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INNOVATIVE
AG SERVICES

VP FARMS

2023 Annual Report

X	Report Form	NA	Attachment H
X	Attachment A	NA	Attachment I
X	Attachment B	NA	Attachment J
X	Attachment C	X	Manure Tracking Manifests
X	Attachment D	NA	New or Revised Waste Water Agreements
X	Attachment E	X	Groundwater Monitoring Samples
X	Attachment F	NA	Monitoring Well Report
X	Attachment G	NA	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)

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Annual Report

VP Farms Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	VP Farms Dairy
Facility Address	15503 Road 96, 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:

X No discharges occurred during the reporting period.

__ Yes. ____ Number of discharges occurred (see Attachment H).

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VP Farms Dairy 2023

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:

X 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:

X 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.

X 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.

X 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.

X 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).

X 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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VP Farms Dairy 2023

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

X 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

X 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...	DocuSigned by: 45C24966B4F94B0...
Signature of Operator of Facility	Signature of Owner of Facility
Mike Vander Poel	Paula & Mike Vander Poel
Print Name	Print Name
6/22/2024	6/22/2024
Title and Date	Title and Date

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VP Farms 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 Net (LB) Available for Land Application	PHOSPHORUS Net (LB) Available for Land Application	POTASSIUM Net (LB) Available for Land Application	SALTS Net (LB) Available for Land Application
Hol Milk Cows	822	801	Milk Freestall - SB	1,400	20,328.49	289,441.35	49,702.05	67,243.95	528,011.19
Hol Milk Cows	725	706	Milk Flushed Lane	1,400	17,917.49	255,113.10	43,807.30	59,268.70	465,388.14
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)	860	838	Flushed	1,000	8,747.48	116,230.60	18,352.20	55,056.60	215,821.87
	2,627	**2,559**			**50,116.18**	**699,840.05**	**117,329.25**	**207,345.55**	**1,264,335.62**

* 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)**
16,990,446	1,326.00	313.38	884.25	3,442.50	187,669.33	44,352.09	125,148.27	487,218.44

* 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).

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VP Farms Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Wheat, 101 Acres Planted on 11/18/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	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			%			1,414				
03/11/2023	Surface Water: Lower Tule	5.60	Acre Inches		0.00			mg/L			0	0	0	5,118	
03/11/2023	Waste Water: Main Lagoon	0.50	Acre Inches		1,050.00	195.00	1,120.0	mg/L		1,371,292	11,994	2,227	12,794	61,684	
04/13/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	5,483	
04/13/2023	Waste Water: Main Lagoon	0.25	Acre Inches		1,050.00	195.00	1,120.0	mg/L		685,646	5,997	1,114	6,396	30,841	
05/22/2023	Harvest	18.40	Tons	69.54	1.26	0.28	1.61	%							14,265
	Acre Inches Applied:	**12.35**						**Totals:**		**2,056,938**	**19,405**	**3,341**	**19,190**	**103,126**	**14,265**
Season Nitrogen Ratio:	1.36							**Lbs Per Acre:**			**192**	**33**	**190**	**1,021**	**141**

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VP Farms Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Corn, 101 Acres Planted on 06/22/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/02/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	4,113	
06/02/2023	Waste Water: Main Lagoon	0.45	Acre Inches		1,050.00	195.00	1,120.0	mg/L		1,234,163	10,795	2,005	11,514	55,515	
07/10/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	4,569	
07/22/2023	Surface Water: Lower Tule	5.20	Acre Inches		0.00			mg/L			0	0	0	4,752	
07/22/2023	Waste Water: Main Lagoon	0.65	Acre Inches		627.00	86.50	653.00	mg/L		1,782,680	9,311	1,285	9,697	40,094	
08/14/2023	Surface Water: Lower Tule	5.35	Acre Inches		0.00			mg/L			0	0	0	4,889	
08/24/2023	Surface Water: Lower Tule	5.20	Acre Inches		0.00			mg/L			0	0	0	4,752	
09/12/2023	Surface Water: Lower Tule	5.30	Acre Inches		0.00			mg/L			0	0	0	4,843	
09/12/2023	Waste Water: Main Lagoon	0.65	Acre Inches		627.00	86.50	653.00	mg/L		1,782,680	9,311	1,285	9,697	40,094	
09/23/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	4,113	
10/14/2023	Harvest	29.80	Tons	65.35	1.53	0.27	1.74	%							31,913
	Acre Inches Applied:	**36.80**						**Totals:**		**4,799,523**	**29,417**	**4,574**	**30,908**	**167,734**	**31,913**
Season Nitrogen Ratio:	0.92							**Lbs Per Acre:**			**291**	**45**	**306**	**1,661**	**316**

