	325		65.77	1.19	0.19	1.06	7,723	1,233	6,879
						38-22-P-12	65.77	1.19	0.19			
02	Barley	4/28/2023	1,020	303		70.27	2.01	0.42	2.59	12,190	2,547	15,708
						38-22-P-17	70.27	2.01	0.42			
02	Corn Silage	9/12/2023	1,676	513		69.41	1.42	0.34	1.79	14,560	3,486	18,354
						38-23-P-10	69.41	1.42	0.34			
03	Rye Grass	5/22/2023	330	105		68.09	1.90	0.38	2.46	4,002	800	5,181
						38-23-P-4	68.09	1.90	0.38			
03	Corn Silage	10/23/2023	917	349		61.95	1.04	0.29	1.10	7,258	2,024	7,676
						38-23-P-12	61.95	1.04	0.29			
04	Rye Grass	5/22/2023	330	98		70.30	2.11	0.41	2.56	4,136	804	5,018
						38-23-P-5	70.30	2.11	0.41			
04	Corn Silage	11/03/2023	799	289		63.88	1.08	0.20	0.92	6,234	1,154	5,310
						38-23-P-13	63.88	1.08	0.20			
05	Triticale	5/25/2023	892	265		70.33	2.36	0.50	2.91	12,492	2,647	15,403
						38-23-P-6	70.33	2.36	0.50			
05	Corn Silage	10/05/2023	1,250	341		72.71	1.20	0.20	1.59	8,187	1,365	10,848
						38-23-P-14	72.71	1.20	0.20			
06	Triticale	5/25/2023	1,225	339		72.33	1.98	0.47	2.92	13,423	3,186	19,795
						38-23-P-7	72.33	1.98	0.47			
06	Corn Silage	10/05/2023	1,250	393		68.54	1.32	0.26	1.28	10,382	2,045	10,067
						38-23-P-15	68.54	1.32	0.26			

Dairy Name: Jersey Creek Dairy

Page 1 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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Attachment E

**Results of Record-Keepering Requirements  
Manure Applications to Fields**

(Ref MRP Annual Report, General Section, Item 17, subitems B.3 c, d, and j)

Field: 01

Crop: Corn Silage

**Total Nutrients Applied To This Crop:**

Nitrogen	5,098	lbs
Phosphorus	684	lbs
Potassium	4,344	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Dairy Name: Jersey Creek Dairy

Page 2 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 01

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
07/17/2023	450		0.00	158	31.7	149.0	590	118	557
		38-23-L-2	0.00	158	31.7	149.0			
07/02/2023	450		0.00	158	31.7	149.0	590	118	557
		38-23-L-2	0.00	158	31.7	149.0			
06/14/2023	450		0.00	158	31.7	149.0	590	118	557
		38-23-L-2	0.00	158	31.7	149.0			
06/03/2023	450		0.00	440	44.0	358.0	1,643	164	1,337
		38-22-L-4	0.00	440	44.0	358.0			
05/24/2023	450		0.00	440	44.0	358.0	1,643	164	1,337
		38-22-L-4	0.00	440	44.0	358.0			
Total =	2,250						5,057	684	4,344

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO3-N	NH4-N	TKN	
5/24/2023	4,500							9.0
		38-23-I-1	Lift Pump	Surface	0.20			9.0
6/03/2023	4,500							9.0
		38-23-I-1	Lift Pump	Surface	0.20			9.0
6/14/2023	4,500							9.0
		38-23-I-1	Lift Pump	Surface	0.20			9.0
7/02/2023	3,500							7.0
		38-23-I-1	Lift Pump	Surface	0.20			7.0
7/17/2023	3,500							7.0
		38-23-I-1	Lift Pump	Surface	0.20			7.0
Total =	20,500							41.0

Dairy Name: Jersey Creek Dairy

Page 3 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 02

Crop: Barley

Total Nutrients Applied To This Crop:

Nitrogen	11,522	lbs
Phosphorus	1,463	lbs
Potassium	10,749	lbs

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No <sub>3</sub> -N	TKN	P	K	N	P	K
03/01/2023	2,500		0.00	555	70.5	518.0	11,516	1,463	10,749
		38-23-L-1	0.00	555	70.5	518.0			
Total =	2,500						11,516	1,463	10,749

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
3/01/2023	3,100							6.2
	3,100	38-23-I-1	Lift Pump	Surface	0.20			6.2
Total =	3,100							6.2

Dairy Name: Jersey Creek Dairy

Page 4 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 02

Crop: Corn Silage

**Total Nutrients Applied To This Crop:**

Nitrogen	4,002	lbs
Phosphorus	1,523	lbs
Potassium	6,473	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
05/15/2023	270	127		52.990	1.550	0.600	2.550	3,935	1,523	6,473
Totals =	270	127	38-23-M-1	52.990	1.550	0.600	2.550			
								3,935	1,523	6,473

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

**Irrigation Applications:**

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 02

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
5/18/2023	8,500							17.0
	8,500	38-23-I-1	Lift Pump	Surface	0.20			17.0
6/27/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
7/13/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
7/24/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
8/07/2023	5,500							11.0
	5,500	38-23-I-1	Lift Pump	Surface	0.20			11.0
<b>Total =</b>	<b>33,500</b>							<b>67.0</b>

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 03

Crop: Rye Grass

**Total Nutrients Applied To This Crop:**

Nitrogen	3,965	lbs
Phosphorus	468	lbs
Potassium	3,440	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No <sub>3</sub> -N	TKN	P	K	N	P	K
11/28/2022	800		0.00	555	70.5	518.0	3,685	468	3,440
		38-23-L-1	0.00	555	70.5	518.0			
Total =	800						3,685	468	3,440

**Irrigation Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
11/28/2022	3,500							280.0
		38-22-W-6	Well #5	Well	9.60			280.0
Total =	3,500							280.0

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 03

Crop: Corn Silage

**Total Nutrients Applied To This Crop:**

Nitrogen	6,706	lbs
Phosphorus	2,144	lbs
Potassium	9,111	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
05/30/2023	380	179		52.990	1.550	0.600	2.550	5,538	2,144	9,111
			38-23-M-1	52.990	1.550	0.600	2.550			
Totals =	380	179						5,538	2,144	9,111

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

**Irrigation Applications:**

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 03

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
6/21/2023	7,500							242.5
	2,500	38-23-W-3	Well #5	Well	11.00	0.20		232.5
	5,000	38-23-I-1	Lift Pump	Surface	0.20			10.0
7/29/2023	7,500							242.5
	5,000	38-23-I-1	Lift Pump	Surface	0.20			10.0
	2,500	38-23-W-3	Well #5	Well	11.00	0.20		232.5
8/14/2023	7,500							242.5
	2,500	38-23-W-3	Well #5	Well	11.00	0.20		232.5
	5,000	38-23-I-1	Lift Pump	Surface	0.20			10.0
8/23/2023	5,500							147.5
	4,000	38-23-I-1	Lift Pump	Surface	0.20			8.0
	1,500	38-23-W-3	Well #5	Well	11.00	0.20		139.5
8/31/2023	5,500							147.5
	1,500	38-23-W-3	Well #5	Well	11.00	0.20		139.5
	4,000	38-23-I-1	Lift Pump	Surface	0.20			8.0
9/11/2023	4,500							145.5
	3,000	38-23-I-1	Lift Pump	Surface	0.20			6.0
	1,500	38-23-W-3	Well #5	Well	11.00	0.20		139.5
Total =	38,000							1,168.0

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 04

Crop: Rye Grass

**Total Nutrients Applied To This Crop:**

Nitrogen	341	lbs
Phosphorus	0	lbs
Potassium	0	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No <sub>3</sub> -N	TKN	P	K	N	P	K
Total =									

**Irrigation Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
12/01/2022	4,300							340.5
	2,200	38-22-W-4	Well #4	Well	7.90			145.2
	2,100	38-23-W-3	Well #5	Well	11.00	0.20		195.3
Total =	4,300							340.5

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 04

Crop: Corn Silage

**Total Nutrients Applied To This Crop:**

Nitrogen	6,796	lbs
Phosphorus	2,144	lbs
Potassium	9,111	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
05/30/2023	380	179		52.990	1.550	0.600	2.550	5,538	2,144	9,111
			38-23-M-1	52.990	1.550	0.600	2.550			
Totals =	380	179						5,538	2,144	9,111

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

**Irrigation Applications:**

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 04

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
6/25/2023	7,500							242.5
	2,500	38-23-W-3	Well #5	Well	11.00	0.20		232.5
	5,000	38-23-I-1	Lift Pump	Surface	0.20			10.0
8/02/2023	7,500							242.5
	5,000	38-23-I-1	Lift Pump	Surface	0.20			10.0
	2,500	38-23-W-3	Well #5	Well	11.00	0.20		232.5
8/17/2023	6,500							240.5
	2,500	38-23-W-3	Well #5	Well	11.00	0.20		232.5
	4,000	38-23-I-1	Lift Pump	Surface	0.20			8.0
8/22/2023	6,500							240.5
	4,000	38-23-I-1	Lift Pump	Surface	0.20			8.0
	2,500	38-23-W-3	Well #5	Well	11.00	0.20		232.5
9/02/2023	5,000							146.5
	1,500	38-23-W-3	Well #5	Well	11.00	0.20		139.5
	3,500	38-23-I-1	Lift Pump	Surface	0.20			7.0
9/13/2023	4,500							145.5
	3,000	38-23-I-1	Lift Pump	Surface	0.20			6.0
	1,500	38-23-W-3	Well #5	Well	11.00	0.20		139.5
Total =	37,500							1,258.0

