



Still Waters Ranch, LLC

2023 Annual Report

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

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

(See attached delivery confirmation)

Annual Report

Still Waters Ranch, LLC 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy Still Waters Ranch, LLC
Facility Address 5001 4th Avenue, Hanford CA 93230

Owner/Operator as of 12/31/2023

Operator Name David te Velde
Operator Phone (559) 707-5038
Owner Name David te Velde
Owner Phone (559) 707-5038

1. Beginning and end dates of the annual reporting period: crops harvested January 1, 2023 through December 31, 2023.
2. Maximum and average number and type of animals (see Attachment A).
3. Estimated amount of total manure and process wastewater generated by the facility (see Attachment A).
4. Estimated amount of total manure and process wastewater applied to each land application area (see Attachment B).
5. Quantified ratio of total nitrogen applied to land application areas and total nitrogen removed by crop harvest (see Attachment B).
6. Estimated amount of total manure and process wastewater transferred to other persons by the facility (see Attachment C).
7. Total number of acres and the Assessor Parcel Numbers for all land application areas that were not used for application of manure or process wastewater (see Attachment D).
8. Total number of acres and the Assessor Parcel Numbers for all land application areas that were used for land application of manure and process wastewater (see Attachment D).
9. Summary of manure and process wastewater discharges from the production area
Provide a summary of all manure and wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan, that occurred during the annual reporting period, including the date, time, location, approximate volume, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:
 No discharges occurred during the reporting period.
 Yes. _____ Number of discharges occurred (see Attachment H).

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10. Summary of storm water discharges from the production area

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

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

11. Summary of discharges from the land application area

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

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

12. Nutrient Management Plan update

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

- No.
 Yes, the new NMP was developed and approved by a Certified Nutrient Management Specialist.

13. Manure/Process Wastewater Tracking Manifests

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

- No.
 Yes, see attached manifests.

14. Written Agreements

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

- Not applicable; no written agreements.
 No changes in agreement(s).
 Yes, a new or revised agreement is attached.

15. Laboratory Analyses for Discharges

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

- Not Applicable.
 Yes, provided with Attachment H, I, or J for #9, 10 and 11, respectively.

16. Tabulated Nutrient Analytical Data

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

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

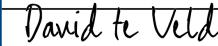
DocuSigned by:



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Signature of Operator of Facility

DocuSigned by:



A0820FC4647A4AF...

Signature of Owner of Facility

David te Velde

Print Name

David te Velde

Print Name

6/26/2024

Title and Date

6/26/2024

Title and Date

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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	5,265	5,133	Milk Freestall -	1,400	130,269.83	1,854,809.55	318,502.65	430,915.35	3,383,622.27
Hol Dry Cows	730	711	Flushed	1,450	10,374.99	129,757.50	18,166.05	85,639.95	183,113.78
Hol Heifers(15-24)	2,500	2,437	Flushed	1,000	25,438.69	338,011.90	53,370.30	160,110.90	627,634.73
Hol Heifers (7-14)	2,060	2,008	Flushed	750	19,311.49	190,559.20	32,248.48	109,938.00	242,413.29
Hol Calves (4-6)	960	940	Dry Scrape	300	3,259.45	48,034.00	13,724.00	27,448.00	22,507.36
	11,515	11,229			188,654.45	2,561,172.15	436,011.48	814,052.20	4,459,291.43

* 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)**
77,526,613	537.50	59.52	986.25	6,557.50	347,115.72	38,441.05	636,916.98	4,234,811.7

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

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

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

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Nutrient Applications (Attachment B)

Field Name: 1

Tomatoes, 77 Acres Planted on 04/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				%	Moist.	Nitrogen	Phos.								
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00					1,078					
04/03/2023	Ground Water: Well Avg	4.00	Acre Inches		15.30					1,066	0	0	38,318		
05/05/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					799	0	0	28,738		
05/16/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,053	0	0	0		
05/16/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					799	0	0	28,738		
05/27/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					799	0	0	28,738		
06/07/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,053	0	0	0		
06/07/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					799	0	0	28,738		
06/18/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					799	0	0	28,738		
06/29/2023	Ground Water: Well Avg	2.00	Acre Inches		15.30					533	0	0	19,158		
07/10/2023	Ground Water: Well Avg	2.00	Acre Inches		15.30					533	0	0	19,158		
07/21/2023	Ground Water: Well Avg	2.00	Acre Inches		15.30					533	0	0	19,158		
08/01/2023	Harvest	64.50	Tons	93.70	1.64	0.39	3.03	%						10,263	
Acre Inches Applied:		25.00							Totals:		11,844	0	0	239,482	10,263
Season Nitrogen Ratio:		1.15							Lbs Per Acre:		154	0	0	3,110	133

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Nutrient Applications (Attachment B)

Field Name: 2

Tomatoes, 72 Acres Planted on 04/23/2023

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			%			1,008				
04/01/2023	Ground Water: Well Avg	4.00	Acre Inches	15.30			mg/L			996	0	0	35,829	
05/03/2023	Ground Water: Well Avg	3.00	Acre Inches	15.30			mg/L			747	0	0	26,872	
05/14/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%			1,920	0	0	0	
05/14/2023	Ground Water: Well Avg	3.00	Acre Inches	15.30			mg/L			747	0	0	26,872	
05/25/2023	Ground Water: Well Avg	3.00	Acre Inches	15.30			mg/L			747	0	0	26,872	
06/05/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%			1,920	0	0	0	
06/05/2023	Ground Water: Well Avg	3.00	Acre Inches	15.30			mg/L			747	0	0	26,872	
06/16/2023	Ground Water: Well Avg	3.00	Acre Inches	15.30			mg/L			747	0	0	26,872	
06/27/2023	Ground Water: Well Avg	2.00	Acre Inches	15.30			mg/L			498	0	0	17,914	
07/08/2023	Ground Water: Well Avg	2.00	Acre Inches	15.30			mg/L			498	0	0	17,914	
07/19/2023	Ground Water: Well Avg	2.00	Acre Inches	15.30			mg/L			498	0	0	17,914	
08/01/2023	Harvest	63.80	Tons	93.70	1.79	0.38	2.92	%						10,360
Acre Inches Applied:		25.00		Totals:						11,075	0	0	223,932	10,360
Season Nitrogen Ratio:		1.07		Lbs Per Acre:						154	0	0	3,110	144

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Nutrient Applications (Attachment B)

Field Name: 2B

Tomatoes, 80 Acres Planted on 04/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				%	Moist.	Nitrogen	Phos.								
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00					1,120					
03/30/2023	Ground Water: Well Avg	4.00	Acre Inches		15.30					1,107	0	0	39,810		
05/01/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					830	0	0	29,858		
05/12/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,133	0	0	0		
05/12/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					830	0	0	29,858		
05/23/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					830	0	0	29,858		
06/03/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,133	0	0	0		
06/03/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					830	0	0	29,858		
06/14/2023	Ground Water: Well Avg	2.00	Acre Inches		15.30					554	0	0	19,905		
06/25/2023	Ground Water: Well Avg	2.00	Acre Inches		15.30					554	0	0	19,905		
07/06/2023	Ground Water: Well Avg	2.00	Acre Inches		15.30					554	0	0	19,905		
07/17/2023	Ground Water: Well Avg	2.00	Acre Inches		15.30					554	0	0	19,905		
08/01/2023	Harvest	66.50	Tons		94.30	1.78	0.37	3.09	%					10,795	
Acre Inches Applied:		24.00							Totals:		12,029	0	0	238,860	10,795
Season Nitrogen Ratio:		1.11							Lbs Per Acre:		150	0	0	2,986	135

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Nutrient Applications (Attachment B)