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VP Farms Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 76 Acres Planted on 11/20/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	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			%			1,064				
03/13/2023	Surface Water: Lower Tule	5.70	Acre Inches		0.00			mg/L			0	0	0	3,919	
03/13/2023	Waste Water: Main Lagoon	0.40	Acre Inches		1,050.00	195.00	1,120.0	mg/L		825,491	7,220	1,341	7,702	37,132	
04/14/2023	Surface Water: Lower Tule	5.90	Acre Inches		0.00			mg/L			0	0	0	4,057	
04/14/2023	Waste Water: Main Lagoon	0.25	Acre Inches		1,050.00	195.00	1,120.0	mg/L		515,932	4,513	838	4,813	23,207	
05/22/2023	Harvest	19.20	Tons	70.13	1.18	0.28	1.63	%							10,287
	Acre Inches Applied:	**12.25**						**Totals:**		**1,341,422**	**12,797**	**2,179**	**12,515**	**68,316**	**10,287**
Season Nitrogen Ratio:	1.24							**Lbs Per Acre:**			**168**	**29**	**165**	**899**	**135**

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VP Farms Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 3

Corn, 76 Acres Planted on 06/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/05/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	3,095	
06/05/2023	Waste Water: Main Lagoon	0.45	Acre Inches		1,050.00	195.00	1,120.0	mg/L		928,677	8,123	1,509	8,664	41,773	
07/12/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,438	
07/24/2023	Surface Water: Lower Tule	4.80	Acre Inches		0.00			mg/L			0	0	0	3,301	
07/24/2023	Waste Water: Main Lagoon	0.65	Acre Inches		627.00	86.50	653.00	mg/L		1,341,422	7,006	967	7,297	30,170	
08/15/2023	Surface Water: Lower Tule	5.35	Acre Inches		0.00			mg/L			0	0	0	3,679	
08/27/2023	Surface Water: Lower Tule	5.20	Acre Inches		0.00			mg/L			0	0	0	3,576	
09/14/2023	Surface Water: Lower Tule	4.75	Acre Inches		0.00			mg/L			0	0	0	3,266	
09/14/2023	Waste Water: Main Lagoon	0.65	Acre Inches		627.00	86.50	653.00	mg/L		1,341,422	7,006	967	7,297	30,170	
09/26/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	3,095	
10/14/2023	Harvest	31.30	Tons	64.06	1.42	0.27	1.65	%							24,280
	Acre Inches Applied:	**35.85**						**Totals:**		**3,611,522**	**22,136**	**3,442**	**23,258**	**125,563**	**24,280**
Season Nitrogen Ratio:	0.91							**Lbs Per Acre:**			**291**	**45**	**306**	**1,652**	**319**

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VP Farms Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Wheat, 72 Acres Planted on 11/20/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	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			%			1,008				
03/17/2023	Surface Water: Lower Tule	5.60	Acre Inches		0.00			mg/L			0	0	0	3,648	
03/17/2023	Waste Water: Main Lagoon	0.50	Acre Inches		1,050.00	195.00	1,120.0	mg/L		977,555	8,550	1,588	9,120	43,973	
04/20/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	3,909	
04/20/2023	Waste Water: Main Lagoon	0.40	Acre Inches		1,050.00	195.00	1,120.0	mg/L		782,044	6,840	1,270	7,296	35,178	
05/22/2023	Harvest	20.00	Tons	69.13	1.32	0.30	1.58	%							11,735
	Acre Inches Applied:	**12.50**						**Totals:**		**1,759,599**	**16,398**	**2,858**	**16,417**	**86,707**	**11,735**
Season Nitrogen Ratio:	1.40							**Lbs Per Acre:**			**228**	**40**	**228**	**1,204**	**163**

