



P & M DAIRY

2023 Annual Report

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|--------------------------------------------------|---------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Report Form | <input checked="" type="checkbox"/> Attachment H |
| <input checked="" type="checkbox"/> Attachment A | <input checked="" type="checkbox"/> Attachment I |
| <input checked="" type="checkbox"/> Attachment B | <input checked="" type="checkbox"/> Attachment J |
| <input checked="" type="checkbox"/> Attachment C | <input checked="" type="checkbox"/> Manure Tracking Manifests |
| <input checked="" type="checkbox"/> Attachment D | <input checked="" type="checkbox"/> New or Revised Waste Water Agreements |
| <input checked="" type="checkbox"/> Attachment E | <input checked="" type="checkbox"/> Groundwater Monitoring Samples |
| <input checked="" type="checkbox"/> Attachment F | <input checked="" type="checkbox"/> Monitoring Well Report |
| <input checked="" type="checkbox"/> Attachment G | <input checked="" type="checkbox"/> Owner/Operator Change Form |

Enclosed are the required documents to be submitted to the Regional Water Quality Control Board Central Valley Region in compliance with Order No. R5-2013-0122 Waste Discharge Requirements, General Order for Existing Milk Cow Dairies for July 1, 2024.

(See attached delivery confirmation)

Annual Report

P & M Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	P & M Dairy
Facility Address	9535 Avenue 160, Tipton CA 93272

Owner/Operator as of 12/31/2023

Operator Name	Mike Vander Poel
Operator Phone	(559) 288-8717
Owner Name	Paula & Mike Vander Poel
Owner Phone	(559) 288-8717

1. Beginning and end dates of the annual reporting period: crops harvested January 1, 2023 through December 31, 2023.
2. Maximum and average number and type of animals (see Attachment A).
3. Estimated amount of total manure and process wastewater generated by the facility (see Attachment A).
4. Estimated amount of total manure and process wastewater applied to each land application area (see Attachment B).
5. Quantified ratio of total nitrogen applied to land application areas and total nitrogen removed by crop harvest (see Attachment B).
6. Estimated amount of total manure and process wastewater transferred to other persons by the facility (see Attachment C).
7. Total number of acres and the Assessor Parcel Numbers for all land application areas that were not used for application of manure or process wastewater (see Attachment D).
8. Total number of acres and the Assessor Parcel Numbers for all land application areas that were used for land application of manure and process wastewater (see Attachment D).

9. Summary of manure and process wastewater discharges from the production area

Provide 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 annual reporting period, including the date, time, location, approximate volume, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

- No discharges occurred during the reporting period.
 Yes. _____ Number of discharges occurred (see Attachment H).

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

10. Summary of storm water discharges from the production area

Provide a summary of all storm water discharges from the production area to surface water, that occurred during the annual reporting period, including the date, time, approximate volume, duration, location, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

No discharges occurred during the reporting period.

Yes. _____ Number of discharges occurred (see Attachment I).

11. Summary of discharges from the land application area

Provide a summary of all discharges from the land application area to surface water, that occurred during the annual reporting period, including the date, time, approximate volume, location, source of discharge (i.e. tailwater, wastewater or blended wastewater), a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

No discharges occurred during the reporting period.

Yes. _____ Number of discharges occurred (see Attachment J).

12. Nutrient Management Plan update

Has the NMP been updated, and if so, was it updated by a Certified Nutrient Management Specialist?

No.

Yes, the new NMP was developed and approved by a Certified Nutrient Management Specialist.

13. Manure/Process Wastewater Tracking Manifests

Did you sell, give away, or otherwise remove manure or process wastewater from your property?

No.

Yes, see attached manifests.

14. Written Agreements

Any process wastewater transferred to a third party that receives process wastewater from your dairy for its own use must have a written agreement consistent with State requirements. Attach copies of revised and/or new agreements not submitted previously. Do not resubmit agreements submitted previously.

Not applicable; no written agreements.

No changes in agreement(s).

Yes, a new or revised agreement is attached.

15. Laboratory Analyses for Discharges

If you answered Yes to items #9, 10, or 11 above, attach copies of all laboratory analyses for all discharges (manure, process wastewater or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results, as applicable. (Results for Manure and process wastewater, storm water, and/or storm water are provided).

Not Applicable.

Yes, provided with Attachment H, I, or J for #9, 10 and 11, respectively.

16. Tabulated Nutrient Analytical Data

Attach tabulated analytical data for samples of manure, process wastewater, irrigation water, soil, and plant tissue. The data shall be tabulated to clearly show sample dates, constituents analyzed, constituent concentrations, and detection limits (see Attachment E).



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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

17. Record-Keeping Results

Attach results of the Record-Keeping Requirements for the production and land application areas specified in Record-Keeping Requirements. These include:

- * Records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.
- * Records of the date, time, and estimated volume of any overflow or bypass of the wastewater storage or conveyance structures.
- * Expected and actual crop yields (see Attachment F).
- * Identification of crop, acreage, and dates of planting and harvest for each field (see Attachment F).
- * Dates, locations, and approximate weight and moisture content of manure applied to each field (see Attachment B).
- * Dates, locations, and volume of process wastewater applied to each field (see Attachment B).
- * Whether precipitation occurred, or standing water was present at the time of manure and process wastewater applications and for 24 hours prior to and following applications (see Attachment G).
- * Total amount of nitrogen, phosphorus, and potassium actually applied to each field, including documentation of calculations for the total amount applied (see Attachment B).

18. Groundwater Monitoring Section

- Groundwater monitoring results are attached.
 Monitoring Well results are attached, if applicable.

A. All dischargers must attach groundwater information for supply wells and subsurface (tile) drainage systems including the location of sample collection and all field and laboratory data, including all laboratory analyses (including chain-of-custody forms and laboratory quality assurance/quality control results).

B. Dischargers who have monitoring well systems shall include all laboratory analyses (including chain-of-custody forms and laboratory quality assurance/quality control results) and tabular and graphical summaries of the monitoring data. Data shall be tabulated to clearly show the sample dates, constituents analyzed, constituent concentrations, detection limits, depth to groundwater and groundwater elevations. Graphical summaries of groundwater gradients and flow directions shall also be included. Each groundwater monitoring report shall include a summary data table for all historical and current groundwater elevations and analytical results. The groundwater monitoring results shall be certified by a California registered professional.

19. Storm Water Reporting Section

- No significant discharges of storm water occurred from the land application areas.
 Yes, significant discharge(s) of storm water occurred from land application areas. The following information shall be submitted for those discharges.
 It was not possible to collect any of the required samples or perform visual observations due to adverse climatic conditions.

20. Mortality Management Practices

- * Dead cows are picked up and disposed of by rendering service.

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CENTRAL VALLEY REGION

"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."

DocuSigned by:



45C24966B4F94B0
Signature of Operator of Facility

Mike Vander Poel

Print Name

6/22/2024

Title and Date

DocuSigned by:



45C24966B4F94B0
Signature of Owner of Facility

Paula & Mike Vander Poel

Print Name

6/22/2024

Title and Date



INNOVATIVE AG SERVICES

P & M Dairy 2023

Estimated Manure and Nutrients Generated (Attachment A)

Animal Type	Maximum No. of Head	Average No. of Head*	Housing Type	Weight	Total Manure Produced (tons/year)	NITROGEN	PHOSPHORUS	POTASSIUM	SALTS
						Net (LB) Available for Land Application			
Hol Milk Cows	675	658	Milk Freestall -	1,400	16,699.31	237,768.30	40,828.90	55,239.10	433,747.02
Hol Dry Cows	220	214	Flushed	1,450	3,122.71	39,055.00	5,467.70	25,776.30	55,114.42
Hol Heifers(15-24)	560	546	Flushed	1,000	5,699.43	75,730.20	11,957.40	35,872.20	140,619.02
Hol Heifers (7-14)	325	316	Flushed	750	3,039.06	29,988.40	5,074.96	17,301.00	38,148.70
Hol Calves (4-6)	75	73	Calves Flushed	300	253.13	3,730.30	1,065.80	2,131.60	1,747.91
	1,855	1,807			28,813.64	386,272.20	64,394.76	136,320.20	669,377.08

* The Average No. of Head is used to calculate manure and nutrient production

Estimated Amount of Total Process Wastewater and Nutrients Generated

Total Gallons of Process Wastewater Generated***	Average TKN Concentration (mg/L)*	Average Total Phosphorus Concentration (mg/L)*	Average Potassium Concentration (mg/L)*	Average Total Dissolved Solids (mg/L)*	Total Nitrogen Generated (lb)**	Total Phosphorus Generated (lb)**	Total Potassium Generated (lb)**	Total Salt Generated (lb)**
12,241,158	845.33	129.80	892.00	4,250.00	86,197.67	13,235.56	90,956.21	433,367.61

* The average Total Kjeldahl Nitrogen, Total Phosphorus, Total Potassium, and Total Salt concentrations are based on an average of all process wastewater sample results for the year.

** The total pounds of Nitrogen, Phosphorus, Potassium and Total Dissolved Solids generated = Average Concentration (mg/L) X Total Gallons of Wastewater Generated X 8.33 X 0.000001.

*** The total gallons of process wastewater generated is calculated as the total gallons of process wastewater applied to all land application areas (Attachment B) plus the total gallons of process wastewater transferred offsite (Attachment C).



P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 1

Wheat, 102 Acres Planted on 11/16/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.	Potass.								
10/10/2022	Corral Solids: Main Corral	2.00	Tons	16.61	2.06	0.33	0.90	%	204	7,008	1,123	3,062	0		
10/15/2022	Ground Water: Well Avg	4.50	Acre Inches		15.58			mg/L		1,618	0	0	53,324		
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		1,428					
01/08/2023	Ground Water: Well Avg	4.60	Acre Inches		15.58			mg/L		1,653	0	0	54,509		
01/08/2023	Waste Water: Main Lagoon	0.25	Acre Inches	1,160.00	229.00	1,120.0	mg/L		692,435	6,691	1,321	6,460	31,724		
04/29/2023	Ground Water: Well Avg	4.70	Acre Inches		15.58			mg/L		1,689	0	0	55,694		
05/22/2023	Harvest	17.80	Tons	67.78	1.28	0.28	1.47	%						14,976	
Acre Inches Applied:		14.05		Totals:					204	692,435	20,088	2,444	9,522	195,250	14,976
Season Nitrogen Ratio:		1.34		Lbs Per Acre:						197	24	93	1,914	147	



P & M Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Corn, 102 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/26/2023	Ground Water: Well Avg	5.10	Acre Inches	15.58			mg/L			1,833	0	0	60,434	
06/30/2023	Ground Water: Well Avg	5.30	Acre Inches	15.58			mg/L			1,905	0	0	62,803	
06/30/2023	Waste Water: Main Lagoon	0.40	Acre Inches	1,160.00	229.00	1,120.0	mg/L			1,107,895	10,705	2,113	10,337	50,758
07/18/2023	Ground Water: Well Avg	5.25	Acre Inches	15.58			mg/L			1,887	0	0	62,211	
07/18/2023	Waste Water: Main Lagoon	0.35	Acre Inches	687.00	78.30	627.00	mg/L			969,409	5,548	632	5,063	30,121
08/01/2023	Ground Water: Well Avg	5.40	Acre Inches	15.58			mg/L			1,941	0	0	63,989	
08/01/2023	Waste Water: Main Lagoon	0.55	Acre Inches	687.00	78.30	627.00	mg/L			1,523,356	8,718	993	7,956	47,332
08/27/2023	Ground Water: Well Avg	5.75	Acre Inches	15.58			mg/L			2,067	0	0	68,136	
08/27/2023	Waste Water: Main Lagoon	0.55	Acre Inches	687.00	78.30	627.00	mg/L			1,523,356	8,718	993	7,956	47,332
09/05/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58			mg/L			1,870	0	0	61,618	
09/18/2023	Harvest	31.40	Tons	62.19	1.45	0.26	1.50	%						35,119
Acre Inches Applied:		33.85		Totals:				5,124,016	45,191	4,733	31,312	554,734	35,119	
Season Nitrogen Ratio:		1.29		Lbs Per Acre:						443	46	307	5,439	344