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	11,851	lbs
Phosphorus	1,456	lbs
Potassium	10,209	lbs

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
04/25/2023	1,200		0.00	158	31.7	149.0	1,574	316	1,484
		38-23-L-2	0.00	158	31.7	149.0			
03/15/2023	1,200		0.00	555	70.5	518.0	5,528	702	5,159
		38-23-L-1	0.00	555	70.5	518.0			
11/04/2022	1,200		0.00	440	44.0	358.0	4,382	438	3,566
		38-22-L-4	0.00	440	44.0	358.0			
Total =	3,600						11,484	1,456	10,209

Dairy Name: Jersey Creek Dairy

Page 13 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Triticale

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO3-N	NH4-N	TKN	
11/04/2022	3,800							353.4
	3,800	38-23-W-3	Well #5	Well	11.00	0.20		353.4
3/15/2023	3,500							7.0
	3,500	38-23-I-1	Lift Pump	Surface	0.20			7.0
4/25/2023	3,500							7.0
	3,500	38-23-I-1	Lift Pump	Surface	0.20			7.0
Total =	10,800							367.4

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Corn Silage

**Total Nutrients Applied To This Crop:**

Nitrogen	8,671	lbs
Phosphorus	867	lbs
Potassium	10,279	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
08/26/2023	1,200		0.00	433	43.5	516.0	4,313	433	5,139
		38-23-L-3	0.00	433	43.5	516.0			
08/09/2023	1,200		0.00	433	43.5	516.0	4,313	433	5,139
		38-23-L-3	0.00	433	43.5	516.0			
Total =	2,400						8,625	867	10,279

**Irrigation Applications:**

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
6/05/2023	4,850							9.7
	4,850	38-23-I-1	Lift Pump	Surface	0.20			9.7
7/15/2023	4,850							9.7
	4,850	38-23-I-1	Lift Pump	Surface	0.20			9.7
7/26/2023	4,000							8.0
	4,000	38-23-I-1	Lift Pump	Surface	0.20			8.0
8/09/2023	3,000							6.0
	3,000	38-23-I-1	Lift Pump	Surface	0.20			6.0
8/26/2023	2,500							5.0
	2,500	38-23-I-1	Lift Pump	Surface	0.20			5.0
9/05/2023	3,500							7.0
	3,500	38-23-I-1	Lift Pump	Surface	0.20			7.0
<b>Total =</b>	<b>22,700</b>							<b>45.4</b>

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Triticale

**Total Nutrients Applied To This Crop:**

Nitrogen	10,794	lbs
Phosphorus	1,228	lbs
Potassium	9,256	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
04/29/2023	800		0.00	555	70.5	518.0	3,685	468	3,440
		38-23-L-1	0.00	555	70.5	518.0			
03/20/2023	800		0.00	555	70.5	518.0	3,685	468	3,440
		38-23-L-1	0.00	555	70.5	518.0			
11/07/2022	800		0.00	440	44.0	358.0	2,922	292	2,377
		38-22-L-4	0.00	440	44.0	358.0			
Total =	2,400						10,292	1,228	9,256

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Triticale

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
11/07/2022	5,200							483.6
	5,200	38-23-W-3	Well #5	Well	11.00	0.20		483.6
3/20/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
4/29/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
Total =	14,200							501.6

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Corn Silage

**Total Nutrients Applied To This Crop:**

Nitrogen	2,507	lbs
Phosphorus	0	lbs
Potassium	0	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

**Irrigation Applications:**

Dairy Name: Jersey Creek Dairy

Page 19 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
6/05/2023	10,500							339.5
	7,000	38-23-I-1	Lift Pump	Surface	0.20			14.0
	3,500	38-23-W-3	Well #5	Well	11.00	0.20		325.5
7/13/2023	10,500							339.5
	3,500	38-23-W-3	Well #5	Well	11.00	0.20		325.5
	7,000	38-23-I-1	Lift Pump	Surface	0.20			14.0
7/26/2023	10,500							339.5
	7,000	38-23-I-1	Lift Pump	Surface	0.20			14.0
	3,500	38-23-W-3	Well #5	Well	11.00	0.20		325.5
8/07/2023	5,500							511.5
	5,500	38-23-W-3	Well #5	Well	11.00	0.20		511.5
8/23/2023	5,500							511.5
	5,500	38-23-W-3	Well #5	Well	11.00	0.20		511.5
9/04/2023	5,000							465.0
	5,000	38-23-W-3	Well #5	Well	11.00	0.20		465.0
<b>Total =</b>	<b>47,500</b>							<b>2,506.5</b>

Dairy Name: Jersey Creek Dairy

Page 20 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 07

Crop: Alfalfa

**Total Nutrients Applied To This Crop:**

Nitrogen	78	lbs
Phosphorus	0	lbs
Potassium	0	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

**Irrigation Applications:**

Dairy Name: Jersey Creek Dairy

Page 21 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 07

Crop: Alfalfa

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
4/15/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
5/17/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
6/14/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
7/16/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
8/10/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
9/07/2023	6,500							13.0
	6,500	38-23-I-1	Lift Pump	Surface	0.20			13.0
<b>Total =</b>	<b>39,000</b>							<b>78.0</b>

Dairy Name: Jersey Creek Dairy

Page 22 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 08

Crop: Alfalfa

**Total Nutrients Applied To This Crop:**

Nitrogen	54	lbs
Phosphorus	0	lbs
Potassium	0	lbs

**Commercial Fertilizer Applied To This Crop:**

Date	Total Pounds Applied		
	N	P	K

**Solid Manure Applications:**

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	0	0						0	0	0

**Wastewater Applications:**

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

**Irrigation Applications:**

Dairy Name: Jersey Creek Dairy

Page 23 of 23

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 08

Crop: Alfalfa

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO <sub>3</sub> -N	NH <sub>4</sub> -N	TKN	
4/17/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
5/23/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
6/21/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
7/20/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
8/14/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
9/11/2023	4,500							9.0
	4,500	38-23-I-1	Lift Pump	Surface	0.20			9.0
<b>Total =</b>	<b>27,000</b>							<b>54.0</b>

Dairy Name: Jersey Creek Dairy

Page 1 of 1

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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Attachment F

**Results of Record-Keeping Requirements  
Weather Conditions During Applications**

(Ref MRP Annual Report, General Section, Item 17, subitem B.3 e)

Application Weather Conditions

Field	Date	Type of Application	Weather Conditions		
			24 hr Prior	During	24 hr After
01	05/24/2023	Process Wastewater	Nominal	Nominal	Nominal
01	06/03/2023	Process Wastewater	Nominal	Nominal	Nominal
01	06/14/2023	Process Wastewater	Nominal	Nominal	Nominal
01	07/02/2023	Process Wastewater	Nominal	Nominal	Nominal
01	07/17/2023	Process Wastewater	Nominal	Nominal	Nominal
02	05/15/2023	Manure	Nominal	Nominal	Nominal
02	03/01/2023	Process Wastewater	Nominal	Nominal	Nominal
03	05/30/2023	Manure	Nominal	Nominal	Nominal
03	11/28/2022	Process Wastewater	Nominal	Nominal	Nominal
04	05/30/2023	Manure	Nominal	Nominal	Nominal
05	11/04/2022	Process Wastewater	Nominal	Nominal	Nominal
05	03/15/2023	Process Wastewater	Nominal	Nominal	Nominal
05	04/25/2023	Process Wastewater	Nominal	Nominal	Nominal
05	08/09/2023	Process Wastewater	Nominal	Nominal	Nominal
05	08/26/2023	Process Wastewater	Nominal	Nominal	Nominal
06	11/07/2022	Process Wastewater	Nominal	Nominal	Nominal
06	03/20/2023	Process Wastewater	Nominal	Nominal	Nominal
06	04/29/2023	Process Wastewater	Nominal	Nominal	Nominal

Note: Nominal applies to any weather condition that is not Precipitation or Standing Water when the application occurred.