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VP Farms Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Corn, 72 Acres Planted on 06/21/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/07/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	2,932	
06/07/2023	Waste Water: Main Lagoon	0.45	Acre Inches		1,050.00	195.00	1,120.0	mg/L		879,799	7,695	1,429	8,208	39,575	
07/14/2023	Surface Water: Lower Tule	5.10	Acre Inches		0.00			mg/L			0	0	0	3,322	
07/28/2023	Surface Water: Lower Tule	5.20	Acre Inches		0.00			mg/L			0	0	0	3,388	
07/28/2023	Waste Water: Main Lagoon	0.65	Acre Inches		627.00	86.50	653.00	mg/L		1,270,821	6,638	916	6,913	28,582	
08/17/2023	Surface Water: Lower Tule	5.20	Acre Inches		0.00			mg/L			0	0	0	3,388	
08/28/2023	Surface Water: Lower Tule	5.30	Acre Inches		0.00			mg/L			0	0	0	3,452	
09/15/2023	Surface Water: Lower Tule	5.30	Acre Inches		0.00			mg/L			0	0	0	3,452	
09/15/2023	Waste Water: Main Lagoon	0.65	Acre Inches		627.00	86.50	653.00	mg/L		1,270,821	6,638	916	6,913	28,582	
09/27/2023	Surface Water: Lower Tule	4.40	Acre Inches		0.00			mg/L			0	0	0	2,866	
10/14/2023	Harvest	31.30	Tons	65.20	1.47	0.25	1.71	%							23,057
	Acre Inches Applied:	**36.75**						**Totals:**		**3,421,442**	**20,971**	**3,261**	**22,033**	**119,539**	**23,057**
Season Nitrogen Ratio:	0.91							**Lbs Per Acre:**			**291**	**45**	**306**	**1,660**	**320**

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VP Farms Dairy 2023

Nutrient Applications (Attachment B)

Summary of Nutrient Applications, Removal, and Balance

	Total N (Lbs)	Total P (Lbs)	Total K (Lbs)	Total Salts (Lbs)	Total Manure Applied	
Solid Manure	0.00	0.00	0.00	0.00		tons
Process Wastewater	117,637.75	19,654.89	124,320.62	566,568.76	16,990,445.51	gallons
Irrigation Water	0.00					
Fertilizer / Total Imports	0.00					
Atmospheric Deposition	3,486.00					
Total Nitrogen Applied	**121,123.75**					
Crop Nitrogen Removal	115,537.85					
Nitrogen Balance	**5,585.90**					
Nitrogen Ratio	**1.05**					

- **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.**

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VP Farms 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

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VP Farms 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)**
2,520	30,337.37	9,817.92	6,578.01	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 (N03-N or TKN, P, K, TDS) x 10-6 using the samples closest in date to the export event.

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VP Farms Dairy 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x228 x240 x012 xxxx	101	Process Wastewater
3	x228 x240 x015 xxxx	76	Process Wastewater
4	x228 x240 x015 xxxx	72	Process Wastewater
		249	

Production Area APN(s): x228 x240 x012 xxxx

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VP Farms Dairy 2023

Lab Results Summary (Attachment E)

Process Wastewater

(mgl/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
04/25/2023	1,050.00	195.00	1,120.00	108,000	384.00	1.00	5,400.00	7.40							
09/07/2023	627.00	86.50	653.00	8,060	460.00	0.50	2,700.00	7.30							
09/07/2023	677.00	130.00	584.00	7,450	414.00	0.50	1,870.00	7.20							
12/14/2023	2,950.00	842.00	1,180.00	9,020	663.00	0.00	3,800.00	7.10							
Averages:	1,326.00	313.38	884.25	33,132	480.25	0.50	3,442.50	7.25							

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
09/07/2023	3.09	1.00	0.67	80.52						%
Averages:	3.09	1.00	0.67	80.52						

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	25.20	5.60	32.20	69.54	7.50
1	2	Corn	12/04/2023	30.60	5.40	34.80	65.35	6.00
3	1	Wheat	05/22/2023	23.60	5.60	32.60	70.13	7.10

INNOVATIVE AG SERVICES

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VP Farms 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	2	Corn	12/04/2023	28.40	5.40	33.00	64.06	6.10
4	1	Wheat	05/22/2023	26.40	6.00	31.60	69.13	7.10
4	2	Corn	12/04/2023	29.40	5.00	34.20	65.20	5.70