P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 2

Wheat, 76 Acres Planted on 11/14/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units							
10/15/2022	Corral Solids: Main Corral	2.00	Tons	16.61	2.06	0.33	0.90	%	152		5,222	837	2,282	0	
10/23/2022	Ground Water: Well Avg	4.50	Acre Inches		15.58			mg/L			1,205	0	0	39,731	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,064				
02/28/2023	Ground Water: Well Avg	4.80	Acre Inches		15.58			mg/L			1,286	0	0	42,380	
02/28/2023	Waste Water: Main Lagoon	0.25	Acre Inches	1,160.00	229.00	1,120.0		mg/L		515,932	4,986	984	4,813	23,638	
04/18/2023	Ground Water: Well Avg	5.10	Acre Inches		15.58			mg/L			1,366	0	0	45,029	
05/22/2023	Harvest	18.70	Tons	68.48	1.30	0.29	1.54	%							11,647
Acre Inches Applied:		14.65		Totals:					152	515,932	15,129	1,821	7,095	150,778	11,647
Season Nitrogen Ratio:		1.30		Lbs Per Acre:							199	24	93	1,984	153

P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 2

Corn, 76 Acres Planted on 06/16/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.								
05/27/2023	Ground Water: Well Avg	5.50	Acre Inches		15.58				1,473	0	0	48,561		
07/08/2023	Ground Water: Well Avg	5.90	Acre Inches		15.58				1,580	0	0	52,093		
07/08/2023	Waste Water: Main Lagoon	0.40	Acre Inches		687.00	78.30	627.00	mg/L	825,491	4,724	538	4,311	25,648	
07/25/2023	Ground Water: Well Avg	5.75	Acre Inches		15.58				1,540	0	0	50,768		
07/25/2023	Waste Water: Main Lagoon	0.40	Acre Inches		687.00	78.30	627.00	mg/L	825,491	4,724	538	4,311	25,648	
08/12/2023	Ground Water: Well Avg	5.80	Acre Inches		15.58				1,553	0	0	51,210		
08/12/2023	Waste Water: Main Lagoon	0.35	Acre Inches		687.00	78.30	627.00	mg/L	722,304	4,134	471	3,773	22,443	
09/01/2023	Ground Water: Well Avg	5.60	Acre Inches		15.58				1,500	0	0	49,443		
09/01/2023	Waste Water: Main Lagoon	0.35	Acre Inches		687.00	78.30	627.00	mg/L	722,304	4,134	471	3,773	22,443	
09/18/2023	Harvest	31.20	Tons	64.26	1.27	0.56	1.42	%					21,525	
Acre Inches Applied:		30.05					Totals:		3,095,590	25,362	2,019	16,168	348,257	21,525
Season Nitrogen Ratio:		1.18					Lbs Per Acre:		334	27	213	4,582	283	

P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 74 Acres Planted on 11/16/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.	Potass.	Units								
10/20/2022	Corral Solids: Main Corral	2.00	Tons	16.61	2.06	0.33	0.90	%	148		5,085	815	2,221	0		
10/22/2022	Ground Water: Well Avg	4.20	Acre Inches		15.58			mg/L			1,095	0	0	36,107		
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,036					
02/08/2023	Ground Water: Well Avg	4.20	Acre Inches		15.58			mg/L			1,095	0	0	36,107		
02/08/2023	Waste Water: Main Lagoon	0.20	Acre Inches	1,160.00	229.00	1,120.0		mg/L		401,884	3,884	767	3,750	18,412		
04/15/2023	Ground Water: Well Avg	4.20	Acre Inches		15.58			mg/L			1,095	0	0	36,107		
05/22/2023	Harvest	18.10	Tons	66.72	1.21	0.27	1.41	%							10,787	
Acre Inches Applied:		12.80							Totals:	148	401,884	13,290	1,581	5,971	126,732	10,787
Season Nitrogen Ratio:		1.23							Lbs Per Acre:			180	21	81	1,713	146

P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 3

Corn, 74 Acres Planted on 06/06/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/25/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			1,356	0	0	44,703		
06/16/2023	Ground Water: Well Avg	5.80	Acre Inches	15.58		mg/L			1,513	0	0	49,862		
06/16/2023	Waste Water: Main Lagoon	0.25	Acre Inches	1,160.00	229.00	1,120.0	mg/L		502,355	4,854	958	4,686	23,015	
06/30/2023	Ground Water: Well Avg	5.75	Acre Inches	15.58		mg/L			1,499	0	0	49,432		
06/30/2023	Waste Water: Main Lagoon	0.30	Acre Inches	1,160.00	229.00	1,120.0	mg/L		602,825	5,825	1,150	5,624	27,618	
07/20/2023	Ground Water: Well Avg	5.90	Acre Inches	15.58		mg/L			1,538	0	0	50,722		
07/20/2023	Waste Water: Main Lagoon	0.35	Acre Inches	687.00	78.30	627.00	mg/L		703,296	4,025	459	3,673	21,852	
08/25/2023	Ground Water: Well Avg	5.60	Acre Inches	15.58		mg/L			1,461	0	0	48,142		
08/25/2023	Waste Water: Main Lagoon	0.30	Acre Inches	687.00	78.30	627.00	mg/L		602,825	3,450	393	3,149	18,730	
09/18/2023	Harvest	30.98	Tons	65.87	1.33	0.20	1.86	%					20,812	
Acre Inches Applied:		29.45		Totals:					2,411,302	25,522	2,960	17,132	334,077	20,812
Season Nitrogen Ratio:		1.23		Lbs Per Acre:					345	40	232	4,515		281



P & M Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Wheat, 146 Acres Planted on 11/16/2022

Date	Event/Source	Amount Applied/Yield (per Acre) Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/24/2022	Corral Solids: Main Corral	2.00 Tons	16.61	2.06	0.33	0.90	%	292		10,032	1,607	4,383	0	
12/08/2022	Ground Water: Well Avg	4.50 Acre Inches		15.58			mg/L			2,316	0	0	76,326	
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00			%			2,044				
01/28/2023	Ground Water: Well Avg	4.80 Acre Inches		15.58			mg/L			2,470	0	0	81,414	
03/22/2023	Ground Water: Well Avg	4.60 Acre Inches		15.58			mg/L			2,367	0	0	78,022	
05/22/2023	Harvest	17.50 Tons	67.60	1.33	0.29	1.43	%							22,020
Acre Inches Applied:		13.90	Totals:					292		19,228	1,607	4,383	235,762	22,020
Season Nitrogen Ratio:		0.87	Lbs Per Acre:							132	11	30	1,615	151

Field Name: 4

Corn, 146 Acres Planted on 06/07/2023

Date	Event/Source	Amount Applied/Yield (per Acre) Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/26/2023	Ground Water: Well Avg	5.10 Acre Inches		15.58			mg/L			2,624	0	0	86,504	
06/17/2023	Ground Water: Well Avg	5.10 Acre Inches		15.58			mg/L			2,624	0	0	86,504	
07/15/2023	Fertilize - UN32	35.00 Gallons		32.00	0.00	0.00	%			13,622	0	0	0	
07/15/2023	Ground Water: Well Avg	5.80 Acre Inches		15.58			mg/L			2,984	0	0	98,376	
08/25/2023	Fertilize - UN32	35.00 Gallons		32.00	0.00	0.00	%			13,622	0	0	0	
08/25/2023	Ground Water: Well Avg	5.80 Acre Inches		15.58			mg/L			2,984	0	0	98,376	
09/10/2023	Ground Water: Well Avg	5.10 Acre Inches		15.58			mg/L			2,624	0	0	86,504	
09/20/2023	Harvest	31.60 Tons	64.33	1.48	0.28	1.77	%							48,711
Acre Inches Applied:		26.90	Totals:							41,083	0	0	456,263	48,711
Season Nitrogen Ratio:		0.84	Lbs Per Acre:							281	0	0	3,125	334



P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 5

Wheat, 153 Acres Planted on 11/12/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units							
10/24/2022	Corral Solids: Main Corral	3.00	Tons	16.61	2.06	0.33	0.90	%	459		15,770	2,526	6,890	0	
12/07/2022	Ground Water: Well Avg	4.50	Acre Inches		15.58			mg/L			2,427	0	0	79,985	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			2,142				
01/22/2023	Ground Water: Well Avg	4.50	Acre Inches		15.58			mg/L			2,427	0	0	79,985	
03/20/2023	Ground Water: Well Avg	4.50	Acre Inches		15.58			mg/L			2,427	0	0	79,985	
05/22/2023	Harvest	17.60	Tons	67.71	1.21	0.28	1.48	%							21,042
Acre Inches Applied:		13.50		Totals:					459	25,191	2,526	6,890	239,956	21,042	
Season Nitrogen Ratio:		1.20		Lbs Per Acre:							165	17	45	1,568	138

P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 5

Corn, 153 Acres Planted on 06/12/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/31/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			2,804	0	0	92,427	
06/22/2023	Fertilize - UN32	35.00	Gallons	32.00	0.00	0.00 %			14,275	0	0	0	
06/22/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			2,804	0	0	92,427	
07/10/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			2,804	0	0	92,427	
07/25/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			2,804	0	0	92,427	
08/09/2023	Fertilize - UN32	35.00	Gallons	32.00	0.00	0.00 %			14,275	0	0	0	
08/09/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			2,804	0	0	92,427	
08/23/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			2,804	0	0	92,427	
09/04/2023	Ground Water: Well Avg	5.20	Acre Inches	15.58		mg/L			2,804	0	0	92,427	
09/20/2023	Harvest	30.70	Tons	65.18	1.44	0.25	1.72 %						47,103
Acre Inches Applied:		36.40		Totals:					48,181	0	0	646,991	47,103
Season Nitrogen Ratio:		1.02		Lbs Per Acre:					315	0	0	4,229	308

P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 6

Wheat, 215 Acres Planted on 11/13/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units							
10/20/2022	Corral Solids: Main Corral	3.00	Tons	16.61	2.06	0.33	0.90	%	645		22,160	3,550	9,681	0	
10/22/2022	Ground Water: Well Avg	4.50	Acre Inches		15.58			mg/L			3,410	0	0	112,398	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			3,010				
01/20/2023	Ground Water: Well Avg	5.10	Acre Inches		15.58			mg/L			3,864	0	0	127,385	
02/08/2023	Ground Water: Well Avg	5.30	Acre Inches		15.58			mg/L			4,016	0	0	132,380	
04/22/2023	Ground Water: Well Avg	5.20	Acre Inches		15.58			mg/L			3,941	0	0	129,882	
05/22/2023	Harvest	17.90	Tons	68.10	1.20	0.29	1.55	%							29,464
Acre Inches Applied:		20.10							Totals:	645	40,401	3,550	9,681	502,044	29,464
Season Nitrogen Ratio:		1.37							Lbs Per Acre:		188	17	45	2,335	137

