



INNOVATIVE  
AG SERVICES

# Sweet Haven Dairy

## 2023 Annual Report

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<input checked="" type="checkbox"/> Report Form	<input type="checkbox"/> NA Attachment H
<input checked="" type="checkbox"/> Attachment A	<input type="checkbox"/> NA Attachment I
<input checked="" type="checkbox"/> Attachment B	<input type="checkbox"/> NA Attachment J
<input checked="" type="checkbox"/> Attachment C	<input type="checkbox"/> NA Manure Tracking Manifests
<input checked="" type="checkbox"/> Attachment D	<input type="checkbox"/> NA 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 type="checkbox"/> NA Monitoring Well Report
<input checked="" type="checkbox"/> Attachment G	<input type="checkbox"/> NA Owner/Operator Change Form

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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

## Sweet Haven Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy Sweet Haven Dairy  
Facility Address 10467 W. Kamm Avenue, Riverdale CA 93656

Owner/Operator as of 12/31/2023

Operator Name Rollin Valley Farms  
Operator Phone (559) 816-2644  
Owner Name Rollin Valley Farms  
Owner Phone (559) 816-2644

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).

## Sweet Haven 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:

- 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).



**Sweet Haven 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**

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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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
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."

Same as owner

Signature of Operator of Facility

DocuSigned by:



C7A6D06E4324FC

Signature of Owner of Facility

Rollin Valley Farms

Print Name

Rollin Valley Farms

Print Name

Title and Date

6/26/2024

Title and Date



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## Sweet Haven 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	1,623	1,615	Milk Freestall -	1,400	40,986.90	583,580.25	100,210.75	135,579.25	1,064,591.85
Hol Dry Cows	251	248	Flushed	1,450	3,618.84	45,260.00	6,336.40	29,871.60	63,870.91
Hol Heifers(15-24)	983	978	Dry Scrape	1,000	10,208.88	135,648.60	21,418.20	64,254.60	251,878.03
Hol Heifers (7-14)	1,020	1,010	Dry Scrape	750	9,713.45	95,849.00	16,220.60	55,297.50	121,930.99
Hol Calves (0-3)	325	317	Calves Dry Scrape	150	1,099.20	2,314.10	1,157.05	4,628.20	2,785.02
	4,202	4,168			65,627.27	862,651.95	145,343.00	289,631.15	1,505,056.80

\* 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)**
22,080,791	790.25	152.30	542.50	4,147.50	145,353.04	28,012.99	99,783.64	762,862.06

\* 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).



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 1

Alfalfa, 71 Acres Planted on 11/01/2022

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)
10/15/2022	Corral Solids: Main Corral	10.00	Tons	7.64	1.76	0.46	0.76	%	710		23,083	6,020	9,941	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			994				
02/14/2023	Ground Water: Well Avg	6.25	Acre Inches		4.30			mg/L			432	0	0	44,566	
03/17/2023	Ground Water: Well Avg	6.17	Acre Inches		4.30			mg/L			426	0	0	43,996	
04/14/2023	Ground Water: Well Avg	5.75	Acre Inches		4.30			mg/L			397	0	0	41,001	
05/12/2023	Ground Water: Well Avg	6.34	Acre Inches		4.30			mg/L			438	0	0	45,208	
06/09/2023	Ground Water: Well Avg	6.08	Acre Inches		4.30			mg/L			420	0	0	43,354	
07/07/2023	Ground Water: Well Avg	6.25	Acre Inches		4.30			mg/L			432	0	0	44,566	
08/06/2023	Ground Water: Well Avg	5.92	Acre Inches		4.30			mg/L			409	0	0	42,213	
09/10/2023	Ground Water: Well Avg	6.34	Acre Inches		4.30			mg/L			438	0	0	45,208	
10/25/2023	Ground Water: Well Avg	5.75	Acre Inches		4.30			mg/L			397	0	0	41,001	
11/20/2023	Harvest	8.60	Tons	10.20	3.46	0.31	3.01	%						37,944	
<b>Acre Inches Applied:</b>		<b>54.85</b>		<b>Totals:</b>					<b>710</b>		<b>27,865</b>	<b>6,020</b>	<b>9,941</b>	<b>391,113</b>	<b>37,944</b>
<b>Season Nitrogen Ratio:</b>		<b>0.73</b>		<b>Lbs Per Acre:</b>							<b>392</b>	<b>85</b>	<b>140</b>	<b>5,509</b>	<b>534</b>



**Sweet Haven Dairy 2023  
Nutrient Applications (Attachment B)**

Field Name: 2E

Wheat, 39 Acres Planted on 11/22/2022

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)
12/16/2022	Ground Water: Well Avg	4.81	Acre Inches				mg/L			0	0	0	0	
12/16/2022	Waste Water: Main Lagoon	0.57	Acre Inches	382.00	115.00	699.00	mg/L	603,640	1,921	578	3,515	34,092		
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%			546				
02/12/2023	Surface Water: Burrel Ditch	4.24	Acre Inches				mg/L			0	0	0	0	
02/12/2023	Waste Water: Main Lagoon	0.25	Acre Inches	1,290.00	244.00	1,040.0	mg/L	264,754	2,845	538	2,294	13,872		
04/11/2023	Surface Water: Burrel Ditch	4.93	Acre Inches				mg/L			0	0	0	0	
04/11/2023	Waste Water: Main Lagoon	0.29	Acre Inches	1,290.00	244.00	1,040.0	mg/L	307,115	3,300	624	2,661	16,091		
04/26/2023	Harvest	21.30	Tons	66.90	1.15	0.36	2.35 %							6,324
<b>Acre Inches Applied:</b>		<b>15.09</b>		<b>Totals:</b>				<b>1,175,510</b>	<b>8,612</b>	<b>1,741</b>	<b>8,469</b>	<b>64,055</b>	<b>6,324</b>	
<b>Season Nitrogen Ratio:</b>		<b>1.36</b>		<b>Lbs Per Acre:</b>						<b>221</b>	<b>45</b>	<b>217</b>	<b>1,642</b>	<b>162</b>



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 2E

Corn, 39 Acres Planted on 06/13/2023

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)
06/25/2023	Ground Water: Well Avg	5.29	Acre Inches	4.30		mg/L			201	0	0	20,720		
06/25/2023	Waste Water: Main Lagoon	0.60	Acre Inches	1,070.00	206.00	474.00	mg/L		635,411	5,664	1,090	2,509	20,325	
07/10/2023	Ground Water: Well Avg	6.21	Acre Inches	4.30		mg/L			236	0	0	24,323		
07/25/2023	Ground Water: Well Avg	5.42	Acre Inches	4.30		mg/L			206	0	0	21,229		
07/25/2023	Waste Water: Main Lagoon	0.50	Acre Inches	581.00	118.00	412.00	mg/L		529,509	2,563	521	1,817	17,643	
08/08/2023	Ground Water: Well Avg	6.35	Acre Inches	4.30		mg/L			241	0	0	24,872		
08/22/2023	Ground Water: Well Avg	5.29	Acre Inches	4.30		mg/L			201	0	0	20,720		
08/22/2023	Waste Water: Main Lagoon	0.49	Acre Inches	581.00	118.00	412.00	mg/L		518,919	2,512	510	1,781	17,290	
09/01/2023	Ground Water: Well Avg	5.50	Acre Inches	4.30		mg/L			209	0	0	21,542		
09/12/2023	Harvest	28.00	Tons	53.30	0.86	0.33	1.54 %							8,741
<b>Acre Inches Applied:</b>		<b>35.65</b>		<b>Totals:</b>				<b>1,683,838</b>	<b>12,030</b>	<b>2,121</b>	<b>6,107</b>	<b>188,664</b>	<b>8,741</b>	
<b>Season Nitrogen Ratio:</b>		<b>1.38</b>		<b>Lbs Per Acre:</b>				<b>308</b>	<b>54</b>	<b>157</b>	<b>4,838</b>	<b>224</b>		



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 2W

Alfalfa, 38 Acres Planted on 11/15/2022

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)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%				532				
02/16/2023	Ground Water: Well Avg	6.47	Acre Inches	4.30		mg/L				239	0	0	24,692	
03/19/2023	Ground Water: Well Avg	6.32	Acre Inches	4.30		mg/L				234	0	0	24,119	
04/16/2023	Ground Water: Well Avg	5.53	Acre Inches	4.30		mg/L				204	0	0	21,104	
05/14/2023	Ground Water: Well Avg	6.63	Acre Inches	4.30		mg/L				245	0	0	25,303	
06/11/2023	Ground Water: Well Avg	6.16	Acre Inches	4.30		mg/L				228	0	0	23,509	
07/09/2023	Ground Water: Well Avg	6.47	Acre Inches	4.30		mg/L				239	0	0	24,692	
08/08/2023	Ground Water: Well Avg	5.84	Acre Inches	4.30		mg/L				216	0	0	22,288	
09/12/2023	Ground Water: Well Avg	6.63	Acre Inches	4.30		mg/L				245	0	0	25,303	
10/27/2023	Ground Water: Well Avg	5.53	Acre Inches	4.30		mg/L				204	0	0	21,104	
11/20/2023	Harvest	8.90	Tons	8.65	3.06	0.30	2.87	%						18,908
Acre Inches Applied:		55.58		Totals:						2,586	0	0	212,114	18,908
Season Nitrogen Ratio:		0.14		Lbs Per Acre:						68	0	0	5,582	498