Dairy Name: Jersey Creek Dairy

Page 1 of 2

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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Attachment G

**Support for Estimated Solid Manure & Wastewater and Nutrients Transferred Offsite**

(Ref MRP Annual Report, General Section, Item 6)

Solid Manure Transfers

Date Of Transfer	Total Manure (tons)	Total Dry Manure (tons)	Sample ID	Moisture %	Total (% dry basis)			Total Pounds Transferred		
					N	P	K	N	P	K
Grand Total / Average	0							0	0	0

Dairy Name: Jersey Creek Dairy

Page 2 of 2

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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Wastewater Transfers

Date Of Transfer	Source Location	Location Aerated?	Total Gal (1,000 gal)	Sample ID	Conc. From Sample Analysis (mg/l)				EC (umhos/cm)	Total lbs Transferred			
					NO3-N	TKN	P	K		N	P	K	Salt
Grand Totals / Averages			0							0	0	0	0

Dairy Name: Jersey Creek Dairy

Page 1 of 8

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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Attachment H

**Tabulated Analytical Sample Data**

(Ref MRP Annual Report, General Section, Item 16)

Manure Samples

Sample Date	Source Location	Sample ID	Moisture %	Total (% Dry Basis)		
				N	P	K
06/30/2023	Corral	38-23-M-1	52.99 0.01	1.55 0.10	0.60 0.01	2.55 0.01
11/14/2023	Corral	38-23-M-2	37.05 0.01	2.07 0.10	0.59 0.01	2.64 0.01
Average			45.02	1.81	0.60	2.60

Manure General Mineral Analysis

Required Once Every Two Years

Last Analysis Date: 4/13/2022

Sample Date	Source Location	Sample ID	%Na	%Ca	%Mg	%S	%Cl	%ASH

Dairy Name: Jersey Creek Dairy

Page 2 of 8

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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Wastewater Samples

(NO<sub>3</sub>-N required only if lagoon is aerated)

Sample Date	Source Location	Sample ID	Location Aerated?	Total (mg/l)						EC (umhos/cm)
				NO <sub>3</sub> - N	NH <sub>4</sub> - N	TKN	P	K	TDS	
02/14/2023	Storage 1	38-23-L-1	N	0.10	242.0 0.5	555 1	70.5 0.1	518.0 0.5	2,850 10	6,710 10.00
05/04/2023	Storage 1	38-23-L-2	N	0.10	107.0 0.5	158 1	31.7 0.1	149.0 0.5	1,640 10	2,440 10.00
08/04/2023	Storage 1	38-23-L-3	N	0.10	330.0 0.5	433 1	43.5 0.1	516.0 0.5	3,180 10	6,440 10.00
11/14/2023	Storage 1	38-23-L-4	N	0.10	321.0 0.5	433 1	61.5 0.1	445.0 0.5	2,930 10	5,570 10.00
<b>Averages</b>					<b>250.0</b>	<b>395</b>	<b>51.8</b>	<b>407.0</b>	<b>2,650</b>	<b>5,290</b>

Wastewater General Minerals Analysis

Required Once Every Two Years

Last Analysis Date: 3/9/2022

Sample Date	Source Location	Sample ID	CO <sub>3</sub> (mg/l)	HCO <sub>3</sub> (mg/l)	Cl (mg/l)	SO <sub>4</sub> -S (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)

Dairy Name: Jersey Creek Dairy

Page 3 of 8

Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Water Supply Samples

(NH4-N analyzed only if Field Test is positive)

Sample Date	Source ID	Source Type	Status	Sample ID	Condition	Last Gen Min Analysis	EC (umhos/cm)	NO <sub>3</sub> -N (mg/l)	NH <sub>4</sub> -N (mg/l)	TKN (mg/l)	Notes
5/04/2023	Lift Pump	Surface	Active	38-23-I-1	Wet		68 10.00	0.2 0.10			
5/04/2023	DB1	Well	Active	38-23-W-1	Wet	5/04/2023	789 10.00	14.4 0.10	0.50		
5/04/2023	DB2	Well	Active	38-23-W-2	Wet	5/04/2023	1,280 10.00	26.9 0.10	0.50		
	Well #1	Well	Active			7/24/2013					
	Well #2	Well	InActive			6/18/2013					
	Well #3	Well	Active			5/30/2018					
	Well #4	Well	Active			5/30/2018					
8/04/2023	Well #5	Well	Active	38-23-W-3	Wet	8/04/2023	493 10.00	11.0 0.10	0.20 0.50		

UTS - Unable To Sample (well needing repair, power disconnected, no ditch water received, etc.)

**Dairy Name:** Jersey Creek Dairy

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**Dairy Address:** 14857 5th Ave

Hanford, CA 93230

**Report Period:** Jan 01 through Dec 31, 2023

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Water Supply General Minerals Analysis

Required Every Five Years (20% Anually Allowed)

Sample Date	Source ID	Source Type	Sample ID	TDS (mg/l)	CO <sub>3</sub> (mg/l)	HCO <sub>3</sub> (mg/l)	Cl (mg/l)	SO <sub>4-S</sub> (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)
5/04/2023	DB1	Well	38-23-W-1	430.00 10.00	< 0.00 1.00	150.00 5.00	31.70 0.20	71.40 0.50	46.20 0.10	3.10 0.10	91.00 1.00
5/04/2023	DB2	Well	38-23-W-2	717.00 10.00	< 0.00 1.00	318.00 5.00	44.70 0.20	87.00 0.50	140.00 0.10	7.10 0.10	103.00 1.00
8/04/2023	Well #5	Well	38-23-W-3	303.00 10.00	0.00 1.00	61.60 5.00	32.40 0.10	69.50 0.20	26.50 0.10	0.80 0.10	69.00 1.00

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

### Soil Samples

Soluable Phosphorus (PO<sub>4</sub>-P) required once every five years (20% annually allowed)

Remainder of soil analysis is recommended but not required

Sample Date	Field ID	Sample Location	Sample ID	Last PO <sub>4</sub> -P Analysis	Depth 0 to 1 ft					Depth 1 to 2 ft
					NO <sub>3</sub> -N (mg/kg)	PO <sub>4</sub> -P (mg/kg)	K (AA) (mg/kg)	EC (dS/m)	%OM	
8/04/2023	01		38-23-S-7	8/04/2023	31	39.0	50	1.45		14
5/05/2023	02		38-23-S-1	9/25/2023	1					6
5/30/2023	02		38-23-S-2	9/25/2023	21					6
9/25/2023	02		38-23-S-8	9/25/2023	44	32.0	438	1.20		28
5/30/2023	03		38-23-S-3	11/06/2023	3					2
11/06/2023	03		38-23-S-9	11/06/2023	36	57.0	621	1.11		9
5/30/2023	04		38-23-S-4	11/06/2023	4					2
11/06/2023	04		38-23-S-10	11/06/2023	7	24.0	267	0.54		3
5/30/2023	05		38-23-S-5	11/06/2023	32					9
11/06/2023	05		38-23-S-11	11/06/2023	50	16.0	274	1.19		20
5/30/2023	06		38-23-S-6	11/06/2023	7					3
11/06/2023	06		38-23-S-12	11/06/2023	23	12.0	197	0.74		15
	07									
	08			10/18/2021						

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Plant Tissue Samples

Harvest

Sample Date	Field ID	Crop	Sample Location	Sample ID	Volume % Moisture	Total (% Dry Basis)			
						N	P	K	ASH
08/24/2023	02	Triticale		38-22-P-17	70.27 0.01	2.01 0.100	0.42 0.002	2.59 0.002	11.70 0.01
11/06/2023	02	Corn Silage	S1	38-23-P-10	69.41 0.01	1.42 0.100	0.34 0.002	1.79 0.002	7.30 0.01
11/06/2023	02	Corn Silage	S2	38-23-P-11	71.46 0.01	1.38 0.100	0.26 0.002	1.72 0.002	7.10 0.01
08/24/2023	03	Triticale		38-23-P-4	68.09 0.01	1.90 0.100	0.38 0.002	2.46 0.002	11.10 0.01
11/06/2023	03	Corn Silage		38-23-P-12	61.95 0.01	1.04 0.100	0.29 0.002	1.10 0.002	6.60 0.01
08/24/2023	04	Triticale		38-23-P-5	70.30 0.01	2.11 0.100	0.41 0.002	2.56 0.002	10.60 0.01
11/06/2023	04	Corn Silage		38-23-P-13	63.88 0.01	1.08 0.100	0.20 0.002	0.92 0.002	5.30 0.01
08/24/2023	05	Triticale		38-23-P-6	70.33 0.01	2.36 0.100	0.50 0.002	2.91 0.002	13.30 0.01
11/06/2023	05	Corn Silage		38-23-P-14	72.71 0.01	1.20 0.100	0.20 0.002	1.59 0.002	6.80 0.01
08/24/2023	06	Triticale		38-23-P-7	72.33 0.01	1.98 0.100	0.47 0.002	2.92 0.002	12.60 0.01
11/06/2023	06	Corn Silage		38-23-P-15	68.54 0.01	1.32 0.100	0.26 0.002	1.28 0.002	6.20 0.01
05/15/2023	07	Alfalfa		38-23-P-1	28.77 0.01	4.32 0.100	0.35 0.002	1.95 0.002	9.40 0.01
10/10/2023	07	Alfalfa		38-23-P-8	5.36 0.01	4.19 0.100	0.23 0.002	1.24 0.002	11.40 0.01
12/01/2023	07	Alfalfa		38-23-P-16	63.22 0.01	3.26 0.100	0.17 0.002	0.66 0.002	10.80 0.01

Notes: Laboratory detection limit listed below each result.