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals CA	MG	NA	HCO3	CO3	SO4	CL
Domestic														
Dom	12/06/2023	27.30		1,120	0.00									
	Averages:	27.30		1,120	0.00									
Irrigation														
IW 1	12/12/2023	28.10		1,080	0.00									
IW 2	12/12/2023	21.50		1,260	0.00									
IW 13	12/12/2023	28.10		1,080	0.00									
	Averages:	25.90		1,140	0.00									

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VP Farms Dairy 2023

Lab Results Summary (Attachment E)

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

								General Minerals						
	Sample Date:	**NO3N**	**TP**	**EC (umhos/cm)**	**NH4N ***	**TDS**	**TN**	**CA**	**MG**	**NA**	**HCO3**	**CO3**	**SO4**	**CL**
Surface Water														
Lower Tule (General)	06/28/2023	0.00		52		40.00	0.00							
	Averages:	0.00		52		40.00	0.00							

* NH4N was non-detectable unless a value is shown

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VP Farms 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	101	11/18/2022	05/22/2023	18.0	1858.4	18.4
	2	Corn	101	06/22/2023	10/14/2023	30.0	3009.8	29.8
Field: 3								
	1	Wheat	76	11/20/2022	05/22/2023	18.0	1459.2	19.2
	2	Corn	76	06/23/2023	10/14/2023	30.0	2378.8	31.3
Field: 4								
	1	Wheat	72	11/20/2022	05/22/2023	18.0	1440.0	20.0
	2	Corn	72	06/21/2023	10/14/2023	30.0	2253.6	31.3

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VP Farms Dairy 2023

Weather Data (Attachment G)

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	Light	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	None	None	None	None	None	None	None	None
4	Light	None	None	None	Light	None	None	None	None	None	None	None
5	Heavy	Light	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	SWP	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	Heavy	None	SWP	None	None	None	None	None	None	None	None	None
15	Light	None	Heavy	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	None	None
19	None	None	Light	None	None	None	None	Light	None	None	None	None
20	None	None	None	None	None	None	None	SWP	None	None	None	None
21	None	None	SWP	None	None	None	None	None	None	None	None	None
22	None	Light	Light	None	None	None	None	None	None	None	None	None
23	None	None	None	None	None	None	None	None	None	Heavy	None	None
24	None	SWP	None	None	None	None	None	None	None	None	None	None
25	None	SWP	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	Light	None	None	None	None	None	None	None	None	None	None
28	None	Heavy	Light	None	None	None	None	None	None	None	None	None
29	Light		Heavy	None	None	None	None	None	None	None	None	None
30	None		Light	None	None	None	None	None	None	None	None	Light
31	None		None		None		None	None		None		None

*Note: SWP = Standing Water Present

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ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

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 and Paula Vander Poel

Name of Dairy Facility: VP Farms Dairy

Facility Address: 15503 Road 96 (Number and Street) Tipton, CA (City) 93272 (Zip Code)

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

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Aves Ag Services Inc.

Address of Hauling Company /Person: 2407 Ave 199 (Number and Street) Tulare, CA (City) 93274 (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):

Mendes Custom Calf Raising (Name) 13356 Avenue 168 (Number and Street) Tipton, CA (City) 93272 (Zip Code) _____ (Phone Number)

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

_____ (Number and Street) _____ (City) _____ (Zip Code) _____ (Assessor's Parcel Number)

Dates Hauled: 5/13/2023, 5/15/2023

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: 2520 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 80.52% Corral Solids

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

DocuSign Envelope ID: AFFC56BF-E95D-407B-8BC5-DCB3D7D2FC68

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 E.3 of Reissued 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.