P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 6

Corn, 215 Acres Planted on 06/11/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units							
05/27/2023	Corral Solids: Main Corral	6.00	Tons	16.61	2.06	0.33	0.90	%	1,290		44,320	7,099	19,363	0	
05/31/2023	Ground Water: Well Avg	5.20	Acre Inches		15.58			mg/L			3,941	0	0	129,882	
06/24/2023	Ground Water: Well Avg	5.80	Acre Inches		15.58			mg/L			4,395	0	0	144,869	
07/11/2023	Ground Water: Well Avg	5.90	Acre Inches		15.58			mg/L			4,470	0	0	147,367	
07/25/2023	Fertilize - UN32	25.00	Gallons		32.00	0.00	0.00	%			14,328	0	0	0	0
07/25/2023	Ground Water: Well Avg	5.75	Acre Inches		15.58			mg/L			4,356	0	0	143,620	
08/12/2023	Ground Water: Well Avg	5.00	Acre Inches		15.58			mg/L			3,788	0	0	124,887	
08/26/2023	Ground Water: Well Avg	4.80	Acre Inches		15.58			mg/L			3,638	0	0	119,890	
09/04/2023	Ground Water: Well Avg	4.50	Acre Inches		15.58			mg/L			3,410	0	0	112,398	
09/25/2023	Harvest	31.00	Tons	64.73	1.41	0.27	1.64	%							66,291
Acre Inches Applied:		36.95		Totals:					1,290	86,645	7,099	19,363	922,913	66,291	
Season Nitrogen Ratio:		1.31		Lbs Per Acre:							403	33	90	4,293	308

P & M Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 6P

Pistachios, 89 Acres Planted on 01/01/2021

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00	%				1,246				
02/11/2023	Ground Water: Well Avg	3.25	Acre Inches	15.58	mg/L				1,019	0	0	33,604	
04/10/2023	Ground Water: Well Avg	3.75	Acre Inches	15.58	mg/L				1,177	0	0	38,773	
05/11/2023	Ground Water: Well Avg	3.50	Acre Inches	15.58	mg/L				1,097	0	0	36,188	
06/01/2023	Ground Water: Well Avg	4.25	Acre Inches	15.58	mg/L				1,333	0	0	43,943	
07/04/2023	Ground Water: Well Avg	4.50	Acre Inches	15.58	mg/L				1,412	0	0	46,527	
07/20/2023	Ground Water: Well Avg	4.60	Acre Inches	15.58	mg/L				1,443	0	0	47,562	
08/08/2023	Ground Water: Well Avg	4.80	Acre Inches	15.58	mg/L				1,506	0	0	49,629	
09/12/2023	Ground Water: Well Avg	4.50	Acre Inches	15.58	mg/L				1,412	0	0	46,527	
10/10/2023	Ground Water: Well Avg	4.20	Acre Inches	15.58	mg/L				1,317	0	0	43,426	
Acre Inches Applied:		37.35		Totals:					12,961	0	0	386,179	
Season Nitrogen Ratio:				Lbs Per Acre:					146	0	0	4,339	

Season Notes: Young trees. Did not bear harvest.

P & M Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 7

Wheat, 152 Acres Planted on 11/17/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
10/19/2022	Corral Solids: Main Corral	5.00	Tons	16.61	2.06	0.33	0.90	%	760	26,111	4,183	11,408	0	
10/22/2022	Ground Water: Well Avg	4.00	Acre Inches		15.58			mg/L		2,143	0	0	70,634	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		2,128				
01/22/2023	Ground Water: Well Avg	4.00	Acre Inches		15.58			mg/L		2,143	0	0	70,634	
02/18/2023	Ground Water: Well Avg	4.00	Acre Inches		15.58			mg/L		2,143	0	0	70,634	
03/20/2023	Ground Water: Well Avg	4.00	Acre Inches		15.58			mg/L		2,143	0	0	70,634	
05/22/2023	Harvest	18.70	Tons	**	0.55	0.08	0.42	%						31,266
Acre Inches Applied:		16.00		Totals:					760	36,811	4,183	11,408	282,538	31,266
Season Nitrogen Ratio:		1.18		Lbs Per Acre:						242	28	75	1,859	206

P & M Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 7

Corn, 152 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
05/28/2023	Corral Solids: Main Corral	8.00	Tons	16.61	2.06	0.33	0.90	%	1,216	41,777	6,693	18,252	0	0
06/02/2023	Ground Water: Well Avg	5.50	Acre Inches		15.58			mg/L		2,946	0	0	97,122	
06/28/2023	Ground Water: Well Avg	5.90	Acre Inches		15.58			mg/L		3,160	0	0	104,185	
07/12/2023	Ground Water: Well Avg	5.75	Acre Inches		15.58			mg/L		3,080	0	0	101,536	
07/23/2023	Ground Water: Well Avg	5.80	Acre Inches		15.58			mg/L		3,107	0	0	102,419	
08/09/2023	Ground Water: Well Avg	5.60	Acre Inches		15.58			mg/L		3,000	0	0	98,887	
08/25/2023	Ground Water: Well Avg	5.50	Acre Inches		15.58			mg/L		2,946	0	0	97,122	
09/15/2023	Harvest	31.10	Tons	65.73	1.39	0.24	1.43	%						45,036
Acre Inches Applied:		34.05		Totals:					1,216	60,016	6,693	18,252	601,271	45,036
Season Nitrogen Ratio:		1.33		Lbs Per Acre:						395	44	120	3,956	296

P & M Dairy 2023
Nutrient Applications (Attachment B)

Summary of Nutrient Applications, Removal, and Balance

	<u>Total N (Lbs)</u>	<u>Total P (Lbs)</u>	<u>Total K (Lbs)</u>	<u>Total Salts (Lbs)</u>	<u>Total Manure Applied</u>
Solid Manure	177,484.20	28,432.56	77,541.66	0.00	5,166.00 tons
Process Wastewater	85,118.90	12,783.10	79,635.00	436,715.18	12,241,158.44 gallons
Irrigation Water	168,276.50				
Fertilizer / Total Imports	70,121.00				
Atmospheric Deposition	14,098.00				
Total Nitrogen Applied	515,098.60				
Crop Nitrogen Removal	425,799.06				
Nitrogen Balance	89,299.54				
Nitrogen Ratio	1.21				

- Nutrient applications shown in Attachment B are on a crop year basis.
- Lab sample data results for applications are based on the sample taken closest to the application date. Lab sample data results are shown on 100% dry basis for manure applications and harvest events.
- Well Avg: Irrigation source representing the average nutrient values of all irrigation wells sampled for the facility during the reporting year.

** Book Value: No sample data results were available. For manure applications and plant tissue harvests, the calculations were based off book values.



P & M Dairy 2023 Nutrient Applications (Attachment B)

FIELD NITROGEN RATIO Calculation:

Field Nitrogen Ratio = "Total Nitrogen Applied to Field" / "Total Nitrogen Extracted from Field at Harvest"

ATMOSHERIC DEPOSITION Applied (Lbs) Calculation:

Nitrogen Applied (Lbs) = "14 Lbs (per year) * "Acres Planted"

HARVEST Nitrogen Extraction (Lbs) Calculation:

Nitrogen Extracted (Lbs) = ("Yield" (tons per acre) * 2000) * ((100 - "% Moisture") / 100 * "Lab Sample Data Nitrogen Value" / 100) * "Acres Planted"

IRRIGATION Nitrogen and Salts Applied (Lbs) Calculations:

Nitrogen Applied (Lbs) = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Nitrogen Value" * 0.000001) * "Acres Planted"

Salts Applied (Lbs) = "Lbs Applied per Acre" (see below) * ("Lab Sample Data TDS Value" * 0.000001) * "Acres Planted"

PROCESS WASTEWATER Nitrogen, Phosphorus, Potassium and Salts Applied (Lbs) Calculations:

Nitrogen Applied (Lbs) = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Nitrogen Value" * 0.000001) * "Acres Planted"

Phosphorus Applied (Lbs) = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Phosphorus Value" * 0.000001) * "Acres Planted"

Potassium Applied (Lbs) = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Potassium Value" * 0.000001) * "Acres Planted"

Salt Applied (Lbs) = "Lbs Applied per Acre" (see below) * ("Lab Sample Data TDS Value" * 0.000001) * "Acres Planted"

SOLID MANURE (Corral, Separator, or Compost) Nitrogen, Phosphorus, Potassium and Salts Applied (Lbs) Calculations:

Nitrogen Applied (Lbs) = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Nitrogen Value"/100) * "Acres Planted"

Phosphorus Applied (Lbs) = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Phosphorus Value"/100) * "Acres Planted"

Potassium Applied (Lbs) = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Potassium Value"/100) * "Acres Planted"

Salt Applied (Lbs) = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Ash Value"/100) * "Acres Planted"

"Lbs Applied per Acre" Calculations:

If "Application Units" = Tons, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 2000

If "Application Units" = Acres Inches, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33 *27,154.3

If "Application Units" = Acre Feet, Then Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33 * 325,851

If "Application Units" = Gallons, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33



INNOVATIVE AG SERVICES

P & M Dairy 2023

Estimated Manure and Process Wastewater/Nutrients Transferred Off-Site (Attachment C)

A. ESTIMATED TOTAL MANURE TRANSFERRED OFFSITE

Total Manure Exported (tons)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total Salts Exported (lbs)**
1,350	46,381.52	7,430.05	20,263.77	0.00

* The Total Manure (tons) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.

** Total (N, P, K, Salts) (lbs) = Sum of (N, P, K, Salts) for each manure export event based on (Manure(tons) x 2000lb/ton) x ((100-moisture%)/100) x (N, P, K, and Ash) Concentration (% dry weight) / 100 using the samples closest in date to the export event.

B. ESTIMATED TOTAL PROCESS WASTEWATER TRANSFERRED OFFSITE

Total Process Wastewater Exported (gal)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total TDS Exported (lbs)**

* The Total Manure (gals) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.

** Total (Nitrogen, Phosphorus, Potassium, TDS) (lbs) = Sum of (Nitrogen, Phosphorus, Potassium, TDS) for each wastewater export event based on (Process Wastewater(gals) x 8.33lb/gal) x (NO3-N or TKN, P, K, TDS) x 10-6 using the samples closest in date to the export event.

P & M Dairy 2023
Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x228 x240 x019 xxxx, x228 x240 x020 xxxx	102	Both
2	x228 x240 x021 xxxx	76	Both
3	x228 x240 x021 xxxx	74	Both
4	x228 x050 x010 xxxx	146	Manure
5	x228 x060 x007 xxxx, x228 x060 x009 xxxx, x228 x060 x010 xxxx, x228 x060 x011 xxxx, x228 x060 x012 xxxx, x228 x060 x021 xxxx, x228 x060 x022 xxxx, x228 x060 x028 xxxx, x228 x060 x029 xxxx, x228 x060 x031 xxxx, x228 x060 x032 xxxx	153	Manure
6	x228 x060 x037 xxxx	215	Manure
6P	x228 x060 x036 xxxx, x228 x060 x037 xxxx, x228 x060 x038 xxxx	89	None
7	x228 x060 x034 xxxx, x228 x060 x035 xxxx	152	Manure
			1,007

Production Area APN(s): x228 x240 x019 xxxx, x228 x240 x020 xxxx

P & M Dairy 2023
Lab Results Summary (Attachment E)

Process Wastewater

(mg/l/ppm unless noted otherwise)

Sample Date:	TKN	TP	TK	EC (umhos/cm)	NH4N	NO3N	TDS	pH (units)	General Minerals						
									CA	MG	NA	HCO3	CO3	SO4	CL
04/23/2023	1,160.00	229.00	1,120.00	10,800	423.00		5,500.00		631.00	264.00	361.00	5,190.00	0.00	8.20	588.00
09/07/2023	687.00	78.30	627.00	7,410	450.00	0.30	3,730.00	7.40							
12/04/2023	689.00	82.10	929.00	9,240	407.00		3,520.00								
Averages:	845.33	129.80	892.00	9,150	426.67	0.30	4,250.00	7.40	631.00	264.00	361.00	5,190.00	0.00	8.20	588.00