Field Name: 7

Tomatoes, 82 Acres Planted on 04/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00					1,148				
04/05/2023	Ground Water: Well Avg	4.10	Acre Inches		15.30					1,164	0	0	41,826	
05/07/2023	Ground Water: Well Avg	2.70	Acre Inches		15.30					766	0	0	27,544	
05/18/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,186	0	0	0	
05/18/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					851	0	0	30,604	
05/29/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					851	0	0	30,604	
06/09/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,186	0	0	0	
06/09/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					851	0	0	30,604	
06/20/2023	Ground Water: Well Avg	3.00	Acre Inches		15.30					851	0	0	30,604	
07/01/2023	Ground Water: Well Avg	2.40	Acre Inches		15.30					681	0	0	24,484	
07/12/2023	Ground Water: Well Avg	2.40	Acre Inches		15.30					681	0	0	24,484	
07/23/2023	Ground Water: Well Avg	2.30	Acre Inches		15.30					653	0	0	23,463	
08/01/2023	Harvest	64.90	Tons	94.40	1.87	0.41	3.17	%						11,146
Acre Inches Applied:		25.90							Totals:	12,870	0	0	264,216	11,146
Season Nitrogen Ratio:		1.15							Lbs Per Acre:	157	0	0	3,222	136

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Nutrient Applications (Attachment B)

Field Name: 8

Tomatoes, 73 Acres Planted on 04/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				%	Moist.	Nitrogen	Phos.	Potass.	Units					
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		1,022				
04/05/2023	Ground Water: Well Avg	4.11	Acre Inches		15.30			mg/L		1,038	0	0	37,326	
05/07/2023	Ground Water: Well Avg	2.67	Acre Inches		15.30			mg/L		675	0	0	24,248	
05/18/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		1,946	0	0	0	0
05/18/2023	Ground Water: Well Avg	2.60	Acre Inches		15.30			mg/L		657	0	0	23,613	
05/29/2023	Ground Water: Well Avg	2.71	Acre Inches		15.30			mg/L		685	0	0	24,611	
06/09/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		1,946	0	0	0	0
06/09/2023	Ground Water: Well Avg	2.57	Acre Inches		15.30			mg/L		649	0	0	23,340	
06/20/2023	Ground Water: Well Avg	2.50	Acre Inches		15.30			mg/L		631	0	0	22,704	
07/01/2023	Ground Water: Well Avg	2.43	Acre Inches		15.30			mg/L		614	0	0	22,069	
07/12/2023	Ground Water: Well Avg	2.36	Acre Inches		15.30			mg/L		596	0	0	21,433	
07/23/2023	Ground Water: Well Avg	2.29	Acre Inches		15.30			mg/L		579	0	0	20,797	
08/01/2023	Harvest	65.20	Tons		94.00	1.74	0.40	3.14	%					9,938
Acre Inches Applied:		24.24							Totals:	11,038	0	0	220,141	9,938
Season Nitrogen Ratio:		1.11							Lbs Per Acre:	151	0	0	3,016	136

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Nutrient Applications (Attachment B)

Field Name: 9

Tomatoes, 81 Acres Planted on 04/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00		%			1,134				
04/07/2023	Ground Water: Well Avg	4.10	Acre Inches		15.30		mg/L			1,149	0	0	41,316	
05/09/2023	Ground Water: Well Avg	2.65	Acre Inches		15.30		mg/L			743	0	0	26,704	
05/20/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,159	0	0	0	
05/20/2023	Ground Water: Well Avg	2.59	Acre Inches		15.30		mg/L			726	0	0	26,100	
05/31/2023	Ground Water: Well Avg	2.69	Acre Inches		15.30		mg/L			754	0	0	27,107	
06/11/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,159	0	0	0	
06/11/2023	Ground Water: Well Avg	2.56	Acre Inches		15.30		mg/L			718	0	0	25,797	
06/22/2023	Ground Water: Well Avg	2.50	Acre Inches		15.30		mg/L			701	0	0	25,193	
07/03/2023	Ground Water: Well Avg	2.44	Acre Inches		15.30		mg/L			684	0	0	24,588	
07/14/2023	Ground Water: Well Avg	2.38	Acre Inches		15.30		mg/L			667	0	0	23,983	
07/25/2023	Ground Water: Well Avg	2.31	Acre Inches		15.30		mg/L			647	0	0	23,278	
08/03/2023	Harvest	67.20	Tons	93.80	1.89	0.36	2.84	%						12,757
Acre Inches Applied:		24.22							Totals:	12,242	0	0	244,065	12,757
Season Nitrogen Ratio:		0.96							Lbs Per Acre:	151	0	0	3,013	157

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Nutrient Applications (Attachment B)

Field Name: 10

Tomatoes, 61 Acres Planted on 04/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				%	Moist.	Nitrogen	Phos.							
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%				854				
04/09/2023	Ground Water: Well Avg	4.13	Acre Inches	15.30		mg/L				872	0	0	31,342	
05/11/2023	Ground Water: Well Avg	2.70	Acre Inches	15.30		mg/L				570	0	0	20,490	
05/22/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%			1,626	0	0	0	
05/22/2023	Ground Water: Well Avg	2.62	Acre Inches	15.30		mg/L				553	0	0	19,883	
06/02/2023	Ground Water: Well Avg	2.75	Acre Inches	15.30		mg/L				581	0	0	20,869	
06/13/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%			1,626	0	0	0	
06/13/2023	Ground Water: Well Avg	2.58	Acre Inches	15.30		mg/L				545	0	0	19,579	
06/24/2023	Ground Water: Well Avg	2.50	Acre Inches	15.30		mg/L				528	0	0	18,972	
07/05/2023	Ground Water: Well Avg	2.42	Acre Inches	15.30		mg/L				511	0	0	18,365	
07/16/2023	Ground Water: Well Avg	2.34	Acre Inches	15.30		mg/L				494	0	0	17,758	
07/27/2023	Ground Water: Well Avg	2.25	Acre Inches	15.30		mg/L				475	0	0	17,075	
08/03/2023	Harvest	64.60	Tons	93.80	1.68	0.41	2.94	%						8,209
Acre Inches Applied:		24.29						Totals:		9,235	0	0	184,333	8,209
Season Nitrogen Ratio:		1.12						Lbs Per Acre:		151	0	0	3,022	135

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 11

Tomatoes, 78 Acres Planted on 04/23/2023

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		%				1,092				
03/28/2023	Ground Water: Well Avg	4.10	Acre Inches	15.30		mg/L				1,107	0	0	39,785	
04/29/2023	Ground Water: Well Avg	2.66	Acre Inches	15.30		mg/L				718	0	0	25,812	
05/10/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%			2,079	0	0	0	
05/10/2023	Ground Water: Well Avg	2.60	Acre Inches	15.30		mg/L				702	0	0	25,230	
05/21/2023	Ground Water: Well Avg	2.69	Acre Inches	15.30		mg/L				726	0	0	26,103	
06/01/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%			2,079	0	0	0	
06/01/2023	Ground Water: Well Avg	2.56	Acre Inches	15.30		mg/L				691	0	0	24,841	
06/12/2023	Ground Water: Well Avg	2.50	Acre Inches	15.30		mg/L				675	0	0	24,260	
06/23/2023	Ground Water: Well Avg	2.44	Acre Inches	15.30		mg/L				658	0	0	23,677	
07/04/2023	Ground Water: Well Avg	2.37	Acre Inches	15.30		mg/L				640	0	0	22,998	
07/15/2023	Ground Water: Well Avg	2.31	Acre Inches	15.30		mg/L				623	0	0	22,416	
08/03/2023	Harvest	66.40	Tons	94.30	3.10	0.40	3.00	%						18,303
Acre Inches Applied:		24.23		Totals:						11,791	0	0	235,122	18,303
Season Nitrogen Ratio:		0.64		Lbs Per Acre:						151	0	0	3,014	235

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 12

Tomatoes, 79 Acres Planted on 04/25/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00		%			1,106				
04/05/2023	Ground Water: Well Avg	4.10	Acre Inches		15.30		mg/L			1,121	0	0	40,296	
05/07/2023	Ground Water: Well Avg	2.66	Acre Inches		15.30		mg/L			728	0	0	26,143	
05/18/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,106	0	0	0	0
05/18/2023	Ground Water: Well Avg	2.59	Acre Inches		15.30		mg/L			708	0	0	25,455	
05/29/2023	Ground Water: Well Avg	2.69	Acre Inches		15.30		mg/L			735	0	0	26,438	
06/09/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		2,106	0	0	0	0
06/09/2023	Ground Water: Well Avg	2.56	Acre Inches		15.30		mg/L			700	0	0	25,160	
06/20/2023	Ground Water: Well Avg	2.50	Acre Inches		15.30		mg/L			683	0	0	24,571	
07/01/2023	Ground Water: Well Avg	2.44	Acre Inches		15.30		mg/L			667	0	0	23,980	
07/12/2023	Ground Water: Well Avg	2.37	Acre Inches		15.30		mg/L			648	0	0	23,293	
07/23/2023	Ground Water: Well Avg	2.31	Acre Inches		15.30		mg/L			631	0	0	22,703	
08/03/2023	Harvest	67.25	Tons	94.80	3.32	0.42	2.96	%						18,344
Acre Inches Applied:		24.22							Totals:	11,939	0	0	238,039	18,344
Season Nitrogen Ratio:		0.65							Lbs Per Acre:	151	0	0	3,013	232