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 80 Acres Planted on 12/16/2022

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)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			1,120					
01/09/2023	Ground Water: Well Avg	4.36	Acre Inches	4.30		mg/L			339	0	0	35,030		
01/09/2023	Waste Water: Main Lagoon	0.52	Acre Inches	382.00	115.00	699.00	mg/L		1,129,619	3,594	1,082	6,578	63,798	
03/08/2023	Ground Water: Well Avg	4.69	Acre Inches	4.30		mg/L			365	0	0	37,682		
03/08/2023	Waste Water: Main Lagoon	0.56	Acre Inches	1,290.00	244.00	1,040.0	mg/L		1,216,513	13,072	2,473	10,539	63,740	
05/05/2023	Ground Water: Well Avg	4.64	Acre Inches	4.30		mg/L			361	0	0	37,280		
05/05/2023	Waste Water: Main Lagoon	0.55	Acre Inches	1,070.00	206.00	474.00	mg/L		1,194,789	10,650	2,050	4,718	38,218	
05/20/2023	Harvest	21.00	Tons	60.60	1.88	0.49	3.73 %							24,888
<b>Acre Inches Applied:</b>		<b>15.32</b>		<b>Totals:</b>				<b>3,540,921</b>	<b>29,501</b>	<b>5,606</b>	<b>21,834</b>	<b>275,747</b>	<b>24,888</b>	
<b>Season Nitrogen Ratio:</b> 1.19				<b>Lbs Per Acre:</b>				<b>369</b>	<b>70</b>	<b>273</b>	<b>3,447</b>	<b>311</b>		



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 3

Corn, 80 Acres Planted on 07/05/2023

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)
07/17/2023	Ground Water: Well Avg	5.16	Acre Inches	4.30		mg/L		402	0	0	41,458		
07/17/2023	Waste Water: Main Lagoon	0.41	Acre Inches	581.00	118.00	412.00	mg/L	890,661	4,310	875	3,057	29,677	
08/01/2023	Ground Water: Well Avg	5.84	Acre Inches	4.30		mg/L		454	0	0	46,922		
08/01/2023	Waste Water: Main Lagoon	0.51	Acre Inches	581.00	118.00	412.00	mg/L	1,107,895	5,362	1,089	3,802	36,915	
08/16/2023	Ground Water: Well Avg	5.22	Acre Inches	4.30		mg/L		406	0	0	41,940		
08/30/2023	Ground Water: Well Avg	5.91	Acre Inches	4.30		mg/L		460	0	0	47,484		
09/13/2023	Ground Water: Well Avg	5.16	Acre Inches	4.30		mg/L		402	0	0	41,458		
09/13/2023	Waste Water: Main Lagoon	0.41	Acre Inches	220.00	41.20	244.00	mg/L	890,661	1,632	306	1,810	18,251	
09/23/2023	Ground Water: Well Avg	5.50	Acre Inches	4.30		mg/L		428	0	0	44,190		
10/04/2023	Harvest	27.30	Tons	54.40	0.70	0.32	1.65 %						13,982
<b>Acre Inches Applied:</b>		<b>34.12</b>		<b>Totals:</b>				<b>2,889,218</b>	<b>13,856</b>	<b>2,270</b>	<b>8,670</b>	<b>348,294</b>	<b>13,982</b>
<b>Season Nitrogen Ratio:</b>		<b>0.99</b>		<b>Lbs Per Acre:</b>				<b>173</b>	<b>28</b>	<b>108</b>	<b>4,354</b>	<b>175</b>	



**Sweet Haven Dairy 2023  
Nutrient Applications (Attachment B)**

Field Name: 7

Triticale, 55 Acres Planted on 12/03/2022

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)
12/27/2022	Ground Water: Well Avg	4.31	Acre Inches	9.40		mg/L			504	0	0	30,116		
12/27/2022	Waste Water: Main Lagoon	0.51	Acre Inches	382.00	115.00	699.00	mg/L		761,678	2,424	730	4,435	43,018	
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%				770				
02/23/2023	Ground Water: Well Avg	4.80	Acre Inches	4.30		mg/L			257	0	0	26,514		
02/23/2023	Waste Water: Main Lagoon	0.20	Acre Inches	1,290.00	244.00	1,040.0	mg/L		298,697	3,210	607	2,588	15,650	
04/22/2023	Ground Water: Well Avg	4.71	Acre Inches	4.30		mg/L			252	0	0	26,017		
04/22/2023	Waste Water: Main Lagoon	0.30	Acre Inches	1,290.00	244.00	1,040.0	mg/L		448,046	4,815	911	3,881	23,476	
05/05/2023	Harvest	19.00	Tons	67.10	1.32	0.41	2.46 %							9,077
<b>Acre Inches Applied:</b>		<b>14.83</b>		<b>Totals:</b>					<b>1,508,421</b>	<b>12,231</b>	<b>2,248</b>	<b>10,904</b>	<b>164,790</b>	<b>9,077</b>
<b>Season Nitrogen Ratio:</b>		<b>1.35</b>		<b>Lbs Per Acre:</b>					<b>222</b>	<b>41</b>	<b>198</b>	<b>2,996</b>	<b>165</b>	

## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 7

Corn, 55 Acres Planted on 06/13/2023

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)
06/27/2023	Surface Water: Burrel Ditch	5.21	Acre Inches				mg/L			0	0	0	0	
06/27/2023	Waste Water: Main Lagoon	0.39	Acre Inches	1,070.00	206.00	474.00	mg/L	582,460	5,191	999	2,300	18,631		
07/12/2023	Surface Water: Burrel Ditch	6.00	Acre Inches				mg/L			0	0	0	0	
07/27/2023	Ground Water: Well Avg	5.31	Acre Inches	4.30			mg/L			284	0	0	29,331	
07/27/2023	Waste Water: Main Lagoon	0.57	Acre Inches	581.00	118.00	412.00	mg/L	851,287	4,120	837	2,922	28,365		
08/10/2023	Ground Water: Well Avg	6.10	Acre Inches	4.30			mg/L			326	0	0	33,695	
08/24/2023	Ground Water: Well Avg	5.21	Acre Inches	4.30			mg/L			279	0	0	28,778	
08/24/2023	Waste Water: Main Lagoon	0.56	Acre Inches	581.00	118.00	412.00	mg/L	836,352	4,047	822	2,870	27,867		
09/03/2023	Ground Water: Well Avg	5.50	Acre Inches	4.30			mg/L			294	0	0	30,380	
09/12/2023	Harvest	29.45	Tons	55.10	0.74	0.29	1.46 %							10,720
<b>Acre Inches Applied:</b>		<b>34.85</b>		<b>Totals:</b>				<b>2,270,099</b>	<b>14,542</b>	<b>2,658</b>	<b>8,092</b>	<b>197,048</b>	<b>10,720</b>	
<b>Season Nitrogen Ratio:</b>		<b>1.36</b>		<b>Lbs Per Acre:</b>				<b>264</b>	<b>48</b>	<b>147</b>	<b>3,583</b>	<b>195</b>		



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 8

Wheat, 22 Acres Planted on 12/01/2022

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)
12/25/2022	Ground Water: Well Avg	4.06	Acre Inches	9.40			mg/L		190	0	0	11,348		
12/25/2022	Waste Water: Main Lagoon	0.48	Acre Inches	382.00	115.00	699.00	mg/L	286,749	913	275	1,670	16,195		
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%		308					
02/21/2023	Ground Water: Well Avg	5.28	Acre Inches	4.30			mg/L		113	0	0	11,666		
02/21/2023	Waste Water: Main Lagoon	0.29	Acre Inches	1,290.00	244.00	1,040.0	mg/L	173,244	1,862	352	1,501	9,077		
04/20/2023	Ground Water: Well Avg	5.08	Acre Inches	4.30			mg/L		109	0	0	11,224		
04/20/2023	Waste Water: Main Lagoon	0.30	Acre Inches	1,290.00	244.00	1,040.0	mg/L	179,218	1,926	364	1,553	9,390		
05/05/2023	Harvest	19.60	Tons	68.00	1.41	0.42	2.61							3,891
<b>Acre Inches Applied:</b>		<b>15.49</b>		<b>Totals:</b>				<b>639,212</b>	<b>5,420</b>	<b>991</b>	<b>4,723</b>	<b>68,900</b>	<b>3,891</b>	
<b>Season Nitrogen Ratio:</b>		<b>1.39</b>		<b>Lbs Per Acre:</b>					<b>246</b>	<b>45</b>	<b>215</b>	<b>3,132</b>	<b>177</b>	