Attachment H

Dairy Name: Jersey Creek Dairy

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Dairy Address: 14857 5th Ave

Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Sample Date	Field ID	Crop	Sample Location	Sample ID	Volume % Moisture	Total (% Dry Basis)			
						N	P	K	ASH
05/15/2023	08	Alfalfa		38-23-P-2	10.46 0.01	2.97 0.100	0.16 0.002	0.98 0.002	7.10 0.01
10/10/2023	08	Alfalfa		38-23-P-9	7.89 0.01	2.12 0.100	0.15 0.002	0.88 0.002	10.20 0.01
12/01/2023	08	Alfalfa		38-23-P-17	70.87 0.01	3.00 0.100	0.18 0.002	0.64 0.002	12.90 0.01

**Dairy Name:** Jersey Creek Dairy

Page 8 of 8

**Dairy Address:** 14857 5th Ave

Hanford, CA 93230

**Report Period:** Jan 01 through Dec 31, 2023

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**Plant Tissue Samples**

Mid-Season - Optional analysis, required only if fertilizing in excess of 1.4 nitrogen balance

Sample Date	Field ID	Sample Location	Description	Sample ID	Leaf %N (dry)	Grain Stem NO <sub>3</sub> -N (mg/kg)



Jersey Creek Dairy  
7871 Houston Ave  
Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 09:12

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E0612-01	Lakeside ID	Ag Water	Moises Barajas		05/04/2023 12:54

Default Cooler      Temperature on Receipt °C: -1.1  
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

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Jersey Creek Dairy  
7871 Houston Ave  
Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 09:12

### Sample Results

**Sample: Lakeside ID**  
**23E0612-01 (Water)**

Sampled: 5/4/2023 12:54  
Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	<b>0.07</b>	mmhos/cm	0.01	1		05/09/23 11:22	SM 2510 B		BEE0210
Electrical Conductivity umhos	<b>67.5</b>	umhos/cm	10.0	1		05/09/23 11:22	SM 2510 B		BEE0210
Nitrate Nitrogen as NO3N	<b>0.2</b>	mg/L	0.1	1	10	05/05/23 17:29	EPA 300.0		BEE0223
pH	<b>7.7</b>	units	1.0	1		05/09/23 11:22	SM 4500-H+	H	BEE0210
Total Filterable Solids (TDS)	<b>56.7</b>	mg/L	10.0	1		05/17/23 12:52	SM 2540 C		BEE0185
Temperature	<b>25.0</b>	°C	0.0	1		05/09/23 11:22	SM 2510 B		BEE0210

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Jersey Creek Dairy  
7871 Houston Ave  
Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 09:12

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEE0185</b>									
<b>Blank (BEE0185-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 5/4/2023 Analyzed: 5/17/2023				
<b>Duplicate (BEE0185-DUP1)</b>		<b>Source: 23E0435-01</b>			Prepared: 5/4/2023 Analyzed: 5/17/2023				
Total Filterable Solids (TDS)	4920	10.0	mg/L		5040			2.41	5
<b>Duplicate (BEE0185-DUP2)</b>		<b>Source: 23E0616-01</b>			Prepared: 5/4/2023 Analyzed: 5/17/2023				
Total Filterable Solids (TDS)	1620	10.0	mg/L		1640			1.23	5
<b>Reference (BEE0185-SRM1)</b>					Prepared: 5/4/2023 Analyzed: 5/17/2023				
Total Filterable Solids (TDS)	333		mg/L	325.0		103	90-110		

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Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 09:12

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0210</b>									
<b>Blank (BEE0210-BLK1)</b>									
Prepared & Analyzed: 5/9/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.5	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEE0210-BLK2)</b>									
Prepared & Analyzed: 5/9/2023									
pH	5.6	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEE0210-BLK3)</b>									
Prepared & Analyzed: 5/9/2023									
pH	5.6	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Duplicate (BEE0210-DUP1)</b>									
Source: 23E0613-01 Prepared & Analyzed: 5/9/2023									
pH	7.7	1.0	units		7.7		0.130	10	
Electrical Conductivity	0.06	0.01	mmhos/cm		0.06		0.471	10	
Electrical Conductivity umhos	63.6	10.0	umhos/cm		63.9		0.471	10	
<b>Duplicate (BEE0210-DUP2)</b>									
Source: 23E0763-01 Prepared & Analyzed: 5/9/2023									
pH	7.5	1.0	units		7.5		0.134	10	
Electrical Conductivity	0.05	0.01	mmhos/cm		0.05		0.00	10	
Electrical Conductivity umhos	53.4	10.0	umhos/cm		53.4		0.00	10	
<b>Reference (BEE0210-SRM1)</b>									
Prepared & Analyzed: 5/9/2023									
Electrical Conductivity	565		umhos/cm		538.0	105	90-110		
<b>Reference (BEE0210-SRM2)</b>									
Prepared & Analyzed: 5/9/2023									
pH	4.0		units		7.790	51.7	.7163-101.28		
<b>Reference (BEE0210-SRM3)</b>									
Prepared & Analyzed: 5/9/2023									
Electrical Conductivity	1050		umhos/cm		1000	105	90-110		
Electrical Conductivity umhos	1050		umhos/cm		1000	105	90-110		
<b>Reference (BEE0210-SRM4)</b>									
Prepared & Analyzed: 5/9/2023									
Electrical Conductivity	1050		umhos/cm		1000	105	90-110		
Electrical Conductivity umhos	1050		umhos/cm		1000	105	90-110		
<b>Reference (BEE0210-SRM5)</b>									
Prepared & Analyzed: 5/9/2023									
Electrical Conductivity	1060		umhos/cm		1000	106	90-110		

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Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 09:12

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0210 (Continued)</b>									
<b>Reference (BEE0210-SRM5)</b>									
Electrical Conductivity umhos	1060		umhos/cm	1000	106	Prepared & Analyzed: 5/9/2023	90-110		
<b>Reference (BEE0210-SRM6)</b>									
pH	4.0		units	4.000	100	Prepared & Analyzed: 5/9/2023	97.5-102.5		
<b>Reference (BEE0210-SRM7)</b>									
pH	4.0		units	4.000	101	Prepared & Analyzed: 5/9/2023	97.5-102.5		
<b>Reference (BEE0210-SRM8)</b>									
pH	7.8		units	4.000	196	Prepared & Analyzed: 5/9/2023	97.5-102.5		

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Jersey Creek Dairy  
7871 Houston Ave  
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Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 09:12

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0223</b>									
<b>Blank (BEE0223-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/5/2023				
<b>Blank (BEE0223-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/5/2023				
<b>LCS (BEE0223-BS1)</b>									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	101	90-110			
<b>Duplicate (BEE0223-DUP1)</b>									
Nitrate Nitrogen as NO3N	0.8	0.1	mg/L	0.8			0.615	10	
<b>Matrix Spike (BEE0223-MS1)</b>									
Nitrate Nitrogen as NO3N	5.9	0.1	mg/L	5.000	0.8	102	90-110		
<b>Reference (BEE0223-SRM1)</b>									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			
<b>Reference (BEE0223-SRM2)</b>									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00	102	90-110			

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05/05/23 07:00

23E0612

*[Signature]***WATER WORK REQUEST**

Bill To:	Acct No.	Cons.
	19140	08

Purchase Order No. \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client **Jersey Creek Dairy**  
 Address 7871 Houston Ave  
 City, State, Zip Hanford, CA 93230  
 Email: jfragoso@jlf.farm  
 cfragoso@jlf.farm; jvanderschuur@ppeng.com;

Copy to: sbommelje@ppeng.com

Requested by/Cell: Jared Fragoso 381-5229

Facility: 14857 5th Ave Hanford

Date sampled 5/4/2023

Sampled by Moises Barajas

QA/QC Document     Copy of Chain     RWQCB

**DESCRIPTION OF SAMPLES**

1. Lakeside ID Sampled From: \_\_\_\_\_
2. Sampled From: \_\_\_\_\_
3. Sampled From: \_\_\_\_\_
4. Sampled From: \_\_\_\_\_
5. Sampled From: \_\_\_\_\_
6. Sampled From: \_\_\_\_\_
7. Sampled From: \_\_\_\_\_
8. Sampled From: \_\_\_\_\_
9. Sampled From: \_\_\_\_\_
10. Sampled From: \_\_\_\_\_

**DELLAVALLE LABORATORY, INC.**

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 1 No. Bottles \_\_\_\_\_

**Water Type:**

<input type="checkbox"/> Ag Water	<input type="checkbox"/> Drinking	<input type="checkbox"/> Wastewater
<input checked="" type="checkbox"/> Supply Water	<input type="checkbox"/> Ground Water	<input type="checkbox"/> Mon. Well
	<input type="checkbox"/> Other	

**Analysis and Bottles Required: (Please Indicate Analysis)**

- DWW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N Field Test)  
 (1) 1L plastic, unpreserved (white)
- DWW2: (DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)  
 (1) 1L plastic, unpreserved (white)
- DCW1: (EC, NO<sub>3</sub>-N, TDS)  
 (1) 1L plastic, unpreserved (white)
- DPW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK)  
 (1) 1L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl)  
 (1) 1L plastic, unpreserved (white)

 Other

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
5/4/2023	12:54 PM	_____	-11
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second				
Third				
Fourth	<i>914</i>	<i>04/05/23</i>		

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 all costs and, if there should be action against me for this breach, reasonable attorney fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorney's fees of Dellavalle Laboratory.