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 13

Tomatoes, 82 Acres Planted on 04/29/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
			Units	%	Moist.	Nitrogen	Phos.	Potass.	Units	Phos.	Potass.	Units	Phos.	Potass.
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00		%			1,148					
04/09/2023	Ground Water: Well Avg	4.10 Acre Inches		15.30		mg/L			1,164	0	0	41,826		
05/11/2023	Ground Water: Well Avg	2.65 Acre Inches		15.30		mg/L			752	0	0	27,034		
05/22/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00	%		2,186	0	0	0	0	
05/22/2023	Ground Water: Well Avg	2.59 Acre Inches		15.30		mg/L			735	0	0	26,422		
06/02/2023	Ground Water: Well Avg	2.68 Acre Inches		15.30		mg/L			760	0	0	27,340		
06/13/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00	%		2,186	0	0	0	0	
06/13/2023	Ground Water: Well Avg	2.56 Acre Inches		15.30		mg/L			727	0	0	26,115		
06/24/2023	Ground Water: Well Avg	2.50 Acre Inches		15.30		mg/L			709	0	0	25,504		
07/05/2023	Ground Water: Well Avg	2.44 Acre Inches		15.30		mg/L			692	0	0	24,891		
07/16/2023	Ground Water: Well Avg	2.38 Acre Inches		15.30		mg/L			676	0	0	24,279		
07/27/2023	Ground Water: Well Avg	2.32 Acre Inches		15.30		mg/L			658	0	0	23,668		
08/07/2023	Harvest	64.70 Tons	94.50	2.76	0.40	2.55	%						16,107	
Acre Inches Applied:		24.22						Totals:	12,393	0	0	247,078	16,107	
Season Nitrogen Ratio:		0.77						Lbs Per Acre:	151	0	0	3,013	196	

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 14

Tomatoes, 75 Acres Planted on 04/29/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
			Units	%	Moist.	Nitrogen	Phos.	Potass.	Units					
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00		%			1,050					
04/07/2023	Ground Water: Well Avg	4.11 Acre Inches		15.30		mg/L			1,066	0	0	38,348		
05/09/2023	Ground Water: Well Avg	2.67 Acre Inches		15.30		mg/L			693	0	0	24,913		
05/20/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00	%		2,000	0	0	0		
05/20/2023	Ground Water: Well Avg	2.60 Acre Inches		15.30		mg/L			675	0	0	24,260		
05/31/2023	Ground Water: Well Avg	2.70 Acre Inches		15.30		mg/L			700	0	0	25,192		
06/11/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00	%		2,000	0	0	0		
06/11/2023	Ground Water: Well Avg	2.57 Acre Inches		15.30		mg/L			667	0	0	23,980		
06/22/2023	Ground Water: Well Avg	2.50 Acre Inches		15.30		mg/L			649	0	0	23,326		
07/03/2023	Ground Water: Well Avg	2.43 Acre Inches		15.30		mg/L			631	0	0	22,673		
07/14/2023	Ground Water: Well Avg	2.37 Acre Inches		15.30		mg/L			615	0	0	22,114		
07/25/2023	Ground Water: Well Avg	2.30 Acre Inches		15.30		mg/L			597	0	0	21,460		
08/07/2023	Harvest	67.00 Tons	94.30	2.50	0.31	2.20	%						14,321	
Acre Inches Applied:		24.25						Totals:		11,342	0	0	226,267	14,321
Season Nitrogen Ratio:		0.79						Lbs Per Acre:		151	0	0	3,017	191

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 15

Wheat, 150 Acres Planted on 12/17/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
			Units	%	Moist.	Nitrogen	Phos.	Potass.	Units	Applied (Lbs)	Applied (Lbs)	Applied (Lbs)
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00					%	2,100		
01/10/2023	Surface Water: Alta	4.52 Acre Inches		0.00					mg/L	0	0	0
01/10/2023	Waste Water: Main Lagoon	0.42 Acre Inches		641.00	44.60	952.00		mg/L		1,710,721	9,135	636
03/09/2023	Surface Water: Alta	4.70 Acre Inches		0.00				mg/L		0	0	0
03/09/2023	Waste Water: Main Lagoon	0.43 Acre Inches		439.00	88.30	1,020.0		mg/L		1,751,452	6,405	1,288
05/06/2023	Surface Water: Alta	4.67 Acre Inches		0.00				mg/L		0	0	0
05/06/2023	Waste Water: Main Lagoon	0.43 Acre Inches		456.00	48.70	842.00		mg/L		1,751,452	6,652	711
05/21/2023	Harvest	22.90 Tons		61.30	0.66	0.15	0.50	%				
Acre Inches Applied:		15.17						Totals:		5,213,626	24,292	2,636
Season Nitrogen Ratio:		1.39						Lbs Per Acre:		162	18	272
											2,070	116

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 15

Corn, 150 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)	
				% Moist.	Nitrogen	Phos.								
06/25/2023	Surface Water: Alta	5.87	Acre Inches		0.00				0	0	0	5,974		
06/25/2023	Waste Water: Main Lagoon	0.46	Acre Inches		456.00	48.70	842.00	mg/L	1,873,647	7,118	760	13,142	87,714	
07/10/2023	Ground Water: Well Avg	6.46	Acre Inches		15.30			mg/L		3,354	0	0	120,550	
07/25/2023	Ground Water: Well Avg	5.91	Acre Inches		15.30			mg/L		3,068	0	0	110,288	
07/25/2023	Waste Water: Main Lagoon	0.47	Acre Inches		572.00	54.80	903.00	mg/L	1,914,378	9,122	874	14,400	118,324	
08/08/2023	Ground Water: Well Avg	6.50	Acre Inches		15.30			mg/L		3,375	0	0	121,298	
08/22/2023	Ground Water: Well Avg	5.87	Acre Inches		15.30			mg/L		3,046	0	0	109,540	
08/22/2023	Waste Water: Main Lagoon	0.46	Acre Inches		572.00	54.80	903.00	mg/L	1,873,647	8,928	855	14,094	115,808	
09/01/2023	Ground Water: Well Avg	6.25	Acre Inches		15.30			mg/L		3,244	0	0	116,632	
09/12/2023	Harvest	32.40	Tons	72.30	1.13	0.28	1.50	%					30,424	
Acre Inches Applied:		38.25					Totals:		5,661,672	41,254	2,490	41,636	906,129	30,424
Season Nitrogen Ratio:		1.36					Lbs Per Acre:		275	17	278	6,041	203	

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 16

Wheat, 9 Acres Planted on 12/17/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.	Potass.	Units						
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		126				
01/08/2023	Surface Water: Alta	3.43	Acre Inches		0.00			mg/L		0	0	0	210	
01/08/2023	Waste Water: Main Lagoon	0.32	Acre Inches		641.00	44.60	952.00	mg/L	78,204	418	29	620	5,974	
03/07/2023	Surface Water: Alta	6.87	Acre Inches		0.00			mg/L		0	0	0	420	
03/07/2023	Waste Water: Main Lagoon	0.63	Acre Inches		439.00	88.30	1,020.0	mg/L	153,965	563	113	1,308	7,362	
05/04/2023	Surface Water: Alta	6.29	Acre Inches		0.00			mg/L		0	0	0	384	
05/04/2023	Waste Water: Main Lagoon	0.58	Acre Inches		456.00	48.70	842.00	mg/L	141,745	538	58	994	6,636	
05/21/2023	Harvest	23.10	Tons		61.20	0.75	0.16	0.54	%					1,208
Acre Inches Applied:		18.12						Totals:	373,915	1,645	200	2,922	20,984	1,208
Season Nitrogen Ratio: 1.36				Lbs Per Acre:					183	22	325	2,332	134	

Still Waters Ranch, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 17

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				%	Moist.	Nitrogen							
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			126				
	Acre Inches Applied:	0.00					Totals:			126			
Season Nitrogen Ratio:					Lbs Per Acre:					14			
Season Notes:	Fallow.												