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 8

Corn, 22 Acres Planted on 06/13/2023

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)
06/23/2023	Ground Water: Well Avg	5.49	Acre Inches	4.30			mg/L		117	0	0	0	12,130	
06/23/2023	Waste Water: Main Lagoon	0.51	Acre Inches	1,070.00	206.00	474.00	mg/L	304,671	2,715	523	1,203	9,746		
07/08/2023	Ground Water: Well Avg	6.75	Acre Inches	4.30			mg/L		145	0	0	0	14,914	
07/23/2023	Ground Water: Well Avg	5.70	Acre Inches	4.30			mg/L		122	0	0	0	12,594	
07/23/2023	Waste Water: Main Lagoon	0.73	Acre Inches	581.00	118.00	412.00	mg/L	436,098	2,111	429	1,497	14,531		
08/06/2023	Ground Water: Well Avg	7.00	Acre Inches	4.30			mg/L		150	0	0	0	15,466	
08/20/2023	Ground Water: Well Avg	5.49	Acre Inches	4.30			mg/L		117	0	0	0	12,130	
08/20/2023	Waste Water: Main Lagoon	0.51	Acre Inches	581.00	118.00	412.00	mg/L	304,671	1,474	299	1,046	10,152		
08/30/2023	Ground Water: Well Avg	5.50	Acre Inches	4.30			mg/L		118	0	0	0	12,152	
09/12/2023	Harvest	27.00	Tons	55.20	0.97	0.34	1.38 %							5,147
<b>Acre Inches Applied:</b>		<b>37.68</b>		<b>Totals:</b>				<b>1,045,441</b>	<b>7,069</b>	<b>1,251</b>	<b>3,745</b>	<b>113,815</b>	<b>5,147</b>	
<b>Season Nitrogen Ratio:</b>		<b>1.37</b>		<b>Lbs Per Acre:</b>				<b>321</b>	<b>57</b>	<b>170</b>	<b>5,173</b>	<b>234</b>		



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 9

Almonds, 31 Acres Planted on 02/22/2016

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)
11/11/2022	Ground Water: Well Avg	3.46	Acre Inches	9.40			mg/L			228	0	0	13,627	
12/16/2022	Fertilize (10-34-0)	15.00	Pounds	10.00	34.00	0.00	%			46	158	0	0	0
12/16/2022	Ground Water: Well Avg	3.35	Acre Inches	9.40			mg/L			221	0	0	13,194	
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%			434				
01/20/2023	Ground Water: Well Avg	3.04	Acre Inches	4.30			mg/L			92	0	0	9,465	
02/17/2023	Ground Water: Well Avg	3.36	Acre Inches	4.30			mg/L			101	0	0	10,461	
03/16/2023	Fertilize - UN32	15.00	Gallons	32.00	0.00	0.00	%			1,239	0	0	0	0
03/16/2023	Ground Water: Well Avg	3.35	Acre Inches	4.30			mg/L			101	0	0	10,430	
04/13/2023	Ground Water: Well Avg	3.25	Acre Inches	4.30			mg/L			98	0	0	10,118	
05/08/2023	Fertilize - UN32	15.00	Gallons	32.00	0.00	0.00	%			1,239	0	0	0	0
05/08/2023	Ground Water: Well Avg	3.67	Acre Inches	4.30			mg/L			111	0	0	11,426	
06/02/2023	Ground Water: Well Avg	3.77	Acre Inches	4.30			mg/L			114	0	0	11,737	
06/27/2023	Ground Water: Well Avg	3.46	Acre Inches	4.30			mg/L			104	0	0	10,772	
07/22/2023	Ground Water: Well Avg	2.73	Acre Inches	4.30			mg/L			82	0	0	8,500	
08/16/2023	Ground Water: Well Avg	3.35	Acre Inches	4.30			mg/L			101	0	0	10,430	
09/12/2023	Harvest	2.90	Tons	6.90	1.97	0.16	1.71 %							3,298
<b>Acre Inches Applied:</b>		<b>36.79</b>		<b>Totals:</b>						4,313	158	0	120,159	3,298
<b>Season Nitrogen Ratio:</b>		<b>1.31</b>		<b>Lbs Per Acre:</b>						139	5	0	3,876	106



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 12

Wheat, 71 Acres Planted on 12/13/2022

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)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%				994				
01/06/2023	Ground Water: Well Avg	4.34	Acre Inches	4.30		mg/L				300	0	0	30,947	
01/06/2023	Waste Water: Main Lagoon	0.51	Acre Inches	382.00	115.00	699.00	mg/L			983,257	3,129	942	5,725	55,532
03/05/2023	Ground Water: Well Avg	4.72	Acre Inches	4.30		mg/L				326	0	0	33,656	
03/05/2023	Waste Water: Main Lagoon	0.46	Acre Inches	1,290.00	244.00	1,040.0	mg/L			886,859	9,530	1,803	7,683	46,467
05/02/2023	Ground Water: Well Avg	4.66	Acre Inches	4.30		mg/L				322	0	0	33,229	
05/02/2023	Waste Water: Main Lagoon	0.55	Acre Inches	1,070.00	206.00	474.00	mg/L			1,060,375	9,452	1,820	4,187	33,918
05/17/2023	Harvest	21.50	Tons	61.20	1.82	0.49	3.94 %							21,559
<b>Acre Inches Applied:</b>		<b>15.24</b>		<b>Totals:</b>				<b>2,930,492</b>	<b>24,051</b>	<b>4,565</b>	<b>17,595</b>	<b>233,749</b>	<b>21,559</b>	
<b>Season Nitrogen Ratio:</b> 1.12				<b>Lbs Per Acre:</b>						<b>339</b>	<b>64</b>	<b>248</b>	<b>3,292</b>	<b>304</b>



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 12

Corn, 71 Acres Planted on 06/13/2023

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)
06/20/2023	Ground Water: Well Avg	5.17	Acre Inches	4.30			mg/L		357	0	0	36,865		
06/20/2023	Waste Water: Main Lagoon	0.48	Acre Inches	1,070.00	206.00	474.00	mg/L	925,419	8,248	1,588	3,654	29,601		
07/05/2023	Ground Water: Well Avg	5.89	Acre Inches	4.30			mg/L		407	0	0	41,999		
07/20/2023	Ground Water: Well Avg	5.24	Acre Inches	4.30			mg/L		362	0	0	37,364		
07/20/2023	Waste Water: Main Lagoon	0.69	Acre Inches	581.00	118.00	412.00	mg/L	1,330,289	6,438	1,308	4,565	44,325		
08/03/2023	Ground Water: Well Avg	5.96	Acre Inches	4.30			mg/L		412	0	0	42,498		
08/17/2023	Ground Water: Well Avg	5.17	Acre Inches	4.30			mg/L		357	0	0	36,865		
08/17/2023	Waste Water: Main Lagoon	0.48	Acre Inches	581.00	118.00	412.00	mg/L	925,419	4,479	910	3,176	30,835		
08/27/2023	Ground Water: Well Avg	5.50	Acre Inches	4.30			mg/L		380	0	0	39,218		
09/12/2023	Harvest	28.70	Tons	55.10	0.90	0.38	1.64	%						16,524
<b>Acre Inches Applied:</b>		<b>34.58</b>		<b>Totals:</b>				<b>3,181,126</b>	<b>21,440</b>	<b>3,806</b>	<b>11,395</b>	<b>339,573</b>	<b>16,524</b>	
<b>Season Nitrogen Ratio:</b>		<b>1.30</b>		<b>Lbs Per Acre:</b>				<b>302</b>	<b>54</b>	<b>160</b>	<b>4,783</b>	<b>233</b>		



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 5-6

Corn, 64 Acres Planted on 06/13/2023

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)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			896					
06/25/2023	Ground Water: Well Avg	6.13	Acre Inches	4.30		mg/L			381	0	0	39,401		
06/25/2023	Waste Water: Main Lagoon	0.32	Acre Inches	1,070.00	206.00	474.00	mg/L		556,120	4,957	954	2,196	17,789	
07/10/2023	Ground Water: Well Avg	7.01	Acre Inches	4.30		mg/L			436	0	0	45,057		
07/25/2023	Ground Water: Well Avg	6.23	Acre Inches	4.30		mg/L			388	0	0	40,044		
07/25/2023	Waste Water: Main Lagoon	0.38	Acre Inches	581.00	118.00	412.00	mg/L		660,393	3,196	649	2,266	22,004	
08/08/2023	Ground Water: Well Avg	7.11	Acre Inches	4.30		mg/L			443	0	0	45,700		
08/22/2023	Ground Water: Well Avg	6.13	Acre Inches	4.30		mg/L			381	0	0	39,401		
09/01/2023	Ground Water: Well Avg	6.50	Acre Inches	4.30		mg/L			404	0	0	41,779		
09/12/2023	Harvest	20.30	Tons	54.50	0.70	0.35	1.50	%						8,312
<b>Acre Inches Applied:</b>		<b>39.81</b>		<b>Totals:</b>					<b>1,216,513</b>	<b>11,484</b>	<b>1,603</b>	<b>4,462</b>	<b>291,175</b>	<b>8,312</b>
<b>Season Nitrogen Ratio:</b>		<b>1.38</b>		<b>Lbs Per Acre:</b>					<b>179</b>	<b>25</b>	<b>70</b>	<b>4,550</b>	<b>130</b>	