Operator's Signature: DocuSigned by: 45C24966B4F94B0... Date: 6/22/2024

Hauler's Signature: _____ Date: _____

DocuSign Envelope ID: AFFC56BF-E95D-407B-8BC5-DCB3D7D2FC68

DELLAVALLE LABORATORY INC

Report of Dairy Well Water Analysis

VP Farms Dairy
17644 Road 80
Tulare CA 93274
00-0021341 08

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

Lab No.: 23L0457
Sampled By: M. Pedroso
Requested By: Pete Vanderpoel
Submitted Date: 12/07/23
Reported Date: 12/13/23
Project:
Crop ID:

		Date Sampled	Time Sampled	EC µmhos/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	~~DW - MB~~ Dom	12/06/23	6:40	1120	1.12	27.3	ND		7.1

* = Field NH_4-N not Taken.
ND = None Detected

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

DocuSign Envelope ID: AFFC56BF-E95D-407B-8BC5-DCB3D7D2FC68

12/07/23 15:45 23L0457

JG

WATER WORK REQUEST

Acct No. Cons.

Bill To: 21341 8

Purchase Order No. Results Needed By

Client VP Farms 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 ~~Bill~~ Vanderpoel - (559) 901-5880

Ranch

Date sampled 12/6/23

Sampled by mpedroso

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

DELLAVALLE LABORATORY, INC.

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

No. of Samples 1 No. Bottles 1

Water Type: [ ] Drinking [ ] Wastewater
[X] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other

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

(X) DWW1: (EC, pH, NO_3-N, NH_4-N Field Test)
(1) 1 L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

( ) Other

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. ~~DW WB~~ DOM	Sampled From:	12/6/23	1040A	Ø	2.1
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:				

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	mpedroso	CAS	12/6/23 1040A	12/7/23 11A
Second	JLF	DLV	12-7-23 11:00	12-7-23 3:15
Third				
Fourth		DLI	12-7-23 15:45	

I guarantee that as the client, I am responsible for client services. I hereby give authority to contract the above laboratory services. Instead of the client that I am the valid authority, I agree to be personally liable for the costs and, if same should be unable signed the for data breach, reasonable 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, overdue accounts will be charged a stated damage fee of 2% per month (annually 24% or $3.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute arises concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternatives to Litigation, Inc. (ADR). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through ADR 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:

Sampling Hrs ____ Miles ____ Consulting ____

Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ ____ In
$ ____ Out

Signature

Sample received in cooler with ice?
[ ] Yes [ ] No

revised 12/17

DocuSign Envelope ID: AFFC56BF-E95D-407B-8BC5-DCB3D7D2FC68

DELLAVALLE LABORATORY INC

Report of Dairy Well Water Analysis

VP Farms Dairy
17644 Road 80
Tulare CA 93274
00-0021341 08

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

Lab No.: 23L0849
Sampled By: M Vanderpoel
Requested By: Bill Vanderpoel
Submitted Date: 12/13/23
Reported Date: 12/20/23
Project:
Crop ID:

		Date Sampled	Time Sampled	EC µmhos/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	IW #1	12/12/23	8:00	1080	1.08	28.1	ND		7.1
2	IW #2	12/12/23	8:30	1260	1.26	21.5	ND		7.3
3	IW #13	12/12/23	8:15	1080	1.08	28.1	ND		7.2

* = Field NH_4-N not Taken.
ND = None Detected

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

DocuSign Envelope ID: AFFC56BF-E95D-407B-8BC5-DCB3D7D2FC68

12/13/23 15:26 23L0849

JG

WATER WORK REQUEST

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

Bill To: Acct No. 21341 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client: VP Farms 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: Bill Vanderpoel - (559) 901-5880

Ranch _____

Date sampled: 12/12/23

Sampled by: MVanderPoel

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

No. of Samples _____ No. Bottles _____

Water Type: [ ] Drinking [ ] Wastewater
[X] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other _____

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

(X) DWW1: (EC, pH, NO_3-N, NH_4-N Field Test)
(1) 1 L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

( ) Other _____

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. IW#1	Sampled From:	12/12/23	8AM	Ø	4.1
2. IW#2	Sampled From:	12/12/23	830AM	Ø	3.8
3. IW#13	Sampled From:	12/12/23	815AM	Ø	6.3
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

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	MVanderPoel	VP	12/12/23 830A	12/12/23 5pm
Second	MPerkoso	CASINC	12/12/23 5pm	12/12/23 11:22
Third	JLF	DLV	12-13-23 11:00	12-13-23 3:01
Fourth	[illegible]	DLV	12/13/23 15:26	

[illegible]

Invoicing Information:

Sampling Hrs ____ Miles ____ Consulting ____

Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No