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 20

Tomatoes, 79 Acres Planted on 05/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				%	Moist.	Nitrogen							
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			1,106				
04/11/2023	Ground Water: Well Avg	4.10	Acre Inches	15.30		mg/L			1,121	0	0	40,296	
05/13/2023	Ground Water: Well Avg	2.66	Acre Inches	15.30		mg/L			728	0	0	26,143	
05/24/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%		2,106	0	0	0	
05/24/2023	Ground Water: Well Avg	2.59	Acre Inches	15.30		mg/L			708	0	0	25,455	
06/04/2023	Ground Water: Well Avg	2.69	Acre Inches	15.30		mg/L			735	0	0	26,438	
06/15/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	%		2,106	0	0	0	
06/15/2023	Ground Water: Well Avg	2.56	Acre Inches	15.30		mg/L			700	0	0	25,160	
06/26/2023	Ground Water: Well Avg	2.50	Acre Inches	15.30		mg/L			683	0	0	24,571	
07/07/2023	Ground Water: Well Avg	2.44	Acre Inches	15.30		mg/L			667	0	0	23,980	
07/18/2023	Ground Water: Well Avg	2.37	Acre Inches	15.30		mg/L			648	0	0	23,293	
07/29/2023	Ground Water: Well Avg	2.31	Acre Inches	15.30		mg/L			631	0	0	22,703	
08/09/2023	Harvest	63.45	Tons	94.40	2.99	0.40	2.73	%					16,786
Acre Inches Applied:		24.22					Totals:		11,939	0	0	238,039	16,786
Season Nitrogen Ratio:				Lbs Per Acre:					151	0	0	3,013	212

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 21

Tomatoes, 77 Acres Planted on 05/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
			Units	%	Moist.	Nitrogen	Phos.	Potass.	Units				
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00		%				1,078			
04/03/2023	Ground Water: Well Avg	4.10 Acre Inches		15.30		mg/L				1,093	0	0	39,275
05/05/2023	Ground Water: Well Avg	2.66 Acre Inches		15.30		mg/L				709	0	0	25,481
05/16/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00	%			2,053	0	0	0
05/16/2023	Ground Water: Well Avg	2.60 Acre Inches		15.30		mg/L				693	0	0	24,906
05/27/2023	Ground Water: Well Avg	2.69 Acre Inches		15.30		mg/L				717	0	0	25,769
06/07/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00	%			2,053	0	0	0
06/07/2023	Ground Water: Well Avg	2.56 Acre Inches		15.30		mg/L				682	0	0	24,523
06/18/2023	Ground Water: Well Avg	2.50 Acre Inches		15.30		mg/L				666	0	0	23,949
06/29/2023	Ground Water: Well Avg	2.44 Acre Inches		15.30		mg/L				650	0	0	23,373
07/10/2023	Ground Water: Well Avg	2.37 Acre Inches		15.30		mg/L				631	0	0	22,703
07/21/2023	Ground Water: Well Avg	2.31 Acre Inches		15.30		mg/L				615	0	0	22,128
08/09/2023	Harvest	64.80 Tons	95.20	2.65	0.40	3.03	%						12,693
Acre Inches Applied:		24.23						Totals:		11,640	0	0	232,108
Season Nitrogen Ratio:		0.92						Lbs Per Acre:		151	0	0	3,014
													165

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 22

Tomatoes, 79 Acres Planted on 05/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
			Units	%	Moist.	Nitrogen	Phos.	Potass.	Units				
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00		%				1,106			
04/11/2023	Ground Water: Well Avg	4.10 Acre Inches		15.30		mg/L				1,121	0	0	40,296
05/13/2023	Ground Water: Well Avg	2.66 Acre Inches		15.30		mg/L				728	0	0	26,143
05/24/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00 %				2,106	0	0	0
05/24/2023	Ground Water: Well Avg	2.59 Acre Inches		15.30		mg/L				708	0	0	25,455
06/04/2023	Ground Water: Well Avg	2.69 Acre Inches		15.30		mg/L				735	0	0	26,438
06/15/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00 %				2,106	0	0	0
06/15/2023	Ground Water: Well Avg	2.56 Acre Inches		15.30		mg/L				700	0	0	25,160
06/26/2023	Ground Water: Well Avg	2.50 Acre Inches		15.30		mg/L				683	0	0	24,571
07/07/2023	Ground Water: Well Avg	2.44 Acre Inches		15.30		mg/L				667	0	0	23,980
07/18/2023	Ground Water: Well Avg	2.37 Acre Inches		15.30		mg/L				648	0	0	23,293
07/29/2023	Ground Water: Well Avg	2.31 Acre Inches		15.30		mg/L				631	0	0	22,703
08/09/2023	Harvest	68.60 Tons	93.90	2.30	0.34	2.88 %							15,207
Acre Inches Applied:		24.22					Totals:			11,939	0	0	238,039
Season Nitrogen Ratio:		0.79					Lbs Per Acre:			151	0	0	3,013
													192

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 23

Tomatoes, 77 Acres Planted on 05/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
			Units	%	Moist.	Nitrogen	Phos.	Potass.	Units					
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00		%			1,078					
04/06/2023	Ground Water: Well Avg	4.10 Acre Inches		15.30		mg/L			1,093	0	0	39,275		
05/08/2023	Ground Water: Well Avg	2.66 Acre Inches		15.30		mg/L			709	0	0	25,481		
05/19/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00 %			2,053	0	0	0	0	
05/19/2023	Ground Water: Well Avg	2.60 Acre Inches		15.30		mg/L			693	0	0	24,906		
05/30/2023	Ground Water: Well Avg	2.69 Acre Inches		15.30		mg/L			717	0	0	25,769		
06/10/2023	Fertilize - UN32	10.00 Gallons		32.00	0.00	0.00 %			2,053	0	0	0	0	
06/10/2023	Ground Water: Well Avg	2.56 Acre Inches		15.30		mg/L			682	0	0	24,523		
06/21/2023	Ground Water: Well Avg	2.50 Acre Inches		15.30		mg/L			666	0	0	23,949		
07/13/2023	Ground Water: Well Avg	2.44 Acre Inches		15.30		mg/L			650	0	0	23,373		
07/20/2023	Ground Water: Well Avg	2.37 Acre Inches		15.30		mg/L			631	0	0	22,703		
07/24/2023	Ground Water: Well Avg	2.31 Acre Inches		15.30		mg/L			615	0	0	22,128		
08/09/2023	Harvest	72.00 Tons		93.70	2.14	0.34	2.72	%					14,949	
Acre Inches Applied:		24.23					Totals:		11,640	0	0	232,108	14,949	
Season Nitrogen Ratio:		0.78					Lbs Per Acre:		151	0	0	3,014	194	

Still Waters Ranch, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 24

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	%				280				
	Acre Inches Applied:	0.00				Totals:			280				
Season Nitrogen Ratio:					Lbs Per Acre:				14				

Season Notes: Fallow.