**Invoicing Information:****Contract 2023**

Sampling Hrs	Miles	Consulting	\$ _____ In
			\$ _____ Out
Amt Paid	Rec By	Check No.	Date

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

ct:update 2020

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" 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 type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>		Refrigerant: Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>																																																																																																	
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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																																																																																								
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)																																																																																																			
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																		
	250 mL unpreserved (White) Plastic																																																																																																		
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																		
	* pH Value																																																																																																		
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic																																																																																																		
	* pH Value																																																																																																		
	500 mL unpreserved (White) Plastic																																																																																																		
Special	1 L unpreserved (White) Plastic																																																																																																		
	1 L unpreserved (BOD) (Purple) Plastic																																																																																																		
	500mL unpreserved (White) Glass																																																																																																		
PO4-P Kit																																																																																																			
Other:																																																																																																			
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)																																																																																																			
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																		
	250 mL unpreserved (White) Plastic																																																																																																		
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																		
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic																																																																																																		
	500 mL HNO <sub>3</sub> (Red)																																																																																																		
	1 L unpreserved (White) Plastic																																																																																																		
	1 L unpreserved (BOD) (Purple) Plastic																																																																																																		
VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																		
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)																																																																																																		
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)																																																																																																		
	40mL AG VOA unpreserved (White) (Set of 3)																																																																																																		
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																		
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)																																																																																																		
	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																		
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																		
	250 mL AG unpreserved (White)																																																																																																		
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)																																																																																																		
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																		
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA																																																																																																		
	500 mL glass unpreserved (White)																																																																																																		
	500 mL AG HCl (Blue)																																																																																																		
	1 L AG unpreserved (White)																																																																																																		
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)																																																																																																		
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																		
Special	1 L AG HCl (Blue)											Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>											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:										
	1 L AG HCl (Blue)																																																																																																		
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>																																																																																																		
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	Chlorite/Bromate - 250 mL AG with EDA																																																																																																		
HAA5 - 250mL AG Ammonium Chlorite																																																																																																			
DO KIT																																																																																																			
Other:																																																																																																			



05/05/23 07:00

23E0612

Copy to \_\_\_\_\_  
cfragoso@jlfarm.jvanderschuur@ppeng.com  
sbommelje@ppeng.com

DW2 (DW1 plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)  
*(1) L plastic, unpreserved (white)*

---

Requested by/Cell Jared Frugoso 381-5229

Facility 14857 5th Ave Hansford

Date sampled 3-9-13

Impressions Exercise Notes

QA/QC Document

Lakeside ID	Sampled From
1	Sampled From
2	Sampled From
3	Sampled From
4	Sampled From
5	Sampled From
6	Sampled From
7	Sampled From
8	Sampled From
9	Sampled From
10	Sampled From

WIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Mark Bick</u>	One	5-4-23	2:31PM 5-4-23
Second				
Third				
Fourth				

Information

Shoppin

05/05/23 07:00 2023-05-05

11

1

Sample received in cooler with ice



Jersey Creek Dairy  
7871 Houston Ave  
Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E0614-01	Well #DB1 (WS)	Ag Water	Moises Barajas		05/04/2023 13:09
23E0614-02	Well #DB2 (WS)	Ag Water	Moises Barajas		05/04/2023 13:19

Default Cooler      Temperature on Receipt °C: -0.6  
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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Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

### Sample Results

**Sample: Well #DB1 (WS)**  
**23E0614-01 (Water)**

Sampled: 5/4/2023 13:09

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO <sub>3</sub>	<b>150</b>	mg/L	10.0	1		05/17/23 12:07	SM 2320 B		BEE0227
Calcium	<b>46.2</b>	mg/L	0.1	1		05/10/23 13:25	EPA 200.7		BEE0209
Chloride	<b>31.7</b>	mg/L	0.2	1	250	05/05/23 18:48	EPA 300.0		BEE0222
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		05/17/23 12:07	SM 2320 B		BEE0227
Electrical Conductivity	<b>0.79</b>	mmhos/cm	0.01	1		05/17/23 12:07	SM 2510 B		BEE0227
Electrical Conductivity umhos	<b>789</b>	umhos/cm	10.0	1		05/17/23 12:07	SM 2510 B		BEE0227
Bicarbonate as CaCO <sub>3</sub>	<b>150</b>	mg/L	5.00	1		05/17/23 12:07	SM 2320 B		BEE0227
Potassium	<b>0.533</b>	mg/L	0.500	1		05/10/23 13:25	EPA 200.7		BEE0209
Magnesium	<b>3.1</b>	mg/L	0.1	1		05/10/23 13:25	EPA 200.7		BEE0209
Sodium	<b>91</b>	mg/L	1	1		05/10/23 13:25	EPA 200.7		BEE0209
Ammonia (as N)	*	mg/L	0.00	1		05/04/23 13:09	Field		BEE0691
Nitrate Nitrogen as NO <sub>3</sub> N	<b>14.4</b>	mg/L	0.1	1	10	05/05/23 18:48	EPA 300.0		BEE0222
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		05/17/23 12:07	SM 2320 B		BEE0227
pH	<b>7.8</b>	units	1.0	1		05/17/23 12:07	SM 4500-H+	H	BEE0227
Sulfate (SO <sub>4</sub> )	<b>71.4</b>	mg/L	0.5	1	250	05/05/23 18:48	EPA 300.0		BEE0222
Total Filterable Solids (TDS)	<b>430</b>	mg/L	10.0	1		05/17/23 12:52	SM 2540 C		BEE0185

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Jersey Creek Dairy  
7871 Houston Ave  
Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

**Sample Results**  
**(Continued)**

**Sample: Well #DB2 (WS)  
23E0614-02 (Water)**

Sampled: 5/4/2023 13:19

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO<sub>3</sub></b>	<b>318</b>	mg/L	10.0	1		05/17/23 12:12	SM 2320 B		BEE0227
<b>Calcium</b>	<b>140</b>	mg/L	0.1	1		05/10/23 13:26	EPA 200.7		BEE0209
<b>Chloride</b>	<b>44.7</b>	mg/L	0.2	1	250	05/05/23 19:08	EPA 300.0		BEE0222
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		05/17/23 12:12	SM 2320 B		BEE0227
<b>Electrical Conductivity</b>	<b>1.28</b>	mmhos/cm	0.01	1		05/17/23 12:12	SM 2510 B		BEE0227
<b>Electrical Conductivity umhos</b>	<b>1280</b>	umhos/cm	10.0	1		05/17/23 12:12	SM 2510 B		BEE0227
<b>Bicarbonate as CaCO<sub>3</sub></b>	<b>318</b>	mg/L	5.00	1		05/17/23 12:12	SM 2320 B		BEE0227
Potassium	ND	mg/L	0.500	1		05/10/23 13:26	EPA 200.7		BEE0209
<b>Magnesium</b>	<b>7.1</b>	mg/L	0.1	1		05/10/23 13:26	EPA 200.7		BEE0209
<b>Sodium</b>	<b>103</b>	mg/L	1	1		05/10/23 13:26	EPA 200.7		BEE0209
Ammonia (as N)	*	mg/L	0.00	1		05/04/23 13:19	Field		BEE0691
<b>Nitrate Nitrogen as NO<sub>3</sub>N</b>	<b>26.9</b>	mg/L	0.1	1	10	05/05/23 19:08	EPA 300.0		BEE0222
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		05/17/23 12:12	SM 2320 B		BEE0227
<b>pH</b>	<b>7.3</b>	units	1.0	1		05/17/23 12:12	SM 4500-H+	H	BEE0227
<b>Sulfate (SO<sub>4</sub>)</b>	<b>87.0</b>	mg/L	0.5	1	250	05/05/23 19:08	EPA 300.0		BEE0222
<b>Total Filterable Solids (TDS)</b>	<b>717</b>	mg/L	10.0	1		05/17/23 12:52	SM 2540 C		BEE0185

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Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEE0185</b>									
<b>Blank (BEE0185-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 5/4/2023 Analyzed: 5/17/2023				
<b>Duplicate (BEE0185-DUP1)</b>		<b>Source: 23E0435-01</b>			Prepared: 5/4/2023 Analyzed: 5/17/2023				
Total Filterable Solids (TDS)	4920	10.0	mg/L		5040			2.41	5
<b>Duplicate (BEE0185-DUP2)</b>		<b>Source: 23E0616-01</b>			Prepared: 5/4/2023 Analyzed: 5/17/2023				
Total Filterable Solids (TDS)	1620	10.0	mg/L		1640			1.23	5
<b>Reference (BEE0185-SRM1)</b>					Prepared: 5/4/2023 Analyzed: 5/17/2023				
Total Filterable Solids (TDS)	333		mg/L	325.0		103	90-110		