## Sweet Haven Dairy 2023

### Nutrient Applications (Attachment B)

Field Name: 10-11

Almonds, 53 Acres Planted on 03/15/2011

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)
11/13/2022	Ground Water: Well Avg	3.37	Acre Inches	9.40		mg/L			380	0	0	0	22,692	
12/18/2022	Fertilize (10-34-0)	10.00	Pounds	10.00	34.00	0.00	%			53	180	0	0	0
12/18/2022	Ground Water: Well Avg	3.31	Acre Inches	9.40		mg/L			373	0	0	0	22,288	
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			742					
01/22/2023	Ground Water: Well Avg	3.13	Acre Inches	4.30		mg/L			161	0	0	0	16,661	
02/19/2023	Ground Water: Well Avg	3.37	Acre Inches	4.30		mg/L			174	0	0	0	17,938	
03/18/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%		1,413	0	0	0	0	
03/18/2023	Ground Water: Well Avg	3.31	Acre Inches	4.30		mg/L			171	0	0	0	17,619	
04/15/2023	Ground Water: Well Avg	3.23	Acre Inches	4.30		mg/L			166	0	0	0	17,193	
05/10/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%		1,413	0	0	0	0	
05/10/2023	Ground Water: Well Avg	3.50	Acre Inches	4.30		mg/L			180	0	0	0	18,630	
06/04/2023	Ground Water: Well Avg	3.56	Acre Inches	4.30		mg/L			183	0	0	0	18,949	
06/29/2023	Ground Water: Well Avg	3.37	Acre Inches	4.30		mg/L			174	0	0	0	17,938	
07/24/2023	Ground Water: Well Avg	2.94	Acre Inches	4.30		mg/L			152	0	0	0	15,649	
08/18/2023	Ground Water: Well Avg	3.31	Acre Inches	4.30		mg/L			171	0	0	0	17,619	
09/12/2023	Harvest	2.95	Tons	6.70	1.64	0.21	1.47 %							4,785
<b>Acre Inches Applied:</b>		<b>36.40</b>		<b>Totals:</b>						<b>5,906</b>	<b>180</b>	<b>0</b>	<b>203,174</b>	<b>4,785</b>
<b>Season Nitrogen Ratio:</b>		<b>1.23</b>		<b>Lbs Per Acre:</b>						<b>111</b>	<b>3</b>	<b>0</b>	<b>3,833</b>	<b>90</b>



**Sweet Haven 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	23,082.81	6,020.09	9,941.42	0.00	710.00	tons
Process Wastewater	141,659.91	28,858.78	105,996.09	876,482.25	22,080,790.59	gallons
Irrigation Water	23,422.34					
Fertilizer / Total Imports	5,404.22					
Atmospheric Deposition	7,336.00					
<b>Total Nitrogen Applied</b>	<b>200,905.28</b>					
Crop Nitrogen Removal	194,098.60					
<b>Nitrogen Balance</b>	<b>6,806.68</b>					
<b>Nitrogen Ratio</b>	<b>1.04</b>					

- 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.



## Sweet Haven 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



## Sweet Haven 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)**
-------------------------------	---------------------------------	-----------------------------------	----------------------------------	------------------------------

\* 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.



**Sweet Haven Dairy 2023**  
**Land Application Area Description Technical Report (Attachment D)**

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x041 x070 x10S xxxx	71	Manure
2E	x041 x070 x10S xxxx	39	Process Wastewater
2W	x041 x070 x10S xxxx	38	None
3	x041 x070 x10S xxxx	80	Process Wastewater
7	x041 x070 x10S xxxx	55	Process Wastewater
8	x041 x070 x10S xxxx	22	Process Wastewater
9	x041 x070 x10S xxxx	31	None
12	x041 x070 x10S xxxx	71	Process Wastewater
5-6	x041 x070 x10S xxxx	64	Process Wastewater
10-11	x041 x070 x10S xxxx	53	None
			524

Production Area APN(s): x041 x070 x10S xxxx



**Sweet Haven 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
03/09/2023	1,290.00	244.00	1,040.00	9,470	435.00		6,290.00							
06/16/2023	1,070.00	206.00	474.00	5,790	264.00	0.00	3,840.00	7.19						
07/14/2023	581.00	118.00	412.00	6,020	243.00		4,000.00							
11/09/2023	220.00	41.20	244.00	3,700	219.00		2,460.00							
<b>Averages:</b>	790.25	152.30	542.50	6,245	290.25	0.00	4,147.50	7.19						

**Manure - Compost Solids**

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL	%
06/06/2023	1.63	0.25	0.21	13.80							
<b>Averages:</b>	1.63	0.25	0.21	13.80							

**Manure - Corral Solids**

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL	%
06/06/2023	2.09	0.37	0.28	42.50							
11/09/2023	3.05	1.02	4.16	37.90							
<b>Averages:</b>	2.57	0.69	2.22	40.20							



**Sweet Haven 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 (%)
1	1	Alfalfa	11/20/2023	69.20	6.20	60.20	10.20	12.80
2E	1	Wheat	04/26/2023	23.00	7.24	47.00	66.90	10.10
2E	2	Corn	09/12/2023	17.14	6.60	30.80	53.30	6.63
2W	1	Alfalfa	11/20/2023	61.20	6.00	57.40	8.65	12.10
3	1	Wheat	05/20/2023	37.60	9.72	74.60	60.60	12.10
3	2	Corn	10/04/2023	14.04	6.34	33.00	54.40	6.76
7	1	Triticale	05/05/2023	26.40	8.16	49.20	67.10	10.00
7	2	Corn	09/12/2023	14.74	5.74	29.20	55.10	6.26
8	1	Wheat	05/05/2023	28.20	8.36	52.20	68.00	10.70
8	2	Corn	09/12/2023	19.34	6.76	27.60	55.20	2.75
9	1	Almonds	09/12/2023	39.40	3.26	34.20	6.90	14.20
12	1	Wheat	05/17/2023	36.40	9.74	78.80	61.20	12.10
12	2	Corn	09/12/2023	18.06	7.50	32.80	55.10	7.22
5-6	1	Corn	09/12/2023	14.06	6.94	30.00	54.50	6.65
10-11	1	Almonds	09/12/2023	32.80	4.12	29.40	6.70	8.63

**Sweet Haven 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	General Minerals						
								CA	MG	NA	HCO3	CO3	SO4	CL
<b>Domestic</b>														
Dom 1	03/01/2023	6.30		747										
Dom 2	03/08/2023	0.00		477										
Dom 3	06/27/2023	5.80		1,050										
Dom-Old								Out of service.						
Averages:		4.03		758										
<b>Irrigation</b>														
Well 5-6	06/20/2023	3.40		633		420.00	3.40	55.00	4.00	58.00	130.00	0.00	17.10	95.00
Well 1	06/20/2023	3.40		556		330.00	3.40							
Well 2								Out of service.						
Well 3	06/20/2023	3.20		656		410.00	3.20							
Well 4								Did not run.						
Well 7								Did not run.						
Well 8	06/27/2023	8.40		941		610.00	8.40							
Well 9								Out of service.						
Well 12								Out of service.						
Well 8a								Did not run.						
Well 9B	06/27/2023	3.10		758		450.00	3.10	33.00	2.00	111.00	260.00	0.00	7.60	88.00
Averages:		4.30		709		444.00	4.30	44.00	3.00	84.50	195.00	0.00	12.35	91.50



INNOVATIVE AG SERVICES

**Sweet Haven 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	General Minerals						
								CA	MG	NA	HCO3	CO3	SO4	CL
<b>Surface Water</b>														
Burrel Ditch	07/06/2023	0.00		25		20.00	0.00							
Averages:		0.00		25		20.00	0.00							