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 25

Wheat, 152 Acres Planted on 12/21/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.	Potass.								
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00		%			2,128					
01/14/2023	Surface Water: Alta	4.52	Acre Inches		0.00		mg/L			0	0	0	4,662		
01/14/2023	Waste Water: Main Lagoon	0.42	Acre Inches		641.00	44.60	952.00	mg/L	1,733,531	9,257	644	13,747	132,418		
03/13/2023	Surface Water: Alta	4.70	Acre Inches		0.00		mg/L			0	0	0	4,847		
03/13/2023	Waste Water: Main Lagoon	0.43	Acre Inches		439.00	88.30	1,020.0	mg/L	1,774,805	6,490	1,306	15,080	84,862		
05/10/2023	Surface Water: Alta	4.67	Acre Inches		0.00		mg/L			0	0	0	4,817		
05/10/2023	Waste Water: Main Lagoon	0.43	Acre Inches		456.00	48.70	842.00	mg/L	1,774,805	6,741	720	12,449	83,086		
05/21/2023	Harvest	23.30	Tons	61.30	0.71	0.15	0.50	%						19,462	
Acre Inches Applied:		15.17						Totals:	5,283,141	24,616	2,671	41,276	314,692	19,462	
Season Nitrogen Ratio:		1.26						Lbs Per Acre:							
											162	18	272	2,070	128

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 25

Corn, 152 Acres Planted on 06/27/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
07/09/2023	Surface Water: Alta	5.87	Acre Inches		0.00					0	0	0	6,054	
07/09/2023	Waste Water: Main Lagoon	0.56	Acre Inches		572.00	54.80	903.00	mg/L	2,311,374	11,012	1,055	17,386	142,863	
07/24/2023	Surface Water: Alta	6.46	Acre Inches		0.00			mg/L		0	0	0	6,664	
08/08/2023	Ground Water: Well Avg	5.91	Acre Inches		15.30			mg/L		3,108	0	0	111,758	
08/08/2023	Waste Water: Main Lagoon	0.57	Acre Inches		572.00	54.80	903.00	mg/L	2,352,649	11,210	1,075	17,696	145,414	
08/22/2023	Ground Water: Well Avg	6.50	Acre Inches		15.30			mg/L		3,420	0	0	122,915	
09/05/2023	Ground Water: Well Avg	5.87	Acre Inches		15.30			mg/L		3,087	0	0	111,001	
09/05/2023	Waste Water: Main Lagoon	0.56	Acre Inches		572.00	54.80	903.00	mg/L	2,311,374	11,012	1,055	17,386	142,863	
09/15/2023	Ground Water: Well Avg	6.25	Acre Inches		15.30			mg/L		3,288	0	0	118,188	
09/26/2023	Harvest	31.90	Tons	70.60	1.27	0.29	1.30	%						36,209
Acre Inches Applied:		38.55						Totals:	6,975,397	46,138	3,184	52,467	907,720	36,209
Season Nitrogen Ratio:		1.27						Lbs Per Acre:		304	21	345	5,972	238

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 30

Wheat, 63 Acres Planted on 12/21/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
			Units	%	Moist.	Nitrogen								
01/01/2023	Atmospheric Deposit	14.00 Pounds		100.00		%			882					
01/12/2023	Surface Water: Alta	4.44 Acre Inches		0.00		mg/L			0	0	0	1,898		
01/12/2023	Waste Water: Main Lagoon	0.61 Acre Inches		641.00	44.60	952.00	mg/L		1,043,540	5,572	387	8,276	79,712	
03/11/2023	Surface Water: Alta	4.86 Acre Inches		0.00		mg/L			0	0	0	2,078		
03/11/2023	Waste Water: Main Lagoon	0.65 Acre Inches		439.00	88.30	1,020.0	mg/L		1,111,969	4,066	818	9,448	53,168	
05/08/2023	Surface Water: Alta	4.79 Acre Inches		0.00		mg/L			0	0	0	2,048		
05/08/2023	Waste Water: Main Lagoon	0.34 Acre Inches		456.00	48.70	842.00	mg/L		581,645	2,209	236	4,080	27,229	
05/25/2023	Harvest	20.70 Tons		61.50	1.24	0.25	1.50	%					12,451	
Acre Inches Applied:		15.69					Totals:		2,737,153	12,729	1,441	21,804	166,132	12,451
Season Nitrogen Ratio:		1.02					Lbs Per Acre:		202	23	346	2,637	198	

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 30

Corn, 63 Acres Planted on 07/31/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.								
08/12/2023	Surface Water: Alta	5.97	Acre Inches		0.00				0	0	0	2,552		
08/12/2023	Waste Water: Main Lagoon	0.67	Acre Inches		572.00	54.80	903.00	mg/L	1,146,183	5,461	523	8,622	70,844	
08/27/2023	Ground Water: Well Avg	6.74	Acre Inches		15.30			mg/L		1,470	0	0	52,826	
09/11/2023	Ground Water: Well Avg	6.07	Acre Inches		15.30			mg/L		1,324	0	0	47,574	
09/11/2023	Waste Water: Main Lagoon	0.68	Acre Inches		572.00	54.80	903.00	mg/L	1,163,290	5,543	531	8,750	71,901	
09/25/2023	Ground Water: Well Avg	6.84	Acre Inches		15.30			mg/L		1,491	0	0	53,610	
10/09/2023	Ground Water: Well Avg	5.97	Acre Inches		15.30			mg/L		1,302	0	0	46,791	
10/09/2023	Waste Water: Main Lagoon	0.67	Acre Inches		683.00	46.30	1,180.0	mg/L	1,146,183	6,521	442	11,266	71,130	
10/19/2023	Ground Water: Well Avg	6.25	Acre Inches		15.30			mg/L		1,363	0	0	48,986	
10/30/2023	Harvest	29.70	Tons	62.40	1.26	0.26	0.94	%					17,729	
Acre Inches Applied:		39.86						Totals:	3,455,656	24,474	1,496	28,638	466,214	17,729
Season Nitrogen Ratio:		1.38						Lbs Per Acre:	388	24	455	7,400	281	

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 18-19

Tomatoes, 155 Acres Planted on 05/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units						
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			2,170			
04/04/2023	Ground Water: Well Avg	4.05	Acre Inches		15.30			mg/L			2,173	0	0	78,097
05/06/2023	Ground Water: Well Avg	2.55	Acre Inches		15.30			mg/L			1,369	0	0	49,172
05/17/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%			4,132	0	0	0
05/17/2023	Ground Water: Well Avg	2.55	Acre Inches		15.30			mg/L			1,369	0	0	49,172
05/28/2023	Ground Water: Well Avg	2.60	Acre Inches		15.30			mg/L			1,395	0	0	50,136
06/08/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%			4,132	0	0	0
06/08/2023	Ground Water: Well Avg	2.53	Acre Inches		15.30			mg/L			1,358	0	0	48,786
06/19/2023	Ground Water: Well Avg	2.50	Acre Inches		15.30			mg/L			1,341	0	0	48,208
06/30/2023	Ground Water: Well Avg	2.47	Acre Inches		15.30			mg/L			1,325	0	0	47,630
07/11/2023	Ground Water: Well Avg	2.44	Acre Inches		15.30			mg/L			1,308	0	0	47,050
07/22/2023	Ground Water: Well Avg	2.40	Acre Inches		15.30			mg/L			1,288	0	0	46,280
08/09/2023	Harvest	63.25	Tons	94.30	2.60	0.35	2.52	%						29,058
Acre Inches Applied:		24.09						Totals:			23,360	0	0	464,532
Season Nitrogen Ratio: 0.80				Lbs Per Acre:							151	0	0	2,997
														187

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 26-27

Wheat, 148 Acres Planted on 12/21/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				%	Moist.	Nitrogen								
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			2,072					
01/10/2023	Surface Water: Alta	4.52	Acre Inches	0.00		mg/L			0	0	0	4,539		
01/10/2023	Waste Water: Main Lagoon	0.67	Acre Inches	641.00	44.60	952.00	mg/L	2,692,620	14,377	1,000	21,353	205,679		
03/09/2023	Surface Water: Alta	4.70	Acre Inches	0.00		mg/L			0	0	0	4,720		
03/09/2023	Waste Water: Main Lagoon	0.63	Acre Inches	439.00	88.30	1,020.0	mg/L	2,531,867	9,259	1,862	21,512	121,060		
05/06/2023	Surface Water: Alta	4.67	Acre Inches	0.00		mg/L			0	0	0	4,690		
05/06/2023	Waste Water: Main Lagoon	0.43	Acre Inches	456.00	48.70	842.00	mg/L	1,728,100	6,564	702	12,121	80,900		
05/25/2023	Harvest	22.65	Tons	62.90	1.11	0.23	1.31	%					27,609	
Acre Inches Applied:		15.62					Totals:		6,952,587	32,271	3,564	54,986	421,587	27,609
Season Nitrogen Ratio:		1.17					Lbs Per Acre:		218	24	372	2,849	187	