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Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0209</b>									
<b>Blank (BEE0209-BLK1)</b>									
Prepared: 5/5/2023 Analyzed: 5/10/2023									
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEE0209-BLK2)</b>									
Prepared: 5/5/2023 Analyzed: 5/10/2023									
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEE0209-BS1)</b>									
Prepared: 5/5/2023 Analyzed: 5/10/2023									
Sodium	39	1	mg/L	35.71	109	90-110			
Calcium	38.8	0.1	mg/L	35.71	109	90-110			
Potassium	38.9	0.500	mg/L	35.71	109	90-110			
Magnesium	39.2	0.1	mg/L	35.71	110	90-110			
<b>LCS (BEE0209-BS2)</b>									
Prepared: 5/9/2023 Analyzed: 5/10/2023									
Sodium	39	1	mg/L	35.71	109	90-110			
Potassium	39.1	0.500	mg/L	35.71	110	90-110			
Calcium	38.7	0.1	mg/L	35.71	108	90-110			
Magnesium	39.4	0.1	mg/L	35.71	110	90-110			
<b>Duplicate (BEE0209-DUP1)</b>									
<b>Source: 23E0527-01</b>									
Prepared: 5/5/2023 Analyzed: 5/10/2023									
Potassium	12.2	0.500	mg/L	11.6			4.86	15	
Calcium	52.7	0.1	mg/L	48.9			7.42	15	
Sodium	106	1	mg/L	102			3.66	15	
Magnesium	1.6	0.1	mg/L	1.5			5.65	15	
<b>Matrix Spike (BEE0209-MS1)</b>									
<b>Source: 23E0527-01</b>									
Prepared: 5/9/2023 Analyzed: 5/10/2023									
Sodium	143	1	mg/L	35.71	102	115	90-110		
Calcium	87.2	0.1	mg/L	35.71	48.9	107	90-110		
Potassium	50.1	0.500	mg/L	35.71	11.6	108	90-110		
Magnesium	39.8	0.1	mg/L	35.71	1.5	107	90-110		
<b>Matrix Spike (BEE0209-MS2)</b>									
<b>Source: 23E0765-01</b>									
Prepared: 5/9/2023 Analyzed: 5/10/2023									
Sodium	69	1	mg/L	35.71	30	109	90-110		
Potassium	42.0	0.500	mg/L	35.71	2.87	110	90-110		
Calcium	108	0.1	mg/L	35.71	69.1	109	90-110		
Magnesium	59.8	0.1	mg/L	35.71	20.2	111	90-110		
<b>Reference (BEE0209-SRM2)</b>									
Prepared: 5/5/2023 Analyzed: 5/10/2023									
Sodium	96		mg/L	91.50		105	90-110		

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Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0209 (Continued)</b>									
<b>Reference (BEE0209-SRM2)</b>									
Potassium	22.9		mg/L	21.90		105	90-110		
<b>Reference (BEE0209-SRM3)</b>									
Calcium	80.6		mg/L	79.00		102	90-110		
Magnesium	33.6		mg/L	30.60		110	90-110		

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Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0222</b>									
<b>Blank (BEE0222-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 5/5/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>Blank (BEE0222-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 5/5/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
<b>LCS (BEE0222-BS1)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 5/5/2023									
Nitrate Nitrogen as NO3N 5.1 0.1 mg/L									
Sulfate (SO4) 4.7 0.5 mg/L									
<b>Duplicate (BEE0222-DUP1)</b>									
Chloride 31.8 0.2 mg/L Prepared & Analyzed: 5/5/2023									
Nitrate Nitrogen as NO3N 14.4 0.1 mg/L									
Sulfate (SO4) 71.4 0.5 mg/L									
<b>Matrix Spike (BEE0222-MS1)</b>									
Chloride 36.6 0.2 mg/L Prepared & Analyzed: 5/5/2023									
Nitrate Nitrogen as NO3N 19.5 0.1 mg/L									
Sulfate (SO4) 75.9 0.5 mg/L									
<b>Reference (BEE0222-SRM1)</b>									
Chloride 12.9 mg/L Prepared & Analyzed: 5/5/2023									
Nitrate Nitrogen as NO3N 10.3 mg/L									
Sulfate (SO4) 10.1 mg/L									
<b>Reference (BEE0222-SRM2)</b>									
Chloride 12.9 mg/L Prepared & Analyzed: 5/6/2023									
Nitrate Nitrogen as NO3N 10.4 mg/L									
Sulfate (SO4) 10.2 mg/L									

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Account# 00-0019140  
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Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0227</b>									
<b>Blank (BEE0227-BLK1)</b>									
Prepared & Analyzed: 5/17/2023									
Carbonate as CaCO3	ND	1	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.5	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO3	ND	10.0	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEE0227-BLK2)</b>									
Prepared & Analyzed: 5/17/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO3	ND	10.0	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
pH	5.6	1.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Blank (BEE0227-BLK3)</b>									
Prepared & Analyzed: 5/17/2023									
Alkalinity as CaCO3	ND	10.0	mg/L						
pH	5.6	1.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEE0227-DUP1)</b>									
<b>Source: 23E0614-02</b>									
Prepared & Analyzed: 5/17/2023									
Electrical Conductivity	1.16	0.01	mmhos/cm		1.28		9.75	10	
Carbonate as CaCO3	ND	1	mg/L		ND				10
Alkalinity as CaCO3	329	10.0	mg/L		318		3.11	10	
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
pH	7.3	1.0	units		7.3		0.823	10	
Electrical Conductivity umhos	1160	10.0	umhos/cm		1280		9.75	10	
<b>Duplicate (BEE0227-DUP2)</b>									
<b>Source: 23E0742-03</b>									
Prepared: 5/5/2023 Analyzed: 5/17/2023									
Carbonate as CaCO3	ND	1	mg/L		ND				10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
pH	8.0	1.0	units		8.0		0.375	10	
Electrical Conductivity	0.27	0.01	mmhos/cm		0.27		1.60	10	
Alkalinity as CaCO3	101	10.0	mg/L		99.5		1.84	10	
Electrical Conductivity umhos	267	10.0	umhos/cm		271		1.60	10	
<b>Reference (BEE0227-SRM1)</b>									
Prepared: 5/5/2023 Analyzed: 5/17/2023									

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Ranch: 14857 5th Ave Hanford

Received: 05/05/2023 7:00  
Reported: 05/18/2023 11:10

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEE0227 (Continued)</b>									
<b>Reference (BEE0227-SRM1)</b>									
Alkalinity as CaCO <sub>3</sub> 40.6      mg/L      40.60      100      90-110									
Electrical Conductivity      548      umhos/cm      538.0      102      90-110									
<b>Reference (BEE0227-SRM2)</b>									
Electrical Conductivity      558      umhos/cm      538.0      104      90-110									
Alkalinity as CaCO <sub>3</sub> 42.1      mg/L      40.60      104      90-110									
<b>Reference (BEE0227-SRM3)</b>									
Electrical Conductivity      557      umhos/cm      538.0      103      90-110									
Alkalinity as CaCO <sub>3</sub> 41.7      mg/L      40.60      103      90-110									
<b>Reference (BEE0227-SRM4)</b>									
pH	4.1		units	4.000		102	97.5-102.5		
<b>Reference (BEE0227-SRM5)</b>									
pH	4.0		units	4.000		101	97.5-102.5		
<b>Reference (BEE0227-SRM6)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEE0227-SRM7)</b>									
pH	9.3		units	9.450		98.7	68766-101.3:		

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05/05/23 07:00

23E0614

**WATER WORK REQUEST**

Bill To: Acct No 19140 Cons 08

Purchase Order No. \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client **Jersey Creek Dairy**  
 Address 7871 Houston Ave  
 City, State, Zip Hanford, CA 93230  
 Email: jfragoso@jlf.farm

Copy to: cfragoso@jlf.farm; jvanderschuur@ppeng.com;  
 sbommelje@ppeng.com

Requested by/Cell: Jared Fragoso 381-5229

Facility: 14857 5th Ave Hanford

Date sampled **5-4-23**

Sampled by **Miles Bommelje**

QA/QC Document  Copy of Chain  RWQCB

**DESCRIPTION OF SAMPLES**

1.	Well #DB1	Sampled From: <b>WS</b>
2.	Well #DB2	Sampled From: <b>WS</b>
3.	Well #3	Sampled From: <b>NOT RUNNABLE</b>
4.	Well #4	Sampled From: <b>NOT RUNNABLE</b>
5.	Well #5	Sampled From: <b>NOT RUNNABLE</b>
6.		Sampled From:
7.		Sampled From:
8.		Sampled From:
9.		Sampled From:
10.		Sampled From:

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<b>Miles Bommelje</b>	<b>ON</b>	<b>5-4-23 1:09pm</b>	<b>2:17pm 5-4-23</b>
Second				
Third				
Fourth	<b>JLI</b>	<b>55 07/00</b>		

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 all costs and, if there should be action against me for this breach, reasonable attorney fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a dated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the product or services of DellaValle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of DellaValle Laboratory.