\* NH4N was non-detectable unless a value is shown

**Sweet Haven 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 Alfalfa	71	11/01/2022	11/20/2023	8.0	610.6	8.6
Field: 2E	1 Wheat	39	11/22/2022	04/26/2023	21.1	830.7	21.3
	2 Corn	39	06/13/2023	09/12/2023	26.8	1092.0	28.0
Field: 2W	1 Alfalfa	38	11/15/2022	11/20/2023	8.0	338.2	8.9
Field: 3	1 Wheat	80	12/16/2022	05/20/2023	20.7	1680.0	21.0
	2 Corn	80	07/05/2023	10/04/2023	26.3	2184.0	27.3
Field: 7	1 Triticale	55	12/03/2022	05/05/2023	18.0	1045.0	19.0
	2 Corn	55	06/13/2023	09/12/2023	28.0	1619.8	29.4
Field: 8	1 Wheat	22	12/01/2022	05/05/2023	20.0	431.2	19.6
	2 Corn	22	06/13/2023	09/12/2023	26.0	594.0	27.0
Field: 9	1 Almonds	31	02/22/2016	09/12/2023	2.9	89.9	2.9
Field: 12	1 Wheat	71	12/13/2022	05/17/2023	20.9	1526.5	21.5
	2 Corn	71	06/13/2023	09/12/2023	27.4	2037.7	28.7
Field: 5-6	1 Corn	64	06/13/2023	09/12/2023	30.0	1299.2	20.3
Field: 10-11	1 Almonds	53	03/15/2011	09/12/2023	2.9	156.4	3.0



## Sweet Haven 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	None	None	None	None	None	None	None	None
4	Light	None	None	None	None	None	None	None	None	None	None	None
5	Heavy	None	Light	None	None	None	None	None	None	None	None	None
6	Light	None	Light	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	Light	None	Light	None	None	None	None	None	None	None	None	None
10	Light	None	Light	None	None	None	None	None	None	None	None	None
11	None	None	None	None	None	None	None	None	None	None	None	None
12	SWP	None	None	None	None	None	None	None	None	None	None	None
13	Light	None	None	None	None	None	None	None	None	None	None	None
14	SWP	None	None	None	None	None	None	None	None	None	None	None
15	Light	None	Heavy	None	None	None	None	None	None	None	None	None
16	Light	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	Heavy	None	None	None	None	None	None	None	None	Light
20	None	None	None	None	None	None	None	None	None	None	None	SWP
21	None	None	Heavy	None	None	None	None	None	None	None	None	None
22	None	None	Light	None	None	None	None	None	None	None	None	None
23	None	None	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	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	None	Light	None	None	None	None	None	None	None	None	None
29	Light		None	None	None	None	None	None	None	None	None	Light
30	None		None	None	None	None	None	None	None	None	None	SWP
31	None		None		None		None	None		None		None

\*Note: SWP = Standing Water Present





March 9, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

**Lab No.** : VI 2341266  
**Customer No.** : 4018573  
**Reference** : 40250

### Laboratory Report

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

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

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dom 1	03/01/2023	03/01/2023	VI 2341266-001	DW

### Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

### Test Summary

SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-03-14



March 9, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : Dom 1  
 Project : 0641 Sweet Haven Dairy

Lab No. : VI 2341266-001  
 Customer No.: 4018573  
 Reference : 40250  
 Sampled On : March 1, 2023 at 11:00  
 Sampled By : Sean  
 Received On : March 1, 2023 at 16:01  
 Matrix : Drinking Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Nitrate Nitrogen	6.3	0.4	mg/L	10	1		03/02/2023	14:00	Ifs	SM 4500-NO3 F	03/02/2023	15:16	Ifs
Conductivity	747	1	umhos/cm	1600 <sup>2</sup>	1		03/07/2023	21:02	amm	SM 4500-H+B	03/08/2023	00:48	amm

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

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



March 9, 2023

**Innovative Ag Services, LLC**

Lab No. : VI 2341266  
 Customer No. : 4018573

**Quality Control - Wet Chem**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(STK2332250-004)	Dup	umhos/cm		0%	5	
Nitrate Nitrogen	4500NO3F	03/02/2023:202295LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	99.2%	80-120	
			MS	mg/L	5.609	98.0%	66-125	
		(STK2332703-001)	MSD	mg/L	5.609	98.8%	66-125	
			MSRPD	mg/L	5.609	0.5%	≤30.4	

**Definition**

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.



# Laboratory Analysis Work Order

Nº 40250

ID: # 06412341266LABORATORY: FCLSITE NAME: SWEET HARTEN DAIRYBilling: TAS

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

## ANALYSIS TO BE COMPLETED:

### Irrigation/Ground Water (ELAP Standards)

W1 EC, NO<sub>3</sub>N (Dom)W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)W3 NH<sub>4</sub>N (Ammonium)W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)W8 Other: \_\_\_\_\_

### Plant Tissue

P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)P2 TN, P, K (Mid-season - Corn)P3 TN, TP, TK, Ash, %M (At Harvest)P4 TN, %MP5 % MoistureP6 NIRP7 Other: \_\_\_\_\_

### Process Waste Water (lagoon)

L1 EC, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)L3 L1 + Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Biennially)L4 Other: \_\_\_\_\_

### Manure

M1 TN, TP, TK, %M (2/year)M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)M3 Other: \_\_\_\_\_

### Soil

S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>SS2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TNS3 NO<sub>3</sub>N, NH<sub>4</sub>NS4 Other: \_\_\_\_\_

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH <sub>3</sub> N*	pH	Temp
1	Dom 1	Dom	3/1/23 11:00	SEAN	0		
2							
3							
4							
5							
6							
7							
8							

\* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling &amp; Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES: \_\_\_\_\_

### CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 <sup>st</sup>	<u>JM</u>	<u>TAS</u>		3/1/23 12:30
2 <sup>nd</sup>	<u>EM</u>	<u>FCL</u>	3/1/23 15:45	
3 <sup>rd</sup>	<u>EM</u>	<u>FCL</u>		3/1/23 16:00
4 <sup>th</sup>	<u>JM</u>		3/1/23 16:01	

LABORATORY USE ONLY

Logged In By: GLSTotal Samples: 21183Laboratory #: 772

GLS MLC 3/2/23 1205



March 21, 2023

**Lab No.** : VI 2341450  
**Customer No.** : 4018573  
**Reference** : 40213

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

### Laboratory Report

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

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

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dom 2	03/08/2023	03/08/2023	VI 2341450-001	DW

### Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

### Test Summary

SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-03-21

Section: Case Narrative

Page 1 of 3

Page 1 of 3

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

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

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

**Office & Laboratory**  
 3442 Empresa Drive, Suite D  
 San Luis Obispo, CA 93401  
 TEL: (805)783-2940  
 FAX: (805)783-2912  
 CA ELAP Certification No. 2775

**Office & Laboratory**  
 9415 W. Goshen Avenue  
 Visalia, CA 93291  
 TEL: (559)734-9473  
 FAX: (559)734-8435  
 CA ELAP Certification No. 2810



March 21, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : Dom 2  
 Project : 0461 Sweet Haven Dairy

Lab No. : VI 2341450-001  
 Customer No.: 4018573  
 Reference : 40213  
 Sampled On : March 8, 2023 at 11:15  
 Sampled By : Sean  
 Received On : March 8, 2023 at 16:20  
 Matrix : Drinking Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	03/09/2023	13:30	Ifs	SM 4500-NO3 F	03/09/2023	14:16	Ifs
Conductivity	477	1	umhos/cm	1600 <sup>2</sup>	1		03/15/2023	16:12	amm	SM 4500-H+B	03/15/2023	18:05	amm

DQF Flags Definition:  
 U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution  
 MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.



March 21, 2023

**Innovative Ag Services, LLC**

Lab No. : VI 2341450

Customer No. : 4018573

**Quality Control - Wet Chem**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(STK2332731-001)	Dup	umhos/cm		1.84%	5	
Nitrate Nitrogen	4500NO3F	03/09/2023:202614LFS (CC 2380747-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	97.5% 73.4% 74.5% 0.4%	<0.4 80-120 66-125 66-125 ≤30.4	

**Definition**

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

**Laboratory Analysis Work Order**

Nº 40213

ID: # 04612341450LABORATORY: FGISITE NAME: SWEET HAWTHORN DAIRY  
Billing: TAB**ANALYSIS TO BE COMPLETED:****Irrigation/Ground Water (ELAP Standards)**

- W1 EC, NO<sub>3</sub>N (Dom)  
W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)  
W3 NH<sub>4</sub>N (Ammonium) *(W1 - S4)*  
W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)  
W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)  
W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)  
W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)  
W8 Other: \_\_\_\_\_

**Plant Tissue**

- P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)  
P2 TN, P, K (Mid-season - Corn)  
P3 TN, TP, TK, Ash, %M (At Harvest)  
P4 TN, %M  
P5 % Moisture  
P6 NIR  
P7 Other: \_\_\_\_\_

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH <sub>3</sub> N*	pH	Temp
1	Dom 2	Dair	W11	3/8/23 11:15	SEAN	0	
2							
3							
4							
5							
6							
7							
8							

\* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling &amp; Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