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
09/07/2023	2.06	0.33	0.90	16.61						%
Averages:	2.06	0.33	0.90	16.61						

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
1	1	Wheat	05/22/2023	25.60	5.60	29.40	67.78	6.90
1	2	Corn	09/18/2023	29.00	5.20	30.00	62.19	5.70
2	1	Wheat	05/22/2023	26.00	5.80	30.80	68.48	7.00
2	2	Corn	09/18/2023	25.40	11.20	28.40	64.26	5.50



P & M Dairy 2023
Lab Results Summary (Attachment E)

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
3	1	Wheat	05/22/2023	24.20	5.40	28.20	66.72	6.50
3	2	Corn	09/18/2023	26.60	4.00	37.20	65.87	6.60
4	1	Wheat	05/22/2023	26.60	5.80	28.60	67.60	6.90
4	2	Corn	12/04/2023	29.60	5.60	35.40	64.33	6.10
5	1	Wheat	05/22/2023	24.20	5.60	29.60	67.71	6.90
5	2	Corn	12/04/2023	28.80	5.00	34.40	65.18	5.70
6	1	Wheat	05/22/2023	24.00	5.80	31.00	68.10	6.90
6	2	Corn	12/04/2023	28.20	5.40	32.80	64.73	5.90
6P	1	Pistachios		119.80	13.60	149.80		BV-H
7	1	Wheat		11.00	1.70	8.30		BV-C
7	2	Corn	12/04/2023	27.80	4.80	28.60	65.73	5.40

BV-C: Book Value from Central Valley Regional Water Quality Control Board Website table prepared by Roland D. Meyer, UC Davis (As Received basis)

BV-H: Book Value from CCA Experience / Actual History (As Received basis)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals					
								CA	MG	NA	HCO3	CO3	SO4
Domestic													
Dom	12/06/2023	13.90		706	0.00								

P & M Dairy 2023
Lab Results Summary (Attachment E)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL	General Minerals
Domestic															
Averages:		13.90		706	0.00										
Irrigation															
IW1	09/06/2023	24.00		1,070											
IW2	12/12/2023	0.00		225											
IW3	12/12/2023	9.20		539											
IW4														Did not run.	
IW5	12/12/2023	8.80		827											
IW6														Did not run	
IW7	12/12/2023	14.20		904											
IW8	12/12/2023	8.90		811											
IW9														Did not run	
IW10	12/12/2023	19.80		1,060											
IW11	09/07/2023	23.80		1,080	0.00										
IW12	12/12/2023	31.50		1,190											
IW13														Did not run	
IW14														Did not run	
IW15														Did not run	
Averages:		15.58		856	0.00										



**P & M Dairy 2023
Lab Results Summary (Attachment E)**

* NH4N was non-detectable unless a value is shown

P & M Dairy 2023
Planting and Harvest Information (Attachment F)

Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 1							
	1 Wheat	102	11/16/2022	05/22/2023	17.9	1815.6	17.8
	2 Corn	102	06/15/2023	09/18/2023	29.8	3202.8	31.4
Field: 2							
	1 Wheat	76	11/14/2022	05/22/2023	17.9	1421.2	18.7
	2 Corn	76	06/16/2023	09/18/2023	29.9	2371.2	31.2
Field: 3							
	1 Wheat	74	11/16/2022	05/22/2023	17.7	1339.4	18.1
	2 Corn	74	06/06/2023	09/18/2023	29.4	2292.5	31.0
Field: 4							
	1 Wheat	146	11/16/2022	05/22/2023	18.0	2555.0	17.5
	2 Corn	146	06/07/2023	09/20/2023	30.0	4613.6	31.6
Field: 5							
	1 Wheat	153	11/12/2022	05/22/2023	17.8	2692.8	17.6
	2 Corn	153	06/12/2023	09/20/2023	30.2	4697.1	30.7
Field: 6							
	1 Wheat	215	11/13/2022	05/22/2023	18.1	3848.5	17.9
	2 Corn	215	06/11/2023	09/25/2023	30.3	6665.0	31.0
Field: 7							
	1 Wheat	152	11/17/2022	05/22/2023	18.0	2842.4	18.7
	2 Corn	152	06/15/2023	09/15/2023	30.2	4727.2	31.1



P & M Dairy 2023

Weather Data (Attachment G)

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	None	None	Light	None	None	None	None	None	None	None	None	None
2	Light	None	None	None	None	None	None	None	None	None	None	None
3	None	None	None	None	Light	None	None	None	None	None	None	None
4	Light	None	None	None	Light	None	None	None	None	None	None	None
5	Light	None	Light	None	None	None	None	None	None	None	None	None
6	None	None	None	None	None	None	None	None	None	None	None	None
7	None	None	None	None	None	None	None	None	None	None	None	None
8	None	None	None	None	None	None	None	None	None	None	None	None
9	SWP	None	Light	None	None	None	None	None	None	None	None	None
10	Light	None	SWP	None	None	None	None	None	None	None	None	None
11	None	None	None	None	None	None	None	None	None	None	None	None
12	None	None	None	None	None	None	None	None	None	None	None	None
13	None	None	None	None	None	None	None	None	None	None	None	None
14	Light	None	Heavy	None	None	None	None	None	None	None	None	None
15	Light	None	None	None	None	None	None	None	None	None	None	None
16	Heavy	None	None	None	None	None	None	None	None	None	None	None
17	None	None	None	None	None	None	None	None	None	None	None	None
18	None	None	None	None	None	None	None	None	None	None	Light	None
19	None	None	Light	None	None	None	None	Light	None	None	None	Light
20	None	None	None	None	None	None	None	Light	None	None	None	Heavy
21	None	None	Heavy	None	None	None	None	None	None	None	None	None
22	None	None	Light	None	None	None	None	None	None	Light	None	None
23	None	Light	None	None	None	None	None	None	None	None	None	None
24	None	SWP	None	None	None	None	None	None	None	None	None	None
25	None	Heavy	None	None	None	None	None	None	None	None	None	None
26	None	None	None	None	None	None	None	None	None	None	None	None
27	None	None	None	None	None	None	None	None	None	None	None	None
28	None	None	Light	None	None	None	None	None	None	None	None	None
29	Light		Light	None	None	None	None	None	None	None	None	None
30	None		None	None	None	None	None	None	None	None	None	Heavy
31	None		None		None		None	None		None		None

*Note: SWP = Standing Water Present

Manure/Process Wastewater Tracking Manifest

Instructions:

1. Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, **complete a separate form for each destination.**
3. The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4. The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Mike Vander Poel

Name of Dairy Facility: P & M Dairy

Facility Address:	<u>9535 Avenue 160</u>	<u>Tipton, CA</u>
	<u>Number and Street</u>	<u>93272</u>
	City	Zip Code

Contact Person Name and Phone Number:	<u>Mike Vander Poel</u>	<u>(559) 288-8717</u>
	Name	Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Cain Trucking, Inc.

Address of Hauling Company /Person:	<u>23004 Road 140</u>	<u>Tulare, CA</u>
	<u>Number and Street</u>	<u>93274</u>
	City	Zip Code

Contact Person:

<u>Name</u>	<u>Phone Number</u>
-------------	---------------------

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

<u>Cain Trucking, Inc.</u>	<u>23004 Road 140</u>	<u>Tulare, CA</u>	<u>(559) 288-8717</u>
<u>Name</u>	<u>Number and Street</u>	<u>93274</u>	<u>Phone Number</u>

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

<u>7559 Ave 152</u>	<u>Tipton, CA</u>	<u>93272</u>	
<u>Number and Street</u>	<u>City</u>	<u>Zip Code</u>	<u>Assessor's Parcel Number</u>

Dates Hauled: 10/14-15/2023



Innovative Ag Services, LLC
 1201 Delta View Road, Suite 5 Hanford, CA 93230
 Office (559) 587-2800 Fax (559) 587-2801

Amount Hauled:

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

Manure: 1350 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 83.39% Corral Solids

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (Please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

DocuSigned by:

Operator's Signature:  Date: 6/22/2024

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Hauler's Signature: See attached document. Date: _____



Innovative Ag Services, LLC
1201 Delta View Road, Suite 5 Hanford, CA 93230
Office (559) 587-2800 Fax (559) 587-2801

B N M < > ? Shift 1 2 3 Pg Dn Enter

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Information: For each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination. To obtain the signature of the hauler upon completion of each manure-hauling event.

Information: Submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Information:

Operator:

Name of Dairy Facility:

P & M Vander Poel - Ave. 160 & Rd. 96

Facility Address:

Number and Street

City

Zip Code

Contact Person Name:

Name

Phone Number

Manure/Process Wastewater Hauler Information:

Cain Trucking, Inc.

Name of Hauling Company/Person:

Address of Hauling Company /Person: 23004 Road 140 Tulare, 93274

Number and Street

City

Zip Code

Contact Person:

Name

Phone Number

Destination Information:

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

Contact information of : Composting Facility, Broker, Farmer, or Other (as identified above):

Cain Trucking, Inc. 23004 Road 140 Tulare, 93274

Name

Number and Street

City

Zip Code

Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

7559 Ave. 152 Tipton 93272

Number and Street

City

Zip Code

Assessor's Parcel Number

Dates Hauled: 10/14-15/2023

Amount Hauled:

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

> Manure: 1,350.00 Tons or Cubic Yards (Indicate which units used)

> Manure Moisture %: _____

> Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

> Process Wastewater: _____ Gallons

> Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party. (Operator shall provide initials here to acknowledge this requirement).

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Peter Borden

Date: 3/8/24

6/22/2024

Date: _____

Operator's Signature: *[Signature]*

DocuSigned by:

M. M. Borden

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Hauler's Signature: *[Signature]*

2023101714210002481 41215870421



Report of Dairy Well Water Analysis

P & M Dairy
17644 Road 80
Tulare CA 93274
00-0021340 08

Lab No.: 23I0571
Sampled By: Cindy Huerta
Requested By: Mike Vanderpoel
Submitted Date: 09/08/23
Reported Date: 09/12/23
Project:
Crop ID:

E-mail:
Copy To: cas.labs@yahoo.com

	Date Sampled	Time Sampled	EC $\mu\text{mhos/cm}$	EC mmhos/cm	NO ₃ -N mg/L	Field NH ₄ -N mg/L	Total NH ₄ -N mg/L	pH at 25°C unit
1 Irr Well #1 (Overhead)	9/6/23	16:35	1070	1.07	24	ND	7.9	

* = Field NH₄-N not Taken.