**Invoicing Information:****Contract 2023**

Sampling Hrs	Miles	Consulting	\$ <input type="text"/> In
			\$ <input type="text"/> Out
Amt Paid	Rec By	Check No.	Date

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

cit update 2020

**DELLAVALLE LABORATORY, INC.**

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728  
 www.dellavallelab.com 559 233-6129 800 228-9896 • Fax 559 268-8174

No. of Samples \_\_\_\_\_ No. Bottles \_\_\_\_\_  
**Water Type:**  Drinking  Wastewater  
 Ag Water  Ground Water  Mon. Well  
 Supply Water  Other \_\_\_\_\_

**Analysis and Bottles Required: (Please Indicate Analysis)**

- DWW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N Field Test)  
 (1) 1 L plastic, unpreserved (white)
- DWW2: (DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)  
 (1) 1 L plastic, unpreserved (white)
- DCW1: (EC, NO<sub>3</sub>-N, TDS)  
 (1) 1 L plastic, unpreserved (white)
- DPW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK)  
 (1) 1 L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl)  
 (1) 1 L plastic, unpreserved (white)

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
<b>5-4-23</b>	<b>1:09pm</b>		<b>-0-6</b>
<b>5-4-23</b>	<b>1:19pm</b>		<b>-0-2</b>

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>																																																																																																																																																																																															
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest																																																																																																																																																																																										
<b>Container:</b> Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>																																																																																																																																																																																										
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> 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																																																																																																																																																																																					
<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>																																																																																																																																																																																															
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																														
	250 mL unpreserved (White) Plastic																																																																																																																																																																																														
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																																																																																																														
	* pH Value																																																																																																																																																																																														
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic																																																																																																																																																																																														
	* pH Value																																																																																																																																																																																														
	500 mL unpreserved (White) Plastic	1	1																																																																																																																																																																																												
1 L unpreserved (White) Plastic																																																																																																																																																																																															
1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																															
Special	500mL unpreserved (White) Glass																																																																																																																																																																																														
	PO4-P Kit																																																																																																																																																																																														
	Other:																																																																																																																																																																																														
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>																																																																																																																																																																																															
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																														
	250 mL unpreserved (White) Plastic																																																																																																																																																																																														
	250 mL HNO <sub>3</sub> (Red) Plastic																																																																																																																																																																																														
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic																																																																																																																																																																																														
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	1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																														
VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																																																																																																														
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)																																																																																																																																																																																														
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)																																																																																																																																																																																														
	40mL AG VOA unpreserved (White) (Set of 3)																																																																																																																																																																																														
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																														
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)																																																																																																																																																																																														
	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																																																																																																														
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										250 mL AG unpreserved (White)										250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										500 mL glass unpreserved (White)										500 mL AG HCl (Blue)										1 L AG unpreserved (White)										1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										Special	1 L AG HCl (Blue)										Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										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:									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																														
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HAA5 - 250mL AG Ammonium Chlorite																																																																																																																																																																																															
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Other:																																																																																																																																																																																															



05/05/23 07:00

23E0614

*[Handwritten Signature]*



Jersey Creek Dairy  
7871 Houston Ave  
Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 08/04/2023 7:15  
Reported: 08/16/2023 10:14

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H0628-01	Well #5 (Faucet @ Standpipe)	Ag Water	Steve Sisney		08/03/2023 6:29

Default Cooler      Temperature on Receipt °C: -0.3  
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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### Sample Results

**Sample: Well #5 (Faucet @ Standpipe)  
23H0628-01 (Water)**

Sampled: 8/3/2023 6:29

Sampled By: Steve Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Alkalinity as CaCO<sub>3</sub></b>	<b>61.6</b>	mg/L	10.0	1		08/07/23 19:43	SM 2320 B		BEH0249
<b>Calcium</b>	<b>26.5</b>	mg/L	0.1	1		08/09/23 10:17	EPA 200.7		BEH0251
<b>Chloride</b>	<b>32.4</b>	mg/L	0.2	1	250	08/05/23 01:36	EPA 300.0		BEH0234
Carbonate as CaCO <sub>3</sub>	ND	mg/L	1	1		08/07/23 19:43	SM 2320 B		BEH0249
<b>Electrical Conductivity</b>	<b>0.49</b>	mmhos/cm	0.01	1		08/07/23 19:43	SM 2510 B		BEH0249
<b>Electrical Conductivity umhos</b>	<b>493</b>	umhos/cm	10.0	1		08/07/23 19:43	SM 2510 B		BEH0249
<b>Bicarbonate as CaCO<sub>3</sub></b>	<b>61.6</b>	mg/L	5.00	1		08/07/23 19:43	SM 2320 B		BEH0249
Potassium	ND	mg/L	0.500	1		08/09/23 10:17	EPA 200.7		BEH0251
<b>Magnesium</b>	<b>0.8</b>	mg/L	0.1	1		08/09/23 10:17	EPA 200.7		BEH0251
<b>Sodium</b>	<b>69</b>	mg/L	1	1		08/09/23 10:17	EPA 200.7		BEH0251
Ammonia (as N)	ND	mg/L	0.500	1		08/08/23 16:41	SM 4500-NH <sub>3</sub> H		BEH0348
<b>Ammonia (as N)</b>	<b>0.250</b>	mg/L	0.00	1		08/03/23 06:29	Field		BEH0229
<b>Nitrate Nitrogen as NO<sub>3</sub>N</b>	<b>11.0</b>	mg/L	0.1	1	10	08/07/23 20:50	EPA 300.0		BEH0288
Hydroxide as CaCO <sub>3</sub>	ND	mg/L	1.00	1		08/07/23 19:43	SM 2320 B		BEH0249
<b>pH</b>	<b>7.8</b>	units	1.0	1		08/07/23 19:43	SM 4500-H+	H	BEH0249
<b>Sulfate (SO<sub>4</sub>)</b>	<b>69.5</b>	mg/L	0.5	1	250	08/05/23 01:36	EPA 300.0		BEH0234
<b>Total Filterable Solids (TDS)</b>	<b>303</b>	mg/L	10.0	1		08/09/23 14:20	SM 2540 C		BEH0228

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## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0228</b>									
<b>Blank (BEH0228-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/8/2023 Analyzed: 8/9/2023				
<b>LCS (BEH0228-BS1)</b>					Prepared: 8/8/2023 Analyzed: 8/9/2023				
Total Filterable Solids (TDS)	40.0	10.0	mg/L	2000	2.00	0-200			
<b>Duplicate (BEH0228-DUP1)</b>		<b>Source: 23H0620-01</b>			Prepared: 8/8/2023 Analyzed: 8/9/2023				
Total Filterable Solids (TDS)	3430	10.0	mg/L	3520			2.40	10	
<b>Duplicate (BEH0228-DUP2)</b>		<b>Source: 23H0631-01</b>			Prepared: 8/8/2023 Analyzed: 8/9/2023				
Total Filterable Solids (TDS)	1820	10.0	mg/L	1700			7.09	10	
<b>Reference (BEH0228-SRM1)</b>					Prepared: 8/8/2023 Analyzed: 8/9/2023				
Total Filterable Solids (TDS)	327		mg/L	325.0	101	90-110			
<b>Reference (BEH0228-SRM2)</b>					Prepared: 8/8/2023 Analyzed: 8/9/2023				
Total Filterable Solids (TDS)	497		mg/L	495.0	100	90-110			

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0234</b>									
<b>Blank (BEH0234-BLK1)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/4/2023									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0234-BLK2)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/4/2023									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>Blank (BEH0234-BLK3)</b>									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/5/2023									
Sulfate (SO <sub>4</sub> ) ND 0.5 mg/L									
<b>LCS (BEH0234-BS1)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/4/2023									
Sulfate (SO <sub>4</sub> ) 5.0 0.5 mg/L									
<b>LCS (BEH0234-BS2)</b>									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/5/2023									
Sulfate (SO <sub>4</sub> ) 4.9 0.5 mg/L									
<b>Duplicate (BEH0234-DUP1)</b>									
Chloride 34.6 0.2 mg/L Prepared & Analyzed: 8/4/2023									
Sulfate (SO <sub>4</sub> ) 31.5 0.5 mg/L									
<b>Duplicate (BEH0234-DUP2)</b>									
Chloride 93.8 0.2 mg/L Prepared & Analyzed: 8/5/2023									
Sulfate (SO <sub>4</sub> ) 13.2 0.5 mg/L									
<b>Matrix Spike (BEH0234-MS1)</b>									
Chloride 43.9 0.2 mg/L Prepared & Analyzed: 8/4/2023									
Sulfate (SO <sub>4</sub> ) 41.6 0.5 mg/L									
<b>Matrix Spike (BEH0234-MS2)</b>									
Chloride 101.5 0.2 mg/L Prepared & Analyzed: 8/5/2023									
Sulfate (SO <sub>4</sub> ) 23.1 0.5 mg/L									
<b>Reference (BEH0234-SRM1)</b>									
Chloride 12.6 mg/L Prepared & Analyzed: 8/4/2023									
Sulfate (SO <sub>4</sub> ) 9.9 mg/L									
<b>Reference (BEH0234-SRM2)</b>									
Chloride 12.8 mg/L Prepared & Analyzed: 8/4/2023									
Sulfate (SO <sub>4</sub> ) 10.0 mg/L									