**CHAIN OF CUSTODY RECORDING**

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 <sup>st</sup>	<i>JAN</i>	<i>TAB</i>		3/8/23 2:48
2 <sup>nd</sup>	<i>EMA</i>	<i>FGI</i>	3/8/23 16:05	
3 <sup>rd</sup>	<i>EMA</i>	<i>FGI</i>		3/8/23 16:20
4 <sup>th</sup>	<i>MA</i>			

LABORATORY USE ONLY ✓  
Logged In By: GD Total Samples: 2 Laboratory #: \_\_\_\_\_

GLS INC 3/9/22 1220



July 11, 2023

**Lab No.** : VI 2343911  
**Customer No.** : 4018573  
**Reference** : 40947

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

### Laboratory Report

**Introduction:** This report package contains a total of 7 pages divided into 3 sections:

- |                 |           |   |
|-----------------|-----------|---|
| Case Narrative  | (1 page)  | : An overview of the work performed at FGL. |
| Sample Results  | (3 pages) | : Results for each sample submitted.        |
| Quality Control | (3 pages) | : Supporting Quality Control (QC) results.  |

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Well 5-6	06/20/2023	06/20/2023	VI 2343911-001	AGW
Well 1	06/20/2023	06/20/2023	VI 2343911-002	AGW
Well 3	06/20/2023	06/20/2023	VI 2343911-003	AGW

### Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

### Test Summary

EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-07-11

Section: Case Narrative

Page 1 of 7

Page 1 of 7

<b>Corporate Offices &amp; Laboratory</b> 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	<b>Office &amp; Laboratory</b> 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	<b>Office &amp; Laboratory</b> 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	<b>Office &amp; Laboratory</b> 3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	<b>Office &amp; Laboratory</b> 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810
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July 11, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : Well 5-6  
 Project : 0461 Sweet Haven Dairy

Lab No. : VI 2343911-001  
 Customer No.: 4018573  
 Reference : 40947  
 Sampled On : June 20, 2023 at 12:45  
 Sampled By : Henry  
 Received On : June 20, 2023 at 15:52  
 Matrix : Ag Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Alkalinity (as CaCO <sub>3</sub> )	110	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	06:14	amm
Bicarbonate	130	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	06:14	amm
Carbonate	ND	10	mg/L		1	U	06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	06:14	amm
Hydroxide	ND	10	mg/L		1	U	06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	06:14	amm
Chloride	95	1	mg/L		1		06/21/2023	11:16	ldm	EPA 300.0	06/21/2023	18:35	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	17:54	lcr
Nitrate Nitrogen	3.4	0.1	mg/L		1		06/21/2023	11:16	ldm	EPA 300.0	06/21/2023	18:35	ldm
Nitrogen, Total as Nitrogen	3.4	0.5	mg/L		1		07/03/2023	12:54	sta	Calc.	07/06/2023	17:54	lcr
Nitrate + Nitrite as N	3.4	0.1	mg/L		1		06/21/2023	11:16	ldm	EPA 300.0	06/21/2023	18:35	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	17:54	lcr
Conductivity	633	1	umhos/cm		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	06:14	amm
Sulfate Sulfur	17.1	0.17	mg/L		1		06/21/2023	11:16	ldm	EPA 300.0	06/21/2023	18:35	ldm
Solids, Total Dissolved (TDS)	420	20	mg/L		1		06/21/2023	16:30	ctl	SM 2540 C	06/22/2023	12:00	ctl
Calcium	55	1	mg/L		1		06/22/2023	22:49	ejc	EPA 200.7	06/23/2023	11:55	ac
Magnesium	4	1	mg/L		1		06/22/2023	22:49	ejc	EPA 200.7	06/23/2023	11:55	ac
Sodium	58	1	mg/L		1		06/22/2023	22:49	ejc	EPA 200.7	06/23/2023	11:55	ac

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution



July 11, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : Well 1  
 Project : 0461 Sweet Haven Dairy

Lab No. : VI 2343911-002  
 Customer No.: 4018573  
 Reference : 40947  
 Sampled On : June 20, 2023 at 13:00  
 Sampled By : Henry  
 Received On : June 20, 2023 at 15:52  
 Matrix : Ag Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	17:57	lcr
Nitrate Nitrogen	3.4	0.4	mg/L		1		06/21/2023	12:45	lfs	SM 4500-NO3 F	06/21/2023	13:41	lfs
Nitrogen, Total as Nitrogen	3.4	0.5	mg/L		1		07/03/2023	12:54	sta	Calc.	07/06/2023	17:57	lcr
Nitrate + Nitrite as N	3.4	0.4	mg/L		1		06/21/2023	12:45	lfs	SM 4500-NO3 F	06/21/2023	13:41	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	17:57	lcr
Conductivity	556	1	umhos/cm		1		06/27/2023	21:22	amm	SM 4500-H+B	06/28/2023	06:20	amm
Solids, Total Dissolved (TDS)	330	20	mg/L		1		06/22/2023	13:50	ctl	SM 2540 C	06/23/2023	11:25	ctl

DQF Flags Definition:  
 U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution



July 11, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : Well 3  
 Project : 0461 Sweet Haven Dairy

Lab No. : VI 2343911-003  
 Customer No.: 4018573  
 Reference : 40947  
 Sampled On : June 20, 2023 at 13:10  
 Sampled By : Henry  
 Received On : June 20, 2023 at 15:52  
 Matrix : Ag Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	18:09	lcr
Nitrate Nitrogen	3.2	0.4	mg/L		1		06/21/2023	12:45	lfs	SM 4500-NO3 F	06/21/2023	13:43	lfs
Nitrogen, Total as Nitrogen	3.2	0.5	mg/L		1		07/03/2023	12:54	sta	Calc.	07/06/2023	18:09	lcr
Nitrate + Nitrite as N	3.2	0.4	mg/L		1		06/21/2023	12:45	lfs	SM 4500-NO3 F	06/21/2023	13:43	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	18:09	lcr
Conductivity	656	1	umhos/cm		1		06/27/2023	21:22	amm	SM 4500-H+B	06/28/2023	06:35	amm
Solids, Total Dissolved (TDS)	410	20	mg/L		1		06/22/2023	13:50	ctl	SM 2540 C	06/23/2023	11:25	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution



July 11, 2023

**Innovative Ag Services, LLC**

Lab No. : VI 2343911

Customer No. : 4018573

**Quality Control - Metals**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Calcium	200.7	06/22/2023:206896EJC (STK2338115-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 92.2% 191% 97.0% 7.7% 49.5% 61.4% 1.2%	<1 85-115 <1/4 75-125 ≤20.0 <1/4 <1/4 ≤20.0	406
Magnesium	200.7	06/22/2023:206896EJC (STK2338115-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 102% 135% 96.0% 7.1% 81.4% 86.9% 1.3%	<1 85-115 <1/4 75-125 ≤20 75-125 75-125 ≤20	406
Sodium	200.7	06/22/2023:206896EJC (STK2338115-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 96.6% 343% 95.4% 8.1% 63.2% 58.4% 0.5%	<1 85-115 <1/4 75-125 ≤20.0 <1/4 <1/4 ≤20.0	406