ND = None Detected

Approved By: Scott M. Friedland
Laboratory Director/Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02



P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:06

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0571-01	Irr Well #1 (<u>Overhead</u>)	Ground Water	Cindy Huerta		09/06/2023 16:35

Default Cooler Temperature on Receipt °C: 10.7
 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.
ES	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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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:06

Sample Results

Sample: Irr Well #1 (Overhead)
23I0571-01 (Water)

Sampled: 9/6/2023 16:35
Sampled By: Cindy Huerta

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.07	mmhos/cm	0.01	1		09/08/23 13:58	SM 2510 B		BEI0231
Electrical Conductivity umhos	1070	umhos/cm	10.0	1		09/08/23 13:58	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.00	1		09/06/23 16:35	Field		BEI0218
Nitrate Nitrogen as NO3N	24.0	mg/L	0.1	1	10	09/08/23 16:16	EPA 300.0		BEI0164
pH	7.9	units	1.0	1		09/08/23 13:58	SM 4500-H+	H	BEI0231
Temperature	25.0	°C	0.0	1		09/08/23 13:58	SM 2510 B		BEI0231

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



P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:06

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0164									
Blank (BEI0164-BLK1)					Prepared & Analyzed: 9/8/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEI0164-BLK2)					Prepared & Analyzed: 9/8/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEI0164-BLK3)					Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEI0164-BLK4)					Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEI0164-BS1)					Prepared & Analyzed: 9/8/2023				
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	104	90-110			
LCS (BEI0164-BS2)					Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	104	90-110			
LCS (BEI0164-BS3)					Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	5.5	0.1	mg/L	5.000	110	90-110			
Duplicate (BEI0164-DUP1)		Source: 23I0568-01			Prepared & Analyzed: 9/8/2023				
Nitrate Nitrogen as NO3N	2.9	0.1	mg/L	2.9			0.0345	10	
Duplicate (BEI0164-DUP2)		Source: 23I0568-03			Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	2.3	0.1	mg/L	2.3			1.03	10	
Duplicate (BEI0164-DUP3)		Source: 23I0568-02			Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	9.1	0.1	mg/L	8.9			1.61	10	
Matrix Spike (BEI0164-MS1)		Source: 23I0568-01			Prepared & Analyzed: 9/8/2023				
Nitrate Nitrogen as NO3N	8.2	0.1	mg/L	5.000	2.9	106	90-110		
Matrix Spike (BEI0164-MS2)		Source: 23I0568-03			Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	7.6	0.1	mg/L	5.000	2.3	106	90-110		
Matrix Spike (BEI0164-MS3)		Source: 23I0568-02			Prepared: 9/8/2023 Analyzed: 9/9/2023				
Nitrate Nitrogen as NO3N	14.2	0.1	mg/L	5.000	8.9	105	90-110		
Reference (BEI0164-SRM1)					Prepared & Analyzed: 9/8/2023				
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00		104	90-110		
Reference (BEI0164-SRM2)					Prepared & Analyzed: 9/8/2023				
Nitrate Nitrogen as NO3N	10.5		mg/L	10.00	105	90-110			

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:06

**Quality Control
(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEI0164 (Continued)

Reference (BEI0164-SRM3)		Prepared: 9/8/2023 Analyzed: 9/9/2023							
Nitrate Nitrogen as NO3N	10.5		mg/L	10.00		105	90-110		
Reference (BEI0164-SRM4)		Prepared: 9/8/2023 Analyzed: 9/9/2023							
Nitrate Nitrogen as NO3N	10.5		mg/L	10.00		105	90-110		

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:06

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231									
Blank (BEI0231-BLK1)									
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						
Blank (BEI0231-BLK2)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEI0231-BLK3)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.6	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEI0231-DUP1)									
Source: 23I0566-01 Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	0.30	0.01	mmhos/cm		0.30		0.732	10	
pH	8.4	1.0	units		8.4		0.119	10	
Electrical Conductivity umhos	300	10.0	umhos/cm		302		0.732	10	
Duplicate (BEI0231-DUP2)									
Source: 23I0569-01 Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	0.48	0.01	mmhos/cm		0.48		0.188	10	
pH	7.8	1.0	units		7.8		0.255	10	
Electrical Conductivity umhos	479	10.0	umhos/cm		480		0.188	10	
Reference (BEI0231-SRM1)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	517		umhos/cm		538.0		96.2	90-110	
Reference (BEI0231-SRM2)									
Prepared & Analyzed: 9/8/2023									
pH	5.8		units		5.820		99.8	28178-101.7	
Reference (BEI0231-SRM3)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	965		umhos/cm		1000		96.5	90-110	
Electrical Conductivity umhos	965		umhos/cm		1000		96.5	90-110	
Reference (BEI0231-SRM4)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	961		umhos/cm		1000		96.1	90-110	
Electrical Conductivity umhos	961		umhos/cm		1000		96.1	90-110	
Reference (BEI0231-SRM5)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	965		umhos/cm		1000		96.5	90-110	

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:06

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231 (Continued)									
Reference (BEI0231-SRM5)									
Electrical Conductivity umhos	965		umhos/cm	1000	Prepared & Analyzed: 9/8/2023	96.5	90-110		
Reference (BEI0231-SRM6)									
pH	4.0		units	4.000	Prepared & Analyzed: 9/8/2023	101	97.5-102.5		
Reference (BEI0231-SRM7)									
pH	4.0		units	4.000	Prepared & Analyzed: 9/8/2023	101	97.5-102.5		
Reference (BEI0231-SRM8)									
pH	4.0		units	4.000	Prepared & Analyzed: 9/8/2023	100	97.5-102.5		

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09/08/23 07:15

210571

MM

WATER WORK REQUESTBill To: Acct No: Cons:

Purchase Order No: _____ Results Needed By: _____

Client:
Address: City, State, Zip: Phone:

Cell/Email: _____

Copy to: Requested by:

Ranch: _____

Date sampled: Sampled by: QA/QC Document Copy of Chain RWQCB**DESCRIPTION OF SAMPLES**

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: _____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>Craig Fischer</i>	CAS	9/6/23 @ 4:35pm	9/7/23 @ 4:30pm
Second	<i>Ben Mydan</i>	OLI	9/7/23 4:30pm	
Third	<i>9/11</i>	O.H.	9/8 07:15	
Fourth				

I understand that as the client you are behalf of the chain of custody. Having the customer to oversee 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 necessary, to be liable for the action against me for the breach, negligence or attorney fees. It is understood that payment is required to be made for all samples taken that have been previously arranged. Terms are net 30 days, overdue amounts will be charged a daily charge of 1% per month or monthly 24.75% or \$7.00 per month whichever is greater.

It is agreed to handle what ever I request and to provide a written copy of the results or samples to DellaValle Laboratory, Inc. It will be submitted to the laboratory under the Rules and Procedures of DellaValle Laboratory, Inc. If the samples are not sent to the laboratory, they will be retained at the laboratory until the customer has arranged for it. However, the customer declines that no laboratory deposit exists, then there will be no charges and all expenses will be borne by the customer.

Invoicing Information:

Sampling Hrs			Shipping		
Miles	Consulting	\$	In	\$	Out
Ant Paid	Rec By	Check No.	Date		

Signature: _____

Sample received in cooler with ice?

 Yes No

09/08/23



P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:03

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0570-01	IW #11	Ag Water	V. Belo		09/07/2023 10:35

Default Cooler Temperature on Receipt °C: 2.1
 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

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:03

Sample Results

**Sample: IW #11
23I0570-01 (Water)**

Sampled: 9/7/2023 10:35

Sampled By: V. Belo

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.08	mmhos/cm	0.01	1		09/08/23 13:57	SM 2510 B		BEI0231
Electrical Conductivity umhos	1080	umhos/cm	10.0	1		09/08/23 13:57	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 10:35	Field		BEI0217
Nitrate Nitrogen as NO3N	23.8	mg/L	0.1	1	10	09/09/23 00:43	EPA 300.0		BEI0164
pH	7.7	units	1.0	1		09/08/23 13:57	SM 4500-H+	H	BEI0231
Temperature	25.0	°C	0.0	1		09/08/23 13:57	SM 2510 B		BEI0231

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:03

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit
Batch: BEI0164								
Blank (BEI0164-BLK1) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/8/2023			
Blank (BEI0164-BLK2) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/8/2023			
Blank (BEI0164-BLK3) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 9/8/2023 Analyzed: 9/9/2023			
Blank (BEI0164-BLK4) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 9/8/2023 Analyzed: 9/9/2023			
LCS (BEI0164-BS1) Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	Prepared & Analyzed: 9/8/2023	104	90-110	
LCS (BEI0164-BS2) Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	Prepared: 9/8/2023 Analyzed: 9/9/2023	104	90-110	
LCS (BEI0164-BS3) Nitrate Nitrogen as NO3N	5.5	0.1	mg/L	5.000	Prepared: 9/8/2023 Analyzed: 9/9/2023	110	90-110	
Duplicate (BEI0164-DUP1) Nitrate Nitrogen as NO3N	2.9	0.1	mg/L	2.9	Prepared & Analyzed: 9/8/2023		0.0345	10
Duplicate (BEI0164-DUP2) Nitrate Nitrogen as NO3N	2.3	0.1	mg/L	2.3	Prepared: 9/8/2023 Analyzed: 9/9/2023		1.03	10
Duplicate (BEI0164-DUP3) Nitrate Nitrogen as NO3N	9.1	0.1	mg/L	8.9	Prepared: 9/8/2023 Analyzed: 9/9/2023		1.61	10
Matrix Spike (BEI0164-MS1) Nitrate Nitrogen as NO3N	8.2	0.1	mg/L	5.000	Prepared & Analyzed: 9/8/2023	2.9	106	90-110
Matrix Spike (BEI0164-MS2) Nitrate Nitrogen as NO3N	7.6	0.1	mg/L	5.000	Prepared: 9/8/2023 Analyzed: 9/9/2023	2.3	106	90-110
Matrix Spike (BEI0164-MS3) Nitrate Nitrogen as NO3N	14.2	0.1	mg/L	5.000	Prepared: 9/8/2023 Analyzed: 9/9/2023	8.9	105	90-110
Reference (BEI0164-SRM1) Nitrate Nitrogen as NO3N	10.4		mg/L	10.00	Prepared & Analyzed: 9/8/2023	104	90-110	
Reference (BEI0164-SRM2) Nitrate Nitrogen as NO3N	10.5		mg/L	10.00	Prepared & Analyzed: 9/8/2023	105	90-110	

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:03

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEI0164 (Continued)

Reference (BEI0164-SRM3)		Prepared: 9/8/2023 Analyzed: 9/9/2023					
Nitrate Nitrogen as NO ₃ N	10.5		mg/L	10.00	105	90-110	
Reference (BEI0164-SRM4)		Prepared: 9/8/2023 Analyzed: 9/9/2023					
Nitrate Nitrogen as NO ₃ N	10.5		mg/L	10.00	105	90-110	

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:03

Quality Control (Continued)

Analyte	Result/Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231									
Blank (BEI0231-BLK1)									
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						
Blank (BEI0231-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEI0231-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.6	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEI0231-DUP1)									
Source: 23I0566-01									
Electrical Conductivity	0.30	0.01	mmhos/cm		0.30		0.732	10	
pH	8.4	1.0	units		8.4		0.119	10	
Electrical Conductivity umhos	300	10.0	umhos/cm		302		0.732	10	
Duplicate (BEI0231-DUP2)									
Source: 23I0569-01									
Electrical Conductivity	0.48	0.01	mmhos/cm		0.48		0.188	10	
pH	7.8	1.0	units		7.8		0.255	10	
Electrical Conductivity umhos	479	10.0	umhos/cm		480		0.188	10	
Reference (BEI0231-SRM1)									
Electrical Conductivity	517		umhos/cm		538.0	96.2	90-110		
Reference (BEI0231-SRM2)									
pH	5.8		units		5.820	99.8	28178-101.7:		
Reference (BEI0231-SRM3)									
Electrical Conductivity	965		umhos/cm		1000	96.5	90-110		
Electrical Conductivity umhos	965		umhos/cm		1000	96.5	90-110		
Reference (BEI0231-SRM4)									
Electrical Conductivity	961		umhos/cm		1000	96.1	90-110		
Electrical Conductivity umhos	961		umhos/cm		1000	96.1	90-110		
Reference (BEI0231-SRM5)									
Electrical Conductivity	965		umhos/cm		1000	96.5	90-110		

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 09/08/2023 7:15
Reported: 09/12/2023 12:03

Quality Control
(Continued)

Analyte	Result/Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231 (Continued)									
Reference (BEI0231-SRM5)					Prepared & Analyzed: 9/8/2023				
Electrical Conductivity umhos	965		umhos/cm	1000		96.5	90-110		
Reference (BEI0231-SRM6)					Prepared & Analyzed: 9/8/2023				
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEI0231-SRM7)					Prepared & Analyzed: 9/8/2023				
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEI0231-SRM8)					Prepared & Analyzed: 9/8/2023				
pH	4.0		units	4.000		100	97.5-102.5		