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0234 (Continued)</b>									
<b>Reference (BEH0234-SRM3)</b>									
Chloride	12.8		mg/L	12.50		102	90-110		
Sulfate (SO4)	10.0		mg/L	10.00		100	90-110		

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## **Quality Control (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0249</b>									
<b>Blank (BEH0249-BLK1)</b>									Prepared & Analyzed: 8/7/2023
Hydroxide as CaCO3	ND	1.00	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Blank (BEH0249-BLK2)</b>									Prepared & Analyzed: 8/7/2023
pH	5.5	1.0	units						
Alkalinity as CaCO3	ND	10.0	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Blank (BEH0249-BLK3)</b>									Prepared & Analyzed: 8/7/2023
Alkalinity as CaCO3	ND	10.0	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						
<b>Duplicate (BEH0249-DUP1)</b>									Prepared & Analyzed: 8/7/2023
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
Alkalinity as CaCO3	93.7	10.0	mg/L		94.4			0.776	10
Carbonate as CaCO3	ND	1	mg/L		ND				10
Electrical Conductivity	0.62	0.01	mmhos/cm		0.62			0.160	10
pH	8.0	1.0	units		7.5			6.47	10
Electrical Conductivity umhos	624	10.0	umhos/cm		623			0.160	10
<b>Duplicate (BEH0249-DUP2)</b>									Prepared & Analyzed: 8/7/2023
Electrical Conductivity	0.65	0.01	mmhos/cm		0.65			0.600	10
Carbonate as CaCO3	ND	1	mg/L		ND				10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
Alkalinity as CaCO3	155	10.0	mg/L		154			0.239	10
pH	8.3	1.0	units		8.2			0.121	10
Electrical Conductivity umhos	652	10.0	umhos/cm		648			0.600	10

Reference (BEH0249-SRM1)

Prepared & Analyzed: 8/7/2023

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0249 (Continued)</b>									
<b>Reference (BEH0249-SRM1)</b>									
Prepared & Analyzed: 8/7/2023									
Electrical Conductivity      532      umhos/cm      538.0      98.9      90-110									
Alkalinity as CaCO <sub>3</sub> 40.7      mg/L      40.60      100      90-110									
<b>Reference (BEH0249-SRM2)</b>									
Prepared & Analyzed: 8/7/2023									
Alkalinity as CaCO <sub>3</sub> 39.6      mg/L      40.60      97.5      90-110									
Electrical Conductivity      547      umhos/cm      538.0      102      90-110									
<b>Reference (BEH0249-SRM3)</b>									
Prepared & Analyzed: 8/7/2023									
Electrical Conductivity      564      umhos/cm      538.0      105      90-110									
Alkalinity as CaCO <sub>3</sub> 40.8      mg/L      40.60      100      90-110									
<b>Reference (BEH0249-SRM4)</b>									
Prepared & Analyzed: 8/7/2023									
pH	4.0		units		4.000		101	97.5-102.5	
<b>Reference (BEH0249-SRM5)</b>									
Prepared & Analyzed: 8/7/2023									
pH	4.0		units		4.000		101	97.5-102.5	
<b>Reference (BEH0249-SRM6)</b>									
Prepared & Analyzed: 8/7/2023									
pH	4.0		units		4.000		100	97.5-102.5	
<b>Reference (BEH0249-SRM7)</b>									
Prepared & Analyzed: 8/7/2023									
pH	5.8		units		5.820		101	28178-101.7:	

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7871 Houston Ave  
Hanford, CA 93230

Account# 00-0019140  
Account Manager: Ben Nydam  
Submitted By: Jared Fragoso  
Ranch: 14857 5th Ave Hanford

Received: 08/04/2023 7:15  
Reported: 08/16/2023 10:14

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0251</b>									
<b>Blank (BEH0251-BLK1)</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>Blank (BEH0251-BLK2)</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Magnesium	ND	0.1	mg/L						
<b>LCS (BEH0251-BS1)</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Calcium	39.2	0.1	mg/L	35.71		110	90-110		
Sodium	39	1	mg/L	35.71		110	90-110		
Potassium	38.5	0.500	mg/L	35.71		108	90-110		
Magnesium	39.2	0.1	mg/L	35.71		110	90-110		
<b>LCS (BEH0251-BS2)</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Calcium	40.4	0.1	mg/L	35.71		113	90-110		
Potassium	38.9	0.500	mg/L	35.71		109	90-110		
Sodium	38	1	mg/L	35.71		107	90-110		
Magnesium	40.3	0.1	mg/L	35.71		113	90-110		
<b>Duplicate (BEH0251-DUP1)</b>									
<b>Source: 23H0614-07</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Calcium	2.8	0.1	mg/L		2.7		2.00	15	
Potassium	5.20	0.500	mg/L		5.16		0.773	15	
Sodium	68	1	mg/L		70		3.19	15	
Magnesium	0.8	0.1	mg/L		0.8		3.99	15	
<b>Matrix Spike (BEH0251-MS1)</b>									
<b>Source: 23H0614-07</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Calcium	42.8	0.1	mg/L	35.71	2.7	112	90-110		
Potassium	43.5	0.500	mg/L	35.71	5.16	107	90-110		
Sodium	109	1	mg/L	35.71	70	109	90-110		
Magnesium	40.9	0.1	mg/L	35.71	0.8	112	90-110		
<b>Matrix Spike (BEH0251-MS2)</b>									
<b>Source: 23H0876-01</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Sodium	308	1	mg/L	35.71	253	155	90-110		
Potassium	47.6	0.500	mg/L	35.71	6.12	116	90-110		
Calcium	246	0.1	mg/L	35.71	186	170	90-110		
Magnesium	227	0.1	mg/L	35.71	177	141	90-110		
<b>Reference (BEH0251-SRM2)</b>									
Prepared: 8/8/2023 Analyzed: 8/9/2023									
Potassium	22.2		mg/L	21.90		101	90-110		

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**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0251 (Continued)</b>									
<b>Reference (BEH0251-SRM2)</b>									
Sodium	95		mg/L	91.50	103	90-110			
<b>Reference (BEH0251-SRM3)</b>									
Calcium	82.6		mg/L	79.00	105	90-110			
Magnesium	31.2		mg/L	30.60	102	90-110			

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0288</b>									
<b>Blank (BEH0288-BLK1)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/7/2023				
<b>Blank (BEH0288-BLK2)</b>									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/7/2023				
<b>LCS (BEH0288-BS1)</b>									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	98.9	90-110			
<b>Duplicate (BEH0288-DUP1)</b>									
Nitrate Nitrogen as NO3N	2.3	0.1	mg/L	2.3			0.0428	10	
<b>Matrix Spike (BEH0288-MS1)</b>									
Nitrate Nitrogen as NO3N	7.4	0.1	mg/L	5.000	2.3	100	90-110		
<b>Reference (BEH0288-SRM1)</b>									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00	99.2	90-110			
<b>Reference (BEH0288-SRM2)</b>									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00	99.3	90-110			

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0348</b>									
<b>Blank (BEH0348-BLK1)</b>									
Ammonia (as N)	ND	0.500	mg/L		Prepared & Analyzed: 8/8/2023				
<b>Blank (BEH0348-BLK2)</b>									
Ammonia (as N)	ND	0.500	mg/L		Prepared & Analyzed: 8/8/2023				
<b>LCS (BEH0348-BS1)</b>									
Ammonia (as N)	9.59	0.500	mg/L	9.990		96.0	90-110		
<b>LCS (BEH0348-BS2)</b>									
Ammonia (as N)	9.87	0.500	mg/L	9.990		98.8	90-110		
<b>Duplicate (BEH0348-DUP1)</b>									
Ammonia (as N)	4.55	0.500	mg/L	4.32				5.28	10
<b>Duplicate (BEH0348-DUP2)</b>									
Ammonia (as N)	6.64	0.500	mg/L	6.62				0.205	10
<b>Matrix Spike (BEH0348-MS1)</b>									
Ammonia (as N)	14.4	0.500	mg/L	9.990	4.32	101	90-110		
<b>Matrix Spike (BEH0348-MS2)</b>									
Ammonia (as N)	18.7	0.500	mg/L	9.990	6.62	121	90-110		
<b>Reference (BEH0348-SRM1)</b>									
Ammonia (as N)	4.24		mg/L	5.470		77.6	90-110		

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08/04/23 07:15

23H0628



<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up <input type="checkbox"/> Picked up samples placed in Ice chest										
<b>Container:</b> Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/> <b>Refrigerant:</b> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>										
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <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
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	1								
	* pH Value	2								
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic	1								
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	1 L AG HCl (Blue)									
Special	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	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:									