**Definition**

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

**Explanation**

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

July 11, 2023  
**Innovative Ag Services, LLC**

Lab No. : VI 2343911  
Customer No. : 4018573

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
Alkalinity (as CaCO3)	2320B	06/26/2023:207047AMM	ND	mg/L		0.8%	10	406
Bicarbonate	2320B	(VI 2343954-002)	Dup	mg/L		1%	10	
E. C.	2320B	(VI 2343954-002)	Dup	umhos/cm		0.3%	5	
	2320B	(VI 2343954-001)	Dup	umhos/cm		0.4%	5	
Solids, Total Dissolved	2540CE	06/21/2023:206775CTL	Blank	mg/L	993.7	ND	<20	
		(VI 2343911-001)	LCS	mg/L		97.4%	90-110	
		(VI 2343911-001)	Dup	mg/L		2.39%	5	
		(VI 2343911-001)	Dup	mg/L		1.12%	5	
	2540CE	06/22/2023:206884CTL	Blank	mg/L	993.7	ND	<20	
		(VI 2343914-001)	LCS	mg/L		98.8%	90-110	
		(VI 2343914-001)	Dup	mg/L		0.6%	5	
		(VI 2343914-001)	Dup	mg/L		1.41%	5	
Chloride	300.0	06/21/2023:206911LDM	Blank	mg/L	(CH 2374025-001)	ND	<1	
			LCS	mg/L		101 %	90-110	
			MS	mg/L		93.9 %	85-121	
			MSD	mg/L		91.5 %	85-121	
			MSRPD	mg/L		1.6%	≤19	
			MS	mg/L		95.0 %	85-121	
			MSD	mg/L		92.9 %	85-121	
			MSRPD	mg/L		1.5%	≤19	
Nitrate + Nitrite as N	300.0	06/21/2023:206911LDM	Blank	mg/L	(CH 2374025-004)	ND	<0.4	
			LCS	mg/L		101 %	90-110	
			MS	mg/L		94.5 %	85-119	
			MSD	mg/L		92.1 %	85-119	
			MSRPD	mg/L		1.6%	≤19	
			MS	mg/L		88.2 %	85-119	
			MSD	mg/L		86.2 %	85-119	
			MSRPD	mg/L		1.1%	≤19	
Nitrate Nitrogen	300.0	06/21/2023:206911LDM	Blank	mg/L	(CH 2374025-001)	ND	<0.4	
			LCS	mg/L		101 %	90-110	
			MS	mg/L		94.5 %	85-119	
			MSD	mg/L		92.1 %	85-119	
			MSRPD	mg/L		1.6%	≤19	
			MS	mg/L		88.2 %	85-119	
			MSD	mg/L		86.2 %	85-119	
			MSRPD	mg/L		1.1%	≤19	
Sulfate Sulfur	300.0	06/21/2023:206911LDM	Blank	mg/L	(CH 2374025-004)	ND	<0.5	
			LCS	mg/L		101 %	90-110	
			MS	mg/L		94.5 %	82-124	
			MSD	mg/L		92.3 %	82-124	
			MSRPD	mg/L		1.6%	≤23	
			MS	mg/L		94.3 %	82-124	
			MSD	mg/L		92.3 %	82-124	
			MSRPD	mg/L		1.3%	≤23	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA	Blank	mg/L	(VI 2343915-003)	ND	<0.5	
			LCS	mg/L		94.2%	73-124	
			MS	mg/L		95.3%	54-136	
			MSD	mg/L		93.4%	54-136	
			MSRPD	mg/L		1.9%	≤27	
			MS	mg/L		93.4%	54-136	

July 11, 2023

**Innovative Ag Services, LLC**

Lab No. : VI 2343911  
 Customer No. : 4018573

**Quality Control - Wet Chem**

<b>Constituent</b>	<b>Method</b>	<b>Date/ID</b>	<b>Type</b>	<b>Units</b>	<b>Conc.</b>	<b>QC Data</b>	<b>DQO</b>	<b>Note</b>
		(VI 2343914-003)	MSD MSRPD	mg/L mg/L	12.00 3.0%	90.6% 3.0%	54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	06/21/2023:206829LFS	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.3%	ND 96.9% 91.8% 91.1% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	06/21/2023:206829LFS	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.3%	ND 96.9% 91.8% 91.1% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	

**Definition**

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

**Explanation**

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.



# Laboratory Analysis Work Order

Nº 40947

ID: #0461

2343911

SITE NAME: Sweet Haven Dairy

Billing: IAS

**ANALYSIS TO BE COMPLETED:**
**Irrigation/Ground Water (ELAP Standards)**
W1 EC, NO<sub>3</sub>N (Dom)W2 EC, NO<sub>3</sub>N, TDS, TN (Irr) *Q01 21.0*W3 NH<sub>4</sub>-N (Ammonium)W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)

W8 Other: \_\_\_\_\_

**Plant Tissue**
P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)

P2 TN, P, K (Mid-season - Corn)

P3 TN, TP, TK, Ash, %M (At Harvest)

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: \_\_\_\_\_

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH <sub>3</sub> N *	pH	Temp.
1 Well 5-6	Irr	W5	12:45 6/20	Henry	—		
2 Well 1	1	W2	1:00 6/20	1	—		
3 Well 3	1	1	1:10 6/20	1	—		
4							
5							
6							
7							
8							

\* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling &amp; Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

**CHAIN OF CUSTODY RECORDING**

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	<i>R. Johnson</i>	IAS		2:00 6/20/23
2nd	<i>EMA</i>	F&L	6/20/23 15:40	
3rd	<i>EMA</i>	F&L		6/20/23 15:57
4th	<i>Q</i>		6/20/23 15:57	

LABORATORY USE ONLY

Logged In By: *GL*Total Samples: *120/93*Laboratory #: *G15*6/21/23  
CDA 1121



July 12, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

**Lab No.** : VI 2344325  
**Customer No.** : 4018573  
**Reference** : 40716

### Laboratory Report

**Introduction:** This report package contains a total of 7 pages divided into 3 sections:

- |                 |           |   |
|-----------------|-----------|---|
| Case Narrative  | (1 page)  | : An overview of the work performed at FGL. |
| Sample Results  | (3 pages) | : Results for each sample submitted.        |
| Quality Control | (3 pages) | : Supporting Quality Control (QC) results.  |

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dom 3	06/27/2023	06/27/2023	VI 2344325-001	DW
8	06/27/2023	06/27/2023	VI 2344325-002	AGW
9B	06/27/2023	06/27/2023	VI 2344325-003	AGW

### Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

### Test Summary

EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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

KD: EHB

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

Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-07-12

Section: Case Narrative

Page 1 of 7

Page 1 of 7

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

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

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

**Office & Laboratory**  
 3442 Empresa Drive, Suite D  
 San Luis Obispo, CA 93401  
 TEL: (805)783-2940  
 FAX: (805)783-2912  
 CA ELAP Certification No. 2775

**Office & Laboratory**  
 9415 W. Goshen Avenue  
 Visalia, CA 93291  
 TEL: (559)734-9473  
 FAX: (559)734-8435  
 CA ELAP Certification No. 2810



July 12, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : Dom 3  
 Project : 0461 Sweet Haven Dairy

Lab No. : VI 2344325-001  
 Customer No.: 4018573  
 Reference : 40716  
 Sampled On : June 27, 2023 at 11:55  
 Sampled By : Henry  
 Received On : June 27, 2023 at 16:02  
 Matrix : Drinking Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Nitrate Nitrogen	5.8	0.4	mg/L	10	1		06/28/2023	12:00	lfs	SM 4500-NO3 F	06/28/2023	14:03	lfs
Conductivity	1050	1	umhos/cm	1600 <sup>2</sup>	1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	20:41	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

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



July 12, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : 8  
 Project : 0461 Sweet Haven Dairy

Lab No. : VI 2344325-002  
 Customer No.: 4018573  
 Reference : 40716  
 Sampled On : June 27, 2023 at 12:05  
 Sampled By : Henry  
 Received On : June 27, 2023 at 16:02  
 Matrix : Ag Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/06/2023	12:12	sta	EPA 351.2	07/11/2023	22:12	lcr
Nitrate Nitrogen	8.4	0.4	mg/L		1		06/28/2023	12:00	lfs	SM 4500-NO3 F	06/28/2023	14:06	lfs
Nitrogen, Total as Nitrogen	8.4	0.5	mg/L		1		07/06/2023	12:12	sta	Calc.	07/11/2023	22:12	lcr
Nitrate + Nitrite as N	8.4	0.4	mg/L		1		06/28/2023	12:00	lfs	SM 4500-NO3 F	06/28/2023	14:06	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/06/2023	12:12	sta	EPA 351.2	07/11/2023	22:12	lcr
Conductivity	941	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	18:55	sta
Solids, Total Dissolved (TDS)	610	20	mg/L		1	I	06/29/2023	13:45	ctl	SM 2540 C	06/30/2023	11:50	ctl

DQF Flags Definition:

U Constituent results were non-detect.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution



July 12, 2023

**Innovative Ag Services, LLC**  
 1201 Delta View Road Suite 5  
 Hanford, CA 93230

Description : 9B  
 Project : 0461 Sweet Haven Dairy

Lab No. : VI 2344325-003  
 Customer No.: 4018573  
 Reference : 40716  
 Sampled On : June 27, 2023 at 12:20  
 Sampled By : Henry  
 Received On : June 27, 2023 at 16:02  
 Matrix : Ag Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Alkalinity (as CaCO <sub>3</sub> )	210	10	mg/L		1		07/03/2023	12:08	amm	SM 4500-H+B	07/04/2023	02:52	amm
Bicarbonate	260	10	mg/L		1		07/03/2023	12:08	amm	SM 4500-H+B	07/04/2023	02:52	amm
Carbonate	ND	10	mg/L		1	U	07/03/2023	12:08	amm	SM 4500-H+B	07/04/2023	02:52	amm
Hydroxide	ND	10	mg/L		1	U	07/03/2023	12:08	amm	SM 4500-H+B	07/04/2023	02:52	amm
Chloride	88	1	mg/L		1		06/28/2023	11:00	ldm	EPA 300.0	06/28/2023	17:02	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/06/2023	12:12	sta	EPA 351.2	07/11/2023	22:15	lcr
Nitrate Nitrogen	3.1	0.1	mg/L		1		06/28/2023	11:00	ldm	EPA 300.0	06/28/2023	17:02	ldm
Nitrogen, Total as Nitrogen	3.1	0.5	mg/L		1		07/06/2023	12:12	sta	Calc.	07/11/2023	22:15	lcr
Nitrate + Nitrite as N	3.1	0.1	mg/L		1		06/28/2023	11:00	ldm	EPA 300.0	06/28/2023	17:02	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/06/2023	12:12	sta	EPA 351.2	07/11/2023	22:15	lcr
Conductivity	758	1	umhos/cm		1		07/03/2023	12:08	amm	SM 4500-H+B	07/04/2023	02:52	amm
Sulfate Sulfur	7.60	0.17	mg/L		1		06/28/2023	11:00	ldm	EPA 300.0	06/28/2023	17:02	ldm
Solids, Total Dissolved (TDS)	450	20	mg/L		1	I	06/29/2023	13:45	ctl	SM 2540 C	06/30/2023	11:50	ctl
Calcium	33	1	mg/L		1		07/04/2023	22:26	ejc	EPA 200.7	07/05/2023	11:51	ac
Magnesium	2	1	mg/L		1		07/04/2023	22:26	ejc	EPA 200.7	07/05/2023	11:51	ac
Sodium	111	1	mg/L		1		07/04/2023	22:26	ejc	EPA 200.7	07/05/2023	11:51	ac