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09/08/23 07:15

2310570

WATER WORK REQUEST

Bill To: Acct No: Cons:

Purchase Order No. _____ Results Needed By _____

Client **P & M Dairy**
 Address 17644 Road 80
 City, State, Zip Tulare, CA 93274
 Phone Fax _____

Cell/Email _____

Copy to Cardoso Ag Sevices - cas.labs@yahoo.com

Requested by Pete Vanderpoel - (559) 901-5880

Ranch _____

Date sampled **9/7/23**

Sampled by **V. Beld**

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

- | | | |
|-----|---------------|---------------|
| 1. | JW #11 | 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 _____ 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, NO₃-N, NH₄-N Field Test)

(I) 1L plastic, unpreserved (white)

DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)

(I) 1L plastic, unpreserved (white)

DCW1: (EC, NO₃-N, TDS)

(I) 1L plastic, unpreserved (white)

DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)

(I) 1L plastic, unpreserved (white)

DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)

(I) 1L plastic, unpreserved (white)

Other

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
9/7/23	10:35am	0	21/04

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

JR Thermometer SN: 221511274

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	V. Beld	CAS INC	9/7/23 @ 10:35am	9/7/23 @ 1:30pm
Second	DLI	DLI	9/7/23 4:30pm	
Third				
Fourth	0 VI	0 VI	9/8 07:15	

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's 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 stated 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, 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:

			Shipping	
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

et update 2020



Report of Dairy Well Water Analysis

P & M Dairy
17644 Road 80
Tulare CA 93274
00-0021340 08

Lab No.: 23L0458
Sampled By: M. Pedroso
Requested By: Pete Vanderpoel
Submitted Date: 12/07/23
Reported Date: 12/13/23
Project:
Crop ID:

E-mail:
Copy To: cas.labs@yahoo.com

	Date Sampled	Time Sampled	EC $\mu\text{mhos/cm}$	EC mmhos/cm	Field NO ₃ -N mg/L	Total NH ₄ -N mg/L	pH at 25°C
1 DW# DOM	12/06/23	6:30	706	0.71	13.9	ND	7.3

* = Field NH₄-N not Taken.

ND = None Detected

Approved By:

Scott M Friedland
Laboratory Director\Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02



P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 12/07/2023 15:45
Reported: 12/13/2023 15:38

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0458-01	DW 8 Dom	Ag Water	M. Pedroso		12/06/2023 6:30

Default Cooler Temperature on Receipt °C: 1.3
 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.

A handwritten signature in black ink that reads "Scott M. Fricland".

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 12/07/2023 15:45
Reported: 12/13/2023 15:38

Sample Results

Sample: DW-~~118~~ Dom
23L0458-01 (Water)

Sampled: 12/6/2023 6:30
Sampled By: M. Pedroso

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.71	mmhos/cm	0.01	1		12/11/23 17:45	SM 2510 B		BEL0302
Electrical Conductivity umhos	706	umhos/cm	10.0	1		12/11/23 17:45	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 06:30	Field		BEL0487
Nitrate Nitrogen as NO3N	13.9	mg/L	0.1	1	10	12/08/23 03:50	EPA 300.0		BEL0243
Temperature	25.0	units	0.0	1		12/11/23 17:45	SM 4500-H+	H	BEL0302
pH	7.3	units	1.0	1		12/11/23 17:45	SM 4500-H+	H	BEL0302

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P & M Dairy
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Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 12/07/2023 15:45
Reported: 12/13/2023 15:38

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0243									
Blank (BEL0243-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/7/2023				
Blank (BEL0243-BLK2)					Prepared & Analyzed: 12/7/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0243-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/7/2023 Analyzed: 12/8/2023				
Blank (BEL0243-BLK4)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/7/2023 Analyzed: 12/8/2023				
LCS (BEL0243-BS1)					Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	4.7	0.1	mg/L	5.000		94.4	90-110		
LCS (BEL0243-BS2)					Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000		95.4	90-110		
LCS (BEL0243-BS3)					Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	5.6	0.1	mg/L	5.000		111	90-110		
Duplicate (BEL0243-DUP1)		Source: 23L0405-01			Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		ND				10
Duplicate (BEL0243-DUP2)		Source: 23L0412-04			Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		ND				10
Duplicate (BEL0243-DUP3)		Source: 23L0413-01			Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L	0.04				2.74	10
Matrix Spike (BEL0243-MS1)		Source: 23L0405-01			Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	4.7	0.1	mg/L	5.000	ND	94.1	90-110		
Matrix Spike (BEL0243-MS2)		Source: 23L0412-04			Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	ND	95.2	90-110		
Matrix Spike (BEL0243-MS3)		Source: 23L0413-01			Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.04	96.2	90-110		
Reference (BEL0243-SRM1)					Prepared & Analyzed: 12/7/2023				
Nitrate Nitrogen as NO3N	9.5		mg/L	10.00		94.8	90-110		
Reference (BEL0243-SRM2)					Prepared: 12/7/2023 Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	9.5		mg/L	10.00		95.2	90-110		

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 12/07/2023 15:45
Reported: 12/13/2023 15:38

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEL0243 (Continued)

Reference (BEL0243-SRM3) Nitrate Nitrogen as NO ₃ N	9.5				Prepared: 12/7/2023 Analyzed: 12/8/2023				
			mg/L	10.00		95.2	90-110		
Reference (BEL0243-SRM4) Nitrate Nitrogen as NO ₃ N	9.5				Prepared: 12/7/2023 Analyzed: 12/8/2023				
			mg/L	10.00		95.3	90-110		

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 12/07/2023 15:45
Reported: 12/13/2023 15:38

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0302									
Blank (BEL0302-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.7	1.0	units						
Blank (BEL0302-BLK2)									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.4	1.0	units						
Blank (BEL0302-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.4	1.0	units						
Duplicate (BEL0302-DUP1)									
Source: 23L0456-08									
Electrical Conductivity	0.74	0.01	mmhos/cm		0.73		1.20		10
pH	7.5	1.0	units		7.6		0.133		10
Electrical Conductivity umhos	739	10.0	umhos/cm		730		1.20		10
Duplicate (BEL0302-DUP2)									
Source: 23L0553-01									
Electrical Conductivity	5.41	0.01	mmhos/cm		5.37		0.668		10
Electrical Conductivity umhos	5410	10.0	umhos/cm		5370		0.668		10
pH	7.1	1.0	units		7.1		0.141		10
Reference (BEL0302-SRM1)									
Electrical Conductivity	434		umhos/cm		426.0		102		90-110
Reference (BEL0302-SRM2)									
pH	7.5		units		7.520		99.9		67021-101.3
Reference (BEL0302-SRM3)									
Electrical Conductivity	1040		umhos/cm		1000		104		90-110
Electrical Conductivity umhos	1040		umhos/cm		1000		104		90-110
Reference (BEL0302-SRM4)									
Electrical Conductivity	1040		umhos/cm		1000		104		90-110
Electrical Conductivity umhos	1040		umhos/cm		1000		104		90-110
Reference (BEL0302-SRM5)									
Electrical Conductivity	1040		umhos/cm		1000		104		90-110

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



P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Pete Vanderpoel

Received: 12/07/2023 15:45
Reported: 12/13/2023 15:38

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0302 (Continued)									
Reference (BEL0302-SRM5)									
Electrical Conductivity umhos	1040		umhos/cm	1000		104	90-110		
Reference (BEL0302-SRM6)									
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEL0302-SRM7)									
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEL0302-SRM8)									
pH	4.0		units	4.000		99.8	97.5-102.5		

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12/07/23 15:45

23L0458

SG

WATER WORK REQUEST

Acct No.	Cons.
Bill To: 21340	8

Purchase Order No. _____ Results Needed By _____

Client **P & M Dairy**
 Address 17644 Road 80
 City, State, Zip Tulare, CA 93274
 Phone Fax _____
 Cell/Email _____

Copy to Cardoso Ag Sevices - cas.labs@yahoo.com

Requested by Pete Vanderpoel - (559) 901-5880

Ranch _____

Date sampled **12/16/23**Sampled by **Mpednoso**

[X] QA/QC Document [X] Copy of Chain [] RWQCB

DESCRIPTION OF SAMPLES

1. DW RAB Dom	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:

DELLALVILLE 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
<input checked="" type="checkbox"/> Ag Water	[] Ground Water [] Mon. Well
[] Supply Water	[] Other

Analysis and Bottles Required: (Please Indicate Analysis)

- DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (I) 1L plastic, unpreserved (white)
- () DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (I) 1L plastic, unpreserved (white)
- () DCW1: (EC, NO₃-N, TDS)
 (I) 1L plastic, unpreserved (white)
- () DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (I) 1L plastic, unpreserved (white)
- () DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (I) 1L plastic, unpreserved (white)

() Other

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
12/16/23	6:30A	0	1.3
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

IR Thermometer SN: 221314357
 Correction Factor: 0°C
 Calibration Due: 03/06/2024
 Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Mpednoso	OMS Inc	12/16/23 6:30A	12/17/23 11A
Second	JLF	DLV	12/7/23 11:00	12/7/23 3:15
Third				
Fourth	VJ	DLT	12/7/23 15:45	

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's 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. (val). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through val 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:

			<i>Shipping</i>	
Sampling Hrs	Miles	Consulting	\$ _____	In
			\$ _____	Out
Amt Paid	Rec By	Check No.	Date	

Signature _____

Sample received in cooler with ice?

[] Yes [] No

edit/update 2020



Report of Dairy Well Water Analysis

P & M Dairy
17644 Road 80
Tulare CA 93274
00-0021340 08

Lab No.: 23L0852
Sampled By: M Vanderpoel
Requested By: Mike Vanderpoel
Submitted Date: 12/13/23
Reported Date: 12/20/23
Project:
Crop ID:

E-mail:
Copy To: cas.labs@yahoo.com

		Date Sampled	Time Sampled	EC $\mu\text{mhos/cm}$	EC mmhos/cm	$\text{NO}_3\text{-N}$ mg/L	Field $\text{NH}_4\text{-N}$ mg/L	Total $\text{NH}_4\text{-N}$ mg/L	pH at 25°C unit
1	IW #2	12/12/23	8:00	225	0.22	ND	ND	9.4	
2	IW #3	12/12/23	6:00	539	0.54	9.2	ND	7.8	
3	IW #5	12/12/23	9:30	827	0.83	8.8	ND	7.9	
4	IW #7	12/12/23	11:20	904	0.90	14.2	ND	8.0	
5	IW #8	12/12/23	7:00	811	0.81	8.9	ND	7.8	
6	IW #10	12/12/23	10:15	1060	1.06	19.8	ND	7.7	
7	IW #12	12/12/23	8:30	1190	1.19	31.5	ND	7.8	

* = Field $\text{NH}_4\text{-N}$ not Taken.

ND = None Detected

Approved By:

Laboratory Director/Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



12/13/23 15:34

23L0852

JG

WATER WORK REQUEST

Bill To: Acct No. Cons.