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 26-27

Corn, 148 Acres Planted on 06/30/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.								
07/12/2023	Surface Water: Alta	5.87	Acre Inches		0.00				0	0	0	5,895		
07/12/2023	Waste Water: Main Lagoon	0.66	Acre Inches		572.00	54.80	903.00	mg/L	2,652,432	12,638	1,211	19,952	163,943	
07/27/2023	Surface Water: Alta	6.46	Acre Inches		0.00			mg/L		0	0	0	6,488	
08/11/2023	Ground Water: Well Avg	5.91	Acre Inches		15.30			mg/L		3,027	0	0	108,817	
08/11/2023	Waste Water: Main Lagoon	0.67	Acre Inches		572.00	54.80	903.00	mg/L	2,692,620	12,830	1,228	20,254	166,427	
08/25/2023	Ground Water: Well Avg	6.50	Acre Inches		15.30			mg/L		3,330	0	0	119,680	
09/08/2023	Ground Water: Well Avg	5.87	Acre Inches		15.30			mg/L		3,006	0	0	108,080	
09/08/2023	Waste Water: Main Lagoon	0.53	Acre Inches		572.00	54.80	903.00	mg/L	2,129,983	10,148	972	16,021	131,652	
09/18/2023	Ground Water: Well Avg	6.25	Acre Inches		15.30			mg/L		3,201	0	0	115,077	
09/29/2023	Harvest	29.40	Tons	69.80	1.31	0.29	1.28	%					34,428	
Acre Inches Applied:		38.72					Totals:		7,475,036	48,180	3,411	56,227	926,060	34,428
Season Nitrogen Ratio:		1.40					Lbs Per Acre:		326	23	380	6,257	233	

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 28-29

Wheat, 148 Acres Planted on 12/21/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data			Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				%	Moist.	Nitrogen							
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			2,072				
01/08/2023	Surface Water: Alta	4.52	Acre Inches	0.00		mg/L			0	0	0	4,539	
01/08/2023	Waste Water: Main Lagoon	0.42	Acre Inches	641.00	44.60	952.00	mg/L	1,687,911	9,013	628	13,385	128,933	
03/07/2023	Surface Water: Alta	4.70	Acre Inches	0.00		mg/L			0	0	0	4,720	
03/07/2023	Waste Water: Main Lagoon	0.43	Acre Inches	439.00	88.30	1,020.0	mg/L	1,728,100	6,320	1,271	14,683	82,628	
05/04/2023	Surface Water: Alta	4.67	Acre Inches	0.00		mg/L			0	0	0	4,690	
05/04/2023	Waste Water: Main Lagoon	0.43	Acre Inches	456.00	48.70	842.00	mg/L	1,728,100	6,564	702	12,121	80,900	
05/25/2023	Harvest	21.70	Tons	62.40	0.77	0.18	0.62	%					18,549
Acre Inches Applied:		15.17		Totals:			5,144,111	23,969	2,600	40,189	306,410	18,549	
Season Nitrogen Ratio: 1.29				Lbs Per Acre:					162	18	272	2,070	125

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 28-29

Corn, 148 Acres Planted on 07/24/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)	
				% Moist.	Nitrogen	Phos.	Potass.								
08/05/2023	Ground Water: Well Avg	5.87	Acre Inches		15.30					3,006	0	0	108,080		
08/05/2023	Waste Water: Main Lagoon	0.66	Acre Inches		572.00	54.80	903.00	mg/L		2,652,432	12,638	1,211	19,952	163,943	
08/20/2023	Ground Water: Well Avg	6.46	Acre Inches		15.30			mg/L			3,309	0	0	118,943	
09/04/2023	Ground Water: Well Avg	5.91	Acre Inches		15.30			mg/L			3,027	0	0	108,817	
09/04/2023	Waste Water: Main Lagoon	0.67	Acre Inches		572.00	54.80	903.00	mg/L		2,692,620	12,830	1,228	20,254	166,427	
09/18/2023	Ground Water: Well Avg	6.50	Acre Inches		15.30			mg/L			3,330	0	0	119,680	
10/02/2023	Ground Water: Well Avg	5.87	Acre Inches		15.30			mg/L			3,006	0	0	108,080	
10/02/2023	Waste Water: Main Lagoon	0.46	Acre Inches		683.00	46.30	1,180.0	mg/L		1,848,665	10,518	713	18,171	114,725	
10/12/2023	Ground Water: Well Avg	6.25	Acre Inches		15.30			mg/L			3,201	0	0	115,077	
10/23/2023	Harvest	30.20	Tons	64.10	1.24	0.26	1.08	%						39,794	
Acre Inches Applied:		38.65							Totals:	7,193,717	54,865	3,152	58,377	1,123,773	39,794
Season Nitrogen Ratio:		1.38							Lbs Per Acre:		371	21	394	7,593	269

Still Waters Ranch, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 31-32

Alfalfa, 157 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)
				%	Moist.	Nitrogen							
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			2,198				
02/12/2023	Ground Water: Well Avg	5.27	Acre Inches	15.30		mg/L			2,864	0	0	102,934	
02/12/2023	Waste Water: Main Lagoon	0.85	Acre Inches	439.00	88.30	1,020.0	mg/L	3,623,741	13,251	2,666	30,789	173,267	
03/15/2023	Ground Water: Well Avg	5.23	Acre Inches	15.30		mg/L			2,842	0	0	102,152	
03/15/2023	Waste Water: Main Lagoon	0.84	Acre Inches	439.00	88.30	1,020.0	mg/L	3,581,109	13,095	2,634	30,427	171,227	
04/12/2023	Ground Water: Well Avg	5.89	Acre Inches	15.30		mg/L			3,200	0	0	115,043	
05/10/2023	Ground Water: Well Avg	6.15	Acre Inches	15.30		mg/L			3,341	0	0	120,122	
06/07/2023	Ground Water: Well Avg	6.04	Acre Inches	15.30		mg/L			3,281	0	0	117,973	
07/05/2023	Ground Water: Well Avg	6.11	Acre Inches	15.30		mg/L			3,321	0	0	119,340	
08/04/2023	Ground Water: Well Avg	5.96	Acre Inches	15.30		mg/L			3,239	0	0	116,411	
09/08/2023	Ground Water: Well Avg	6.15	Acre Inches	15.30		mg/L			3,341	0	0	120,122	
10/23/2023	Ground Water: Well Avg	5.07	Acre Inches	15.30		mg/L			2,755	0	0	99,028	
10/23/2023	Waste Water: Main Lagoon	0.82	Acre Inches	683.00	46.30	1,180.0	mg/L	3,495,845	19,889	1,349	34,363	216,947	
11/20/2023	Harvest	9.80	Tons	10.40	4.01	0.38	2.17	%					110,563
Acre Inches Applied:		54.38		Totals:			10,700,695	76,616	6,649	95,578	1,574,567	110,563	
Season Nitrogen Ratio:		0.69		Lbs Per Acre:			488	42	609	10,029	704		

Still Waters Ranch, LLC 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>	
<i>Solid Manure</i>	0.00	0.00	0.00	0.00		tons
<i>Process Wastewater</i>	348,670.02	39,932.18	627,367.68	4,455,940.13	77,526,612.67	gallons
<i>Irrigation Water</i>	233,186.45					
<i>Fertilizer / Total Imports</i>	69,689.24					
<i>Atmospheric Deposition</i>	32,410.00					
<i>Total Nitrogen Applied</i>	683,955.71					
<i>Crop Nitrogen Removal</i>	719,435.51					
<i>Nitrogen Balance</i>	(35,479.80)					
<i>Nitrogen Ratio</i>	0.95					

- 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.