## DQF Flags Definition:

U Constituent results were non-detect.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution



July 12, 2023

**Innovative Ag Services, LLC**

Lab No. : VI 2344325

Customer No. : 4018573

**Quality Control - Metals**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Calcium	200.7	07/04/2023:207286EJC	Blank	mg/L		ND	<1	
		(SP 2311301-001)	LCS	mg/L	12.00	103%	85-115	
			MS	mg/L	12.00	68.7%	<1/4	406
			MSD	mg/L	12.00	59.5%	<1/4	
			MSRPD	mg/L		1.2%	≤20.0	
			MS	mg/L	12.00	55.3%	<1/4	406
			MSD	mg/L	12.00	118%	75-125	
			MSRPD	mg/L		8.4%	≤20.0	
Magnesium	200.7	07/04/2023:207286EJC	Blank	mg/L		ND	<1	
		(SP 2311301-001)	LCS	mg/L	12.00	106%	85-115	
			MS	mg/L	12.00	82.6%	75-125	
			MSD	mg/L	12.00	77.3%	75-125	
			MSRPD	mg/L		1.4%	≤20	
			MS	mg/L	12.00	79.0%	75-125	
			MSD	mg/L	12.00	105%	75-125	
			MSRPD	mg/L		6.9%	≤20	
Sodium	200.7	07/04/2023:207286EJC	Blank	mg/L		ND	<1	
		(SP 2311301-001)	LCS	mg/L	12.00	107%	85-115	
			MS	mg/L	12.00	55.3%	<1/4	406
			MSD	mg/L	12.00	1.58%	<1/4	
			MSRPD	mg/L		3.5%	≤20.0	
			MS	mg/L	12.00	-11.7%	<1/4	406
			MSD	mg/L	12.00	118%	75-125	
			MSRPD	mg/L		8.7%	≤20.0	

**Definition**

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

**Explanation**

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

July 12, 2023

**Innovative Ag Services, LLC**Lab No. : VI 2344325  
Customer No. : 4018573**Quality Control - Wet Chem**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
Alkalinity (as CaCO3)	2320B	07/03/2023:207246AMM	ND	mg/L		0.1%	10	406
Bicarbonate	2320B	(SP 2311036-008)	Dup	mg/L		0%	10	
Carbonate	2320B	(SP 2311036-008)	Dup	mg/L			10	
E. C.	2320B	(SP 2311036-008)	Dup	umhos/cm		0.2%	5	
	2320B	(STK2338587-004)	Dup	umhos/cm		0.6%	5	
		(VI 2343664-001)	Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2540CE	06/29/2023:207182CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	103%	90-110	
		(CH 2374559-001)	Dup	mg/L		4.96%	5	
		(CH 2374559-001)	Dup	mg/L		6.31%	5	440
Chloride	300.0	06/28/2023:207162LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	101 %	90-110	
			MS	mg/L	50.00	95.1 %	85-121	
		(SP 2310879-001)	MSD	mg/L	50.00	94.5 %	85-121	
			MSRPD	mg/L	10.00	0.5%	≤19	
			MS	mg/L	50.00	89.2 %	85-121	
		(VI 2344210-028)	MSD	mg/L	50.00	87.4 %	85-121	
			MSRPD	mg/L	10.00	1.0%	≤19	
Nitrate + Nitrite as N	300.0	06/28/2023:207162LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	102 %	90-110	
			MS	mg/L	40.00	101 %	85-119	
		(SP 2310879-001)	MSD	mg/L	40.00	100 %	85-119	
			MSRPD	mg/L	10.00	0.8%	≤19	
			MS	mg/L	40.00	103 %	85-119	
		(VI 2344210-028)	MSD	mg/L	40.00	100 %	85-119	
			MSRPD	mg/L	10.00	2.2%	≤19	
Nitrate Nitrogen	300.0	06/28/2023:207162LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	102 %	90-110	
			MS	mg/L	40.00	101 %	85-119	
		(SP 2310879-001)	MSD	mg/L	40.00	100 %	85-119	
			MSRPD	mg/L	10.00	0.8%	≤19	
			MS	mg/L	40.00	103 %	85-119	
		(VI 2344210-028)	MSD	mg/L	40.00	100 %	85-119	
			MSRPD	mg/L	10.00	2.2%	≤19	
Sulfate Sulfur	300.0	06/28/2023:207162LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	102 %	90-110	
			MS	mg/L	100.0	93.7 %	82-124	
		(SP 2310879-001)	MSD	mg/L	100.0	93.0 %	82-124	
			MSRPD	mg/L	10.00	0.5%	≤23	
			MS	mg/L	100.0	98.4 %	82-124	
		(VI 2344210-028)	MSD	mg/L	100.0	96.4 %	82-124	
			MSRPD	mg/L	10.00	1.5%	≤23	
Nitrogen, Total Kjeldahl	351.2	07/06/2023:207387STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	93.4%	73-124	
			MS	mg/L	12.00	88.8%	54-136	
		(STK2338278-002)	MSD	mg/L	12.00	92.3%	54-136	
			MSRPD	mg/L		3.2%	≤27	
			MS	mg/L	12.00	72.8%	54-136	
		(VI 2344324-002)	MSD	mg/L	12.00	59.5%	54-136	
			MSRPD	mg/L		20.3%	≤27	

July 12, 2023

**Innovative Ag Services, LLC**

Lab No. : VI 2344325  
 Customer No. : 4018573

**Quality Control - Wet Chem**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Nitrate + Nitrite as N	4500NO3F	06/28/2023:207139LFS (SP 2310896-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.1%	98.9% 92.4% 92.2% 0.1%	80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	06/28/2023:207139LFS (SP 2310896-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.1%	98.9% 92.4% 92.2% 0.1%	80-120 66-125 66-125 ≤30.4	

**Definition**

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

**Explanation**

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.
- 440 : Sample nonhomogeneity may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



2344325

## Laboratory Analysis Work Order

Nº 40716

ID: #0461

SITE NAME: Sweet Haven Dairy

201

Billing: IAS

4.8°

LABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

## ANALYSIS TO BE COMPLETED:

## Irrigation/Ground Water (ELAP Standards)

W1 EC, NO<sub>3</sub>N (Dom)W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)W3 NH<sub>4</sub>-N (Ammonium)W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dam ILRP, Annually)W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)

W8 Other: \_\_\_\_\_

## Plant Tissue

P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)

P2 TN, P, K (Mid-season - Com)

P3 TN, TP, TK, Ash, %M (At Harvest)

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: \_\_\_\_\_

## Process Waste Water (lagoon)

L1 EC, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)L3 L1 + Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Biennially)

L4 Other: \_\_\_\_\_

## Manure

M1 TN, TP, TK, %M (2/year)

M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)

M3 Other: \_\_\_\_\_

## Soil

S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>SS2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TNS3 NO<sub>3</sub>N, NH<sub>4</sub>N

S4 Other: \_\_\_\_\_

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH <sub>3</sub> N *	pH	Temp
1	Dam 3	W1	11:55 6/27	Henry	—		
2	8	W2	12:05	1	—		
3	9B	W5	12:20	1	—		
4							
5							
6							
7							
8							

\* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling &amp; Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

GLS 10/27/23  
CDA 10/14

## CHAIN OF CUSTODY RECORDING

Signature	Company	Received Date & Time	Relinquished Date & Time
AB	IAS	6/27/23 1545	2:00 6/27/23
AB	FGL	6/27/23 1545	6/27/23 1602
AB	FGL	6/27/23 1602	6/27/23 1730
AB	FGL	6/27/23 1730	

LABORATORY USE ONLY

Logged In By: \_\_\_\_\_

Total Samples: \_\_\_\_\_

Laboratory #: \_\_\_\_\_