Purchase Order No. _____ Results Needed By _____

Client P & M Dairy
 Address 17644 Road 80
 City, State, Zip Tulare, CA 93274
 Phone Fax _____

Cell/Email _____

Copy to Cardoso Ag Sevices - cas.labs@yahoo.com

Requested by Mike Vanderpool - (559) 288-8717

Ranch _____

Date sampled 12/12/23

Sampled by m.vanderpool

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

1. IW#2 Sampled From: _____
2. IW#3 Sampled From: _____
3. IW#5 Sampled From: _____
4. IW#7 Sampled From: _____
5. IW#8 Sampled From: _____
6. IW#10 Sampled From: _____
7. IW#12 Sampled From: _____
8. _____ Sampled From: _____
9. _____ Sampled From: _____
10. _____ Sampled From: _____

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

Analysis and Bottles Required: (Please Indicate Analysis)

- DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (I) 1 L plastic, unpreserved (white)
- DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (I) 1 L plastic, unpreserved (white)
- DCW1: (EC, NO₃-N, TDS)
 (I) 1 L plastic, unpreserved (white)
- DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (I) 1 L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (I) 1 L plastic, unpreserved (white)
- Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
12/12/23	8pm	0	5.4
12/12/23	6pm	0	7.1
12/12/23	9:30pm	0	5.4
12/12/23	11:20p	0	5.9
12/12/23	7am	0	6.0
12/12/23	10:15A	0	3.7
12/12/23	8:30AM	0	4.7

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 03/06/2024

Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>m.vanderpool</u>	<u>P&M DRUM</u>	<u>12/12/23</u>	<u>12/12/23 8pm</u>
Second	<u>mpednso</u>	<u>CAS INC</u>	<u>12/12/23 9pm</u>	<u>12/12/23 11:00A</u>
Third	<u>JCF</u>	<u>DW</u>	<u>12/13/23 11:00</u>	<u>12/13/23 3:01</u>
Fourth	<u>JCF</u>	<u>DLI</u>	<u>12/13/23 15:34</u>	

I guarantee that as the client, or on behalf of the client, I have the authority to execute 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, financial attorney's fees. It is understood that payment is expected to be made with samples unless terms have been previously arranged. Terms are net 30 days, certain accounts will be charged a delinquent charge fee of 2% per month (minimum 24.50) or \$5.00 per month, whichever is greater. Payment is not made when due and a legal action is taken to collect the amount, the cost of collection, and expenses of collection, including attorney's fees, will be assessed to the client. All disputes will be submitted to arbitration under the rules and procedures of the American Arbitration Association. If, however, the mediator declines that an arbitration dispute exists, then either will pursue all remedies against the client, or, if the client declines, then the client will pursue all remedies against the mediator.

The client agrees that Dellavalle Laboratory, Inc. has the right to arbitrate disputes arising from or relating to this agreement, its terms, conditions, or the performance of this agreement, and that the client waives the right to a jury trial.

Invoicing Information:

Shipping			
Sampling Hrs	Miles	Consulting	\$ <u> </u> In \$ <u> </u> Out
<u> </u>	<u> </u>	<u> </u>	<u> </u>
Amt Paid	Rec By	Check No.	Date

Signature _____

Sample received in cooler with ice?

Yes No

01-06-2023



P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
Reported: 12/20/2023 15:03

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0852-01	IW #2	Ag Water	M Vanderpoel		12/12/2023 8:00
23L0852-02	IW #3	Ag Water	M Vanderpoel		12/12/2023 6:00
23L0852-03	IW #5	Ag Water	M Vanderpoel		12/12/2023 9:30
23L0852-04	IW #7	Ag Water	M Vanderpoel		12/12/2023 11:20
23L0852-05	IW #8	Ag Water	M Vanderpoel		12/12/2023 7:00
23L0852-06	IW #10	Ag Water	M Vanderpoel		12/12/2023 10:15
23L0852-07	IW #12	Ag Water	M Vanderpoel		12/12/2023 8:30

Default Cooler Temperature on Receipt °C: 5.4
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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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
Reported: 12/20/2023 15:03

Sample Results

Sample: IW #2 Sampled: 12/12/2023 8:00
23L0852-01 (Water) Sampled By: M Vanderpoel

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.22	mmhos/cm	0.01	1		12/14/23 19:44	SM 2510 B		BEL0659
Electrical Conductivity umhos	225	umhos/cm	10.0	1		12/14/23 19:44	SM 2510 B		BEL0659
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 08:00	Field		BEL0547
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/16/23 20:56	EPA 300.0		BEL0663
Temperature	25.0	units	0.0	1		12/14/23 19:44	SM 4500-H+	H	BEL0659
pH	9.4	units	1.0	1		12/14/23 19:44	SM 4500-H+	H	BEL0659

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
Reported: 12/20/2023 15:03

Sample: IW #3
23L0852-02 (Water)

Sampled: 12/12/2023 6:00
Sampled By: M Vanderpoel

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.54	mmhos/cm	0.01	1		12/14/23 19:46	SM 2510 B		BEL0659
Electrical Conductivity umhos	539	umhos/cm	10.0	1		12/14/23 19:46	SM 2510 B		BEL0659
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 06:00	Field		BEL0547
Nitrate Nitrogen as NO3N	9.2	mg/L	0.1	1	10	12/16/23 21:17	EPA 300.0		BEL0663
Temperature	25.0	units	0.0	1		12/14/23 19:46	SM 4500-H+	H	BEL0659
pH	7.8	units	1.0	1		12/14/23 19:46	SM 4500-H+	H	BEL0659

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
Reported: 12/20/2023 15:03

Sample: IW #5
23L0852-03 (Water)

Sampled: 12/12/2023 9:30
Sampled By: M Vanderpoel

Sample Results
(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.83	mmhos/cm	0.01	1		12/14/23 19:47	SM 2510 B		BEL0659
Electrical Conductivity umhos	827	umhos/cm	10.0	1		12/14/23 19:47	SM 2510 B		BEL0659
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 09:30	Field		BEL0547
Nitrate Nitrogen as NO3N	8.8	mg/L	0.1	1	10	12/16/23 21:37	EPA 300.0		BEL0663
Temperature	25.0	units	0.0	1		12/14/23 19:47	SM 4500-H+	H	BEL0659
pH	7.9	units	1.0	1		12/14/23 19:47	SM 4500-H+	H	BEL0659

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DELLAVALLE™
L A B O R A T O R Y I N C

P & M Dairy
 17644 Road 80
 Tulare, CA 93274

Account# 00-0021340
 Account Manager: Ben Nydam
 Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
 Reported: 12/20/2023 15:03

Sample: IW #7
23L0852-04 (Water)

Sampled: 12/12/2023 11:20
 Sampled By: M Vanderpoel

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.90	mmhos/cm	0.01	1		12/14/23 19:48	SM 2510 B		BEL0659
Electrical Conductivity umhos	904	umhos/cm	10.0	1		12/14/23 19:48	SM 2510 B		BEL0659
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 11:20	Field		BEL0547
Nitrate Nitrogen as NO3N	14.2	mg/L	0.1	1	10	12/16/23 19:37	EPA 300.0		BEL0664
Temperature	25.0	units	0.0	1		12/14/23 19:48	SM 4500-H+	H	BEL0659
pH	8.0	units	1.0	1		12/14/23 19:48	SM 4500-H+	H	BEL0659

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
Reported: 12/20/2023 15:03

Sample: IW #8
23L0852-05 (Water)

Sampled: 12/12/2023 7:00
Sampled By: M Vanderpoel

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.81	mmhos/cm	0.01	1		12/14/23 20:06	SM 2510 B		BEL0660
Electrical Conductivity umhos	811	umhos/cm	10.0	1		12/14/23 20:06	SM 2510 B		BEL0660
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 07:00	Field		BEL0547
Nitrate Nitrogen as NO3N	8.9	mg/L	0.1	1	10	12/16/23 21:58	EPA 300.0		BEL0663
Temperature	25.0	units	0.0	1		12/14/23 20:06	SM 4500-H+	H	BEL0660
pH	7.8	units	1.0	1		12/14/23 20:06	SM 4500-H+	H	BEL0660

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



P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
Reported: 12/20/2023 15:03

Sample Results (Continued)

**Sample: IW #10
23L0852-06 (Water)**

Sampled: 12/12/2023 10:15
Sampled By: M Vanderpoel

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.06	mmhos/cm	0.01	1		12/14/23 20:08	SM 2510 B		BEL0660
Electrical Conductivity umhos	1060	umhos/cm	10.0	1		12/14/23 20:08	SM 2510 B		BEL0660
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:15	Field		BEL0547
Nitrate Nitrogen as NO3N	19.8	mg/L	0.1	1	10	12/17/23 00:46	EPA 300.0		BEL0663
Temperature	25.0	units	0.0	1		12/14/23 20:08	SM 4500-H+	H	BEL0660
pH	7.7	units	1.0	1		12/14/23 20:08	SM 4500-H+	H	BEL0660

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P & M Dairy
17644 Road 80
Tulare, CA 93274

Account# 00-0021340
Account Manager: Ben Nydam
Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
Reported: 12/20/2023 15:03

Sample Results

(Continued)

Sample: IW #12

23L0852-07 (Water)

Sampled: 12/12/2023 8:30

Sampled By: M Vanderpoel

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.19	mmhos/cm	0.01	1		12/14/23 20:09	SM 2510 B		BEL0660
Electrical Conductivity umhos	1190	umhos/cm	10.0	1		12/14/23 20:09	SM 2510 B		BEL0660
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 08:30	Field		BEL0547
Nitrate Nitrogen as NO3N	31.5	mg/L	0.1	1	10	12/17/23 01:06	EPA 300.0		BEL0663
Temperature	25.0	units	0.0	1		12/14/23 20:09	SM 4500-H+	H	BEL0660
pH	7.8	units	1.0	1		12/14/23 20:09	SM 4500-H+	H	BEL0660

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DELLAVALLE™
 LABORATORY INC

P & M Dairy
 17644 Road 80
 Tulare, CA 93274

Account# 00-0021340
 Account Manager: Ben Nydam
 Submitted By: Mike Vanderpoel

Received: 12/13/2023 15:34
 Reported: 12/20/2023 15:03

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0659									
Blank (BEL0659-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
pH	5.5	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Prepared & Analyzed: 12/14/2023									
Blank (BEL0659-BLK2)									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Prepared & Analyzed: 12/14/2023									
Blank (BEL0659-BLK3)									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Prepared & Analyzed: 12/14/2023									
Duplicate (BEL0659-DUP1)									
Source: 23L0838-09									
Electrical Conductivity	1.04	0.01	mmhos/cm		1.03		0.618	10	
pH	7.2	1.0	units		7.2		0.695	10	
Electrical Conductivity umhos	1040	10.0	umhos/cm		1030		0.618	10	
Prepared & Analyzed: 12/14/2023									
Duplicate (BEL0659-DUP2)									
Source: 23L0852-04									
Electrical Conductivity	0.89	0.01	mmhos/cm		0.90		1.22	10	
pH	8.0	1.0	units		8.0		0.500	10	
Electrical Conductivity umhos	893	10.0	umhos/cm		904		1.22	10	
Prepared & Analyzed: 12/14/2023									
Reference (BEL0659-SRM1)									
Electrical Conductivity	429		umhos/cm		426.0	101	90-110		
Prepared & Analyzed: 12/14/2023									
Reference (BEL0659-SRM2)									
pH	7.5		units		7.520	100	67021-101.3:		
Prepared & Analyzed: 12/14/2023									
Reference (BEL0659-SRM3)									
Electrical Conductivity	1020		umhos/cm		1000	102	90-110		
Electrical Conductivity umhos	1020		umhos/cm		1000	102	90-110		
Prepared & Analyzed: 12/14/2023									
Reference (BEL0659-SRM4)									
Electrical Conductivity	1050		umhos/cm		1000	105	90-110		
Electrical Conductivity umhos	1050		umhos/cm		1000	105	90-110		
Prepared & Analyzed: 12/14/2023									
Reference (BEL0659-SRM5)									
Electrical Conductivity	1030		umhos/cm		1000	103	90-110		
Prepared & Analyzed: 12/14/2023									