Still Waters Ranch, LLC 2023 Nutrient Applications (Attachment B)

FIELD NITROGEN RATIO Calculation:

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

ATMOSPHERIC 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

Still Waters Ranch, LLC 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)**
7,768	231,272.59	97,277.74	254,534.03	0.00

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

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

B. ESTIMATED TOTAL PROCESS WASTEWATER TRANSFERRED OFFSITE

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

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

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

Still Waters Ranch, LLC 2023
Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x042 x060 x017 xxxx	77	None
2	x042 x060 x017 xxxx	72	None
2B	x042 x060 x018 xxxx	80	None
7	x042 x070 x006 xxxx	82	None
8	x042 x070 x006 xxxx	73	None
9	x042 x070 x012 xxxx	81	None
10	x042 x070 x012 xxxx	61	None
11	x042 x070 x010 xxxx	78	None
12	x042 x070 x010 xxxx	79	None
13	x042 x070 x007 xxxx	82	None
14	x042 x070 x007 xxxx	75	None
15	x042 x070 x008 xxxx	150	Process Wastewater
16	x014 x040 x017 x000, x014 x040 x018 x000	9	Process Wastewater
17	x014 x040 x017 x000, x014 x040 x018 x000	9	None
20	x014 x040 x039 x000	79	None
21	x014 x040 x039 x000	77	None
22	x014 x040 x040 x000	79	None
23	x014 x040 x040 x000	77	None
24	x014 x040 x006 x000	20	None
25	x014 x040 x018 x000	154	Process Wastewater
30	x014 x040 x035 x000	63	Process Wastewater
33	x014 x040 x024 x000	152	Process Wastewater
18-19	x014 x040 x036 x000, x014 x040 x038 x000	155	None
26-27	x014 x040 x034 x000	154	Process Wastewater
28-29	x014 x040 x035 x000	154	Process Wastewater
31-32	x014 x040 x025 x000	157	Process Wastewater



INNOVATIVE AG SERVICES

Still Waters Ranch, LLC 2023

2,329

Production Area APN(s): x014 x040 x017 x000, x014 x040 x018 x000

Still Waters Ranch, LLC 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	439.00	88.30	1,020.00	8,640	387.00		5,740.00							
06/16/2023	456.00	48.70	842.00	8,470	416.00	0.00	5,620.00	7.74						
07/14/2023	572.00	54.80	903.00	11,200	542.00		7,420.00							
11/09/2023	683.00	46.30	1,180.00	11,200	678.00		7,450.00							
Averages:	537.50	59.52	986.25	9,878	505.75	0.00	6,557.50	7.74						

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
06/08/2023	2.98	1.49	3.20	23.40						%
11/09/2023	2.21	0.88	2.45	39.00						%
Averages:	2.60	1.18	2.82	31.20						

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
1	1	Tomatoes	08/01/2023	32.80	7.78	60.60	93.70	9.23
2	1	Tomatoes	08/01/2023	35.80	7.50	58.40	93.70	8.79



INNOVATIVE AG SERVICES

Still Waters Ranch, LLC 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 (%)
2B	1	Tomatoes	08/01/2023	35.60	7.44	61.80	94.30	9.13
7	1	Tomatoes	08/01/2023	37.40	8.22	63.40	94.40	9.67
8	1	Tomatoes	08/01/2023	34.80	7.92	62.80	94.00	9.23
9	1	Tomatoes	08/03/2023	37.80	7.14	56.80	93.80	8.60
10	1	Tomatoes	08/03/2023	33.60	8.16	58.80	93.80	9.03
11	1	Tomatoes	08/03/2023	62.00	8.10	60.00	94.30	9.59
12	1	Tomatoes	08/03/2023	66.40	8.32	59.20	94.80	9.91
13	1	Tomatoes	08/07/2023	55.20	8.00	51.00	94.50	8.38
14	1	Tomatoes	08/07/2023	50.00	6.22	44.00	94.30	7.48
15	1	Wheat	05/21/2023	13.12	2.92	10.10	61.30	6.18
15	2	Corn	09/12/2023	22.60	5.50	30.00	72.30	5.88
16	1	Wheat	05/21/2023	14.98	3.18	10.84	61.20	6.82
17	1	FALLOW						
20	1	Tomatoes	08/09/2023	59.80	8.06	54.60	94.40	9.08
21	1	Tomatoes	08/09/2023	53.00	7.90	60.60	95.20	9.25
22	1	Tomatoes	08/09/2023	46.00	6.70	57.60	93.90	8.96
23	1	Tomatoes	08/09/2023	42.80	6.90	54.40	93.70	8.18
24	1	FALLOW						



INNOVATIVE AG SERVICES

Still Waters Ranch, LLC 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 (%)
25	1	Wheat	05/21/2023	14.20	3.04	9.98	61.30	6.18
25	2	Corn	09/26/2023	25.40	5.88	26.00	70.60	7.39
30	1	Wheat	05/25/2023	24.80	4.96	30.00	61.50	6.38
30	2	Corn	10/30/2023	25.20	5.20	18.80	62.40	6.60
33	1	Alfalfa	11/20/2023	77.80	7.32	40.40	10.90	10.20
18-19	1	Tomatoes	08/09/2023	52.00	6.92	50.40	94.30	8.38
26-27	1	Wheat	05/25/2023	22.20	4.68	26.20	62.90	7.13
26-27	2	Corn	09/29/2023	26.20	5.82	25.60	69.80	7.40
28-29	1	Wheat	05/25/2023	15.36	3.70	12.46	62.40	7.38
28-29	2	Corn	10/23/2023	24.80	5.22	21.60	64.10	5.09
31-32	1	Alfalfa	11/20/2023	80.20	7.62	43.40	10.40	9.07

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
Dairy	DB1													Out of service

Still Waters Ranch, LLC 2023
Lab Results Summary (Attachment E)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP (umhos/cm)	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL	General Minerals
Dairy															
DB2								Out of service.							
DB3								Out of service.							
DB4	08/21/2023	6.70			429										
DB5	08/21/2023	13.60			674										
DB6	08/21/2023	6.70			427										
Averages:		9.00			510										
Domestic															
18	12/11/2023	18.90			1,810										
25	12/15/2023	11.80			1,050										
Averages:		15.35			1,430										

Still Waters Ranch, LLC 2023
Lab Results Summary (Attachment E)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP (umhos/cm)	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL	General Minerals
Irrigation															
1								Did not run.							
2B								Did not run.							
2E								Did not run.							
2W								Did not run.							
7								Did not run.							
9								Did not run.							
12								Out of service							
13								Did not run.							
14								Did not run.							
15								Out of service							
16	12/01/2023	39.70		1,080		920.00	39.70								
17	10/18/2023	4.50		405		350.00	4.50								
18N								Did not run.							
18S								Out of service							
21								Did not run.							
22								Did not run.							
23								Did not run.							
26								Did not run.							
26NE	12/01/2023	1.70		418		380.00	1.90								

Still Waters Ranch, LLC 2023

Lab Results Summary (Attachment E)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL	General Minerals
Irrigation															
30								Did not run.							
31								Did not run.							
31NE								Did not run.							
32								Did not run.							
33								Did not run.							
53								Out of service.							
56								Out of service.							
57								Out of service.							
Averages:															
Surface Water															
Alta (General)	06/28/2023	0.00		26		30.00	0.00								
Averages:															

* NH4N was non-detectable unless a value is shown

Still Waters Ranch, LLC 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	Tomatoes	77	04/23/2023	08/01/2023	63.5	4966.5	64.5
Field: 2	1	Tomatoes	72	04/23/2023	08/01/2023	62.5	4593.6	63.8
Field: 2B	1	Tomatoes	80	04/23/2023	08/01/2023	68.3	5320.0	66.5
Field: 7	1	Tomatoes	82	04/23/2023	08/01/2023	63.0	5321.8	64.9
Field: 8	1	Tomatoes	73	04/23/2023	08/01/2023	63.0	4759.6	65.2
Field: 9	1	Tomatoes	81	04/23/2023	08/03/2023	68.3	5443.2	67.2
Field: 10	1	Tomatoes	61	04/23/2023	08/03/2023	68.3	3940.6	64.6
Field: 11	1	Tomatoes	78	04/23/2023	08/03/2023	68.3	5179.2	66.4
Field: 12	1	Tomatoes	79	04/25/2023	08/03/2023	68.3	5312.8	67.2
Field: 13	1	Tomatoes	82	04/29/2023	08/07/2023	64.0	5305.4	64.7
Field: 14	1	Tomatoes	75	04/29/2023	08/07/2023	65.0	5025.0	67.0
Field: 15	1	Wheat	150	12/17/2022	05/21/2023	18.0	3435.0	22.9
	2	Corn	150	06/13/2023	09/12/2023	30.0	4860.0	32.4

Still Waters Ranch, LLC 2023
Planting and Harvest Information (Attachment F)

Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 16	1 Wheat	9	12/17/2022	05/21/2023	16.0	207.9	23.1
Field: 20	1 Tomatoes	79	05/01/2023	08/09/2023	64.0	5012.6	63.4
Field: 21	1 Tomatoes	77	05/01/2023	08/09/2023	63.0	4989.6	64.8
Field: 22	1 Tomatoes	79	05/01/2023	08/09/2023	79.7	5419.4	68.6
Field: 23	1 Tomatoes	77	05/01/2023	08/09/2023	73.8	5544.0	72.0
Field: 25	1 Wheat	152	12/21/2022	05/21/2023	19.9	3541.6	23.3
	2 Corn	152	06/27/2023	09/26/2023	33.0	4848.8	31.9
Field: 30	1 Wheat	63	12/21/2022	05/25/2023	20.1	1304.1	20.7
	2 Corn	63	07/31/2023	10/30/2023	29.4	1871.1	29.7
Field: 33	1 Alfalfa	152	11/01/2022	11/20/2023	12.1	1793.6	11.8
Field: 18-19	1 Tomatoes	155	05/01/2023	08/09/2023	64.0	9803.8	63.2
Field: 26-27	1 Wheat	148	12/21/2022	05/25/2023	22.5	3352.2	22.6
	2 Corn	148	06/30/2023	09/29/2023	28.1	4351.2	29.4

Still Waters Ranch, LLC 2023
Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field:	28-29							
	1	Wheat	148	12/21/2022	05/25/2023	21.5	3211.6	21.7
	2	Corn	148	07/24/2023	10/23/2023	29.6	4469.6	30.2
Field:	31-32							
	1	Alfalfa	157	11/01/2022	11/20/2023	10.2	1538.6	9.8

Still Waters Ranch, LLC 2023

Weather Data (Attachment G)

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

*Note: SWP = Standing Water Present

ATTACHMENT D

**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

Instructions:

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

Operator Information: Name of Operator: <u>David te Velde</u>			
Name of Dairy Facility: <u>St. Hil Water</u>			
Facility Address: <u>5001 4th Avenue Hanford, CA 93230</u>		Number and Street	City
		Garret te Velde (559) 707-3901	Zip Code
Contact Person Name and Phone Number: <u>Garret te Velde (559) 707-3901</u>			
Name	Phone Number		
Manure/Process Wastewater Hauler Information:			
Name of Hauling Company/Person: <u>Triple M</u>			
Address of Hauling Company /Person:		Number and Street	City
		Garret te Velde (559) 707-3901	Zip Code
Contact Person: <u>Garret te Velde (559) 707-3901</u>			
Name	Phone Number		
Destination Information:			
Composting Facility / Broker / <u>Farmer</u> / Other (identify) <u>64 + Excelso - Hanford</u> (please circle one)			
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above): <u>64 + Excelso - Hanford</u>			
Name	Number and Street	City	Zip Code
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:			
Number and Street	City	Zip Code	Assessor's Parcel Number
Dates Hauled: <u>9/14/24</u>			
Amount Hauled: Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:			
Manure: <u>1832</u> Tons or Cubic Yards (indicate which units used)			
Manure Solids Content (if amount reported in tons): <u>61.0% Corral Solids</u>			
Manure Density (if amount reported in cubic yards): <u></u>			

Attachment D

D-2

Reissued Waste Discharge Requirements General Order No. R5-2013-0122
Existing Milk Cow Dairies

Method used to determine amount of manure: 8 tons/truck

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

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

Certification:

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

Operator's Signature: Thufi ll Date: 6/15/24

Hauler's Signature: Danny Mauter Date: 6/15/24

ATTACHMENT D

**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

Instructions:

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

Operator Information: David te Velde			
Name of Operator: _____			
Name of Dairy Facility: <u>Still Water</u>			
Facility Address: 5001 4th Avenue Hanford, CA 93230		Number and Street	City
			Zip Code
Contact Person Name and Phone Number: Garret te Velde (559) 707-3901		Name	Phone Number
Manure/Process Wastewater Hauler Information:			
Name of Hauling Company/Person: <u>Triple M</u>			
Address of Hauling Company /Person:		Number and Street	City
			Zip Code
Contact Person:		Name	Phone Number
Destination Information:			
Composting Facility / Broker / <u>Farmer</u> / Other (identify) _____ (please circle one)			
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):			
<u>17th + Elder</u>	<u>Hanford</u>	Number and Street	City
Name		Zip Code	Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number: <u>0014-020-006</u> <u>014-020-012</u>			
Number and Street	City	Zip Code	Assessor's Parcel Number
Dates Hauled: <u>10/23/23 - 11/13/23</u>			
Amount Hauled:			
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:			
Manure: <u>1032</u>	Tons or Cubic Yards (indicate which units used)		
Manure Solids Content (If amount reported in tons): <u>61.0% Corral Solids</u>			
Manure Density (If amount reported in cubic yards): _____			

Attachment D

D-2

Reissued Waste Discharge Requirements General Order No. R5-2013-0122
Existing Milk Cow Dairies

Method used to determine amount of manure: 8 tons / truck

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

Certification:

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

Operator's Signature: Hauler Date: 6/15/24

Hauler's Signature: Dany Martin Date: 6/15/24

ATTACHMENT D

**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

Instructions:

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

Operator Information: David te Velde				
Name of Operator: _____				
Name of Dairy Facility: <u>Still Water</u>				
Facility Address: <u>5001 4th Avenue Hanford, CA 93230</u>		Number and Street	City	Zip Code
Contact Person Name and Phone Number: <u>Garret te Velde (559) 707-3901</u>				
		Name	Phone Number	
Manure/Process Wastewater Hauler Information:				
Name of Hauling Company/Person: <u>Triple M</u>				
Address of Hauling Company /Person: _____		Number and Street	City	Zip Code
Contact Person: _____				
		Name	Phone Number	
Destination Information:				
Composting Facility / Broker <input checked="" type="checkbox"/> Farmer <input type="checkbox"/> Other (identify) _____ (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above): <u>4th + Denver Kingsbury/Travis</u>				
Name	Number and Street	City	Zip Code	Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				
Number and Street	City	Zip Code	Assessor's Parcel Number	
Dates Hauled: <u>9/14/23</u>				
Amount Hauled:				
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:				
Manure: <u>2736</u> Tons or Cubic Yards (indicate which units used)				
Manure Solids Content (if amount reported in tons): <u>61.0% Corral Solids</u>				
Manure Density (if amount reported in cubic yards): _____				

Attachment D

D-2

Reissued Waste Discharge Requirements General Order No. R5-2013-0122
Existing Milk Cow Dairies

Method used to determine amount of manure: 8 tons/truck

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

Certification:

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

Operator's Signature: Thelma

Date: 6/15/24

Hauler's Signature: Danny Martin

Date: 6/15/24

ATTACHMENT D

**Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

Instructions:

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

Operator Information:

Name of Operator: David te Velde

Name of Dairy Facility: Still Water

Facility Address: 5001 4th Ave Hanford 93230
Number and Street City Zip Code

Contact Person Name and Phone Number: Garret te Velde (559) 707-3901
Name Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Triple M

Address of Hauling Company /Person: Number and Street City Zip Code

Contact Person: Name Phone Number

Destination Information:

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

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

Name	Number and Street	City	Zip Code	Phone Number
------	-------------------	------	----------	--------------

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

<u>7th + Elder</u>	<u>Hanford</u>	<u>93230</u>	<u>014-020-018</u>
Number and Street	City	Zip Code	Assessor's Parcel Number

Dates Hauled: 8/19/23 - 8/21/23

Amount Hauled:

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

<u>1168</u>	<u>Tons or Cubic Yards (indicate which units used)</u>
<u>76.6%</u>	<u>Corral Solids</u>
Manure Density (if amount reported in cubic yards): _____	

Attachment D

D-2

Reissued Waste Discharge Requirements General Order No. R5-2013-0122
Existing Milk Cow Dairies

Method used to determine amount of manure: 8 tons/truck

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

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

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

Certification:

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

Operator's Signature: Mark Sh Date: 6/15/24

Hauler's Signature: Danny Martin Date: 6/15/24



January 2, 2024

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

Lab No. : VI 2348587
Customer No. : 4018573
Reference : 42187

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
25	12/15/2023	12/15/2023	VI 2348587-001	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: 2024-01-03



January 2, 2024

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

Description : 25
 Project : 0053 Still Waters Ranch, LLC

Lab No. : VI 2348587-001

Customer No. : 4018573

Reference : 42187

Sampled On : December 15, 2023 at 11:00

Sampled By : Zeke

Received On : December 15, 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
Dairy Analysis													
Nitrate Nitrogen	11.8	0.4	mg/L	10	1		12/22/2023	08:00	lfs	SM 4500