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<i>Batch: BEL0659 (Continued)</i>									
Reference (BEL0659-SRM5)									
Electrical Conductivity umhos	1030		umhos/cm	1000	103	90-110			
Reference (BEL0659-SRM6)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEL0659-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEL0659-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0660									
Blank (BEL0660-BLK1)									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.4	1.0	units						
Blank (BEL0660-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.9	1.0	units						
Blank (BEL0660-BLK3)									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.6	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEL0660-DUP1)									
Source: 23L0860-03									
Electrical Conductivity	0.24	0.01	mmhos/cm		0.24		0.750	10	
pH	9.0	1.0	units		9.0		0.111	10	
Electrical Conductivity umhos	241	10.0	umhos/cm		239		0.750	10	
Duplicate (BEL0660-DUP2)									
Source: 23L0863-01									
Electrical Conductivity	0.58	0.01	mmhos/cm		0.58		0.933	10	
Electrical Conductivity umhos	582	10.0	umhos/cm		576		0.933	10	
pH	7.6	1.0	units		7.6		0.396	10	
Reference (BEL0660-SRM1)									
Electrical Conductivity	428		umhos/cm		426.0	101	90-110		
Reference (BEL0660-SRM2)									
pH	7.5		units		7.520	100	67021-101.3:		
Reference (BEL0660-SRM3)									
Electrical Conductivity	1020		umhos/cm		1000	102	90-110		
Electrical Conductivity umhos	1020		umhos/cm		1000	102	90-110		
Reference (BEL0660-SRM4)									
Electrical Conductivity	1040		umhos/cm		1000	104	90-110		
Electrical Conductivity umhos	1040		umhos/cm		1000	104	90-110		
Reference (BEL0660-SRM5)									
Electrical Conductivity	1030		umhos/cm		1000	103	90-110		

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Tulare, CA 93274

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Submitted By: Mike Vanderpoel

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Reported: 12/20/2023 15:03

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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Batch: BEL0660 (Continued)

Reference (BEL0660-SRM5)

Electrical Conductivity umhos Prepared & Analyzed: 12/14/2023

Electrical Conductivity umhos	1030	umhos/cm	1000	103	90-110
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Reference (BEL0660-SRM6)

pH Prepared & Analyzed: 12/14/2023

pH	4.0	units	4.000	101	97.5-102.5
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Reference (BEL0660-SRM7)

pH Prepared & Analyzed: 12/14/2023

pH	4.0	units	4.000	101	97.5-102.5
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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0663									
Blank (BEL0663-BLK1) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/16/2023				
Blank (BEL0663-BLK2) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/16/2023				
Blank (BEL0663-BLK3) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/16/2023 Analyzed: 12/17/2023				
Blank (BEL0663-BLK4) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/16/2023 Analyzed: 12/17/2023				
Blank (BEL0663-BLK5) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/16/2023 Analyzed: 12/17/2023				
LCS (BEL0663-BS1) Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000	91.5	90-110	Prepared & Analyzed: 12/16/2023		
LCS (BEL0663-BS2) Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000	93.0	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023		
LCS (BEL0663-BS3) Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000	91.6	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023		
LCS (BEL0663-BS4) Nitrate Nitrogen as NO3N	4.6	0.1	mg/L	5.000	91.7	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023		
Duplicate (BEL0663-DUP1) Nitrate Nitrogen as NO3N	0.06	0.1	mg/L	0.06		0.00	Prepared & Analyzed: 12/16/2023	10	
Duplicate (BEL0663-DUP2) Nitrate Nitrogen as NO3N	1.9	0.1	mg/L	1.8		1.56	Prepared: 12/16/2023 Analyzed: 12/17/2023	10	
Duplicate (BEL0663-DUP3) Nitrate Nitrogen as NO3N	1.8	0.1	mg/L	1.9		1.84	Prepared: 12/16/2023 Analyzed: 12/17/2023	10	
Duplicate (BEL0663-DUP4) Nitrate Nitrogen as NO3N	4.0	0.1	mg/L	3.9		1.37	Prepared: 12/16/2023 Analyzed: 12/17/2023	10	
Matrix Spike (BEL0663-MS1) Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	0.06	97.4	Prepared & Analyzed: 12/16/2023	90-110	
Matrix Spike (BEL0663-MS2) Nitrate Nitrogen as NO3N	6.8	0.1	mg/L	5.000	1.8	99.4	Prepared: 12/16/2023 Analyzed: 12/17/2023	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
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Batch: BEL0663 (Continued)

Matrix Spike (BEL0663-MS3) Nitrate Nitrogen as NO ₃ N	Source: 23L0860-09 6.8	Prepared: 12/16/2023 Analyzed: 12/17/2023 0.1 mg/L 5.000 1.9 98.6 90-110
Matrix Spike (BEL0663-MS4) Nitrate Nitrogen as NO ₃ N	Source: 23L0884-01 8.9	Prepared: 12/16/2023 Analyzed: 12/17/2023 0.1 mg/L 5.000 3.9 98.8 90-110
Reference (BEL0663-SRM1) Nitrate Nitrogen as NO ₃ N	9.8	Prepared & Analyzed: 12/16/2023 mg/L 10.00 97.6 90-110
Reference (BEL0663-SRM2) Nitrate Nitrogen as NO ₃ N	9.7	Prepared: 12/16/2023 Analyzed: 12/17/2023 mg/L 10.00 97.0 90-110
Reference (BEL0663-SRM3) Nitrate Nitrogen as NO ₃ N	9.6	Prepared: 12/16/2023 Analyzed: 12/17/2023 mg/L 10.00 96.5 90-110
Reference (BEL0663-SRM4) Nitrate Nitrogen as NO ₃ N	9.8	Prepared: 12/16/2023 Analyzed: 12/17/2023 mg/L 10.00 97.8 90-110
Reference (BEL0663-SRM5) Nitrate Nitrogen as NO ₃ N	9.7	Prepared: 12/16/2023 Analyzed: 12/17/2023 mg/L 10.00 97.0 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
Batch: BEL0664									
Blank (BEL0664-BLK1) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/16/2023				
Blank (BEL0664-BLK2) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/16/2023				
Blank (BEL0664-BLK3) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/16/2023 Analyzed: 12/17/2023				
Blank (BEL0664-BLK4) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/16/2023 Analyzed: 12/17/2023				
Blank (BEL0664-BLK5) Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/16/2023 Analyzed: 12/17/2023				
LCS (BEL0664-BS1) Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	Prepared & Analyzed: 12/16/2023	104	90-110		
LCS (BEL0664-BS2) Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	Prepared: 12/16/2023 Analyzed: 12/17/2023	100	90-110		
LCS (BEL0664-BS3) Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	Prepared: 12/16/2023 Analyzed: 12/17/2023	102	90-110		
LCS (BEL0664-BS4) Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	Prepared: 12/16/2023 Analyzed: 12/17/2023	103	90-110		
Duplicate (BEL0664-DUP1) Nitrate Nitrogen as NO3N	3.8	0.1	mg/L	3.7	Prepared & Analyzed: 12/16/2023			0.802	10
Duplicate (BEL0664-DUP2) Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.2	Prepared: 12/16/2023 Analyzed: 12/17/2023			0.155	10
Duplicate (BEL0664-DUP3) Nitrate Nitrogen as NO3N	1.0	0.1	mg/L	1.0	Prepared: 12/16/2023 Analyzed: 12/17/2023			0.305	10
Duplicate (BEL0664-DUP4) Nitrate Nitrogen as NO3N	1.3	0.1	mg/L	1.3	Prepared: 12/16/2023 Analyzed: 12/17/2023			1.68	10
Matrix Spike (BEL0664-MS1) Nitrate Nitrogen as NO3N	8.8	0.1	mg/L	5.000	Prepared & Analyzed: 12/16/2023	3.7	90-110		
Matrix Spike (BEL0664-MS2) Nitrate Nitrogen as NO3N	10.2	0.1	mg/L	5.000	Prepared: 12/16/2023 Analyzed: 12/17/2023	5.2	90-110		

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Received: 12/13/2023 15:34
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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEL0664 (Continued)

Matrix Spike (BEL0664-MS3) Nitrate Nitrogen as NO3N	Source: 23L0984-02 6.2	0.1	mg/L	5.000	1.0	104	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023	
Matrix Spike (BEL0664-MS4) Nitrate Nitrogen as NO3N	Source: 23L0984-03 6.5	0.1	mg/L	5.000	1.3	103	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023	
Reference (BEL0664-SRM1) Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110	Prepared & Analyzed: 12/16/2023	
Reference (BEL0664-SRM2) Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023	
Reference (BEL0664-SRM3) Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023	
Reference (BEL0664-SRM4) Nitrate Nitrogen as NO3N	10.3		mg/L	10.00		103	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023	
Reference (BEL0664-SRM5) Nitrate Nitrogen as NO3N	10.4		mg/L	10.00		104	90-110	Prepared: 12/16/2023 Analyzed: 12/17/2023	

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12/13/23 15:34

23L0852

JG

WATER WORK REQUESTBill To: Acct No. Cons.

Purchase Order No. _____ Results Needed By _____

Client P & M Dairy
 Address 17644 Road 80
 City, State, Zip Tulare, CA 93274
 Phone _____ Fax _____

Cell/Email _____

Copy to Cardoso Ag Sevices - cas.labs@yahoo.comRequested by Mike Vanderpoel - (559) 288-8717

Ranch _____

Date sampled 12/12/23Sampled by m.vanderpoel

[X] QA/QC Document [X] Copy of Chain [] RWQCB

DESCRIPTION OF SAMPLES

1. IW#2 Sampled From: _____
 2. IW#3 Sampled From: _____
 3. IW#5 Sampled From: _____
 4. IW#7 Sampled From: _____
 5. IW#8 Sampled From: _____
 6. IW#10 Sampled From: _____
 7. IW#12 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	No. Bottles
<input type="checkbox"/> Water Type:	<input type="checkbox"/> Drinking <input type="checkbox"/> Wastewater
<input checked="" type="checkbox"/> Ag Water	<input type="checkbox"/> Ground Water <input type="checkbox"/> Mon. Well
<input type="checkbox"/> Supply Water	<input type="checkbox"/> Other

Analysis and Bottles Required: (Please Indicate Analysis)

- DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (I) 1 L plastic, unpreserved (white)
- DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (I) 1 L plastic, unpreserved (white)
- DCW1: (EC, NO₃-N, TDS)
 (I) 1 L plastic, unpreserved (white)
- DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (I) 1 L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (I) 1 L plastic, unpreserved (white)

[] Other	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
	<u>12/12/23</u>	<u>8pm</u>	<u>D</u>	<u>5.4</u>
	<u>12/12/23</u>	<u>11mm</u>	<u>D</u>	<u>7.1</u>
	<u>12/12/23</u>	<u>1330pm</u>	<u>D</u>	<u>5.4</u>
	<u>12/12/23</u>	<u>1120p</u>	<u>D</u>	<u>5.9</u>
	<u>12/12/23</u>	<u>7pm</u>	<u>D</u>	<u>6.0</u>
	<u>12/12/23</u>	<u>1015A</u>	<u>D</u>	<u>3.7</u>
	<u>12/12/23</u>	<u>830Am</u>	<u>D</u>	<u>4.7</u>

IR Thermometer SN: 200560723
 Correction Factor: 0°C
 Calibration Due: 03/06/2024
 Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>m.vanderpoel</u>	<u>P&M Dairies</u>	<u>12/12/23</u>	<u>12/12/23 8pm</u>
Second	<u>M.P.D.H.S.C.</u>	<u>CAS INC</u>	<u>12/12/23 5pm</u>	<u>12/13/23 11:10A</u>
Third	<u>JLF</u>	<u>DLL</u>	<u>12/13/23 11:00</u>	<u>12/13/23 3:01</u>
Fourth	<u>JLG</u>	<u>DLL</u>	<u>12/13/23 15:34</u>	

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 attorneys' 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 defenor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

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

Signature _____

Sample received in cooler with ice?

[] Yes [] No

edit/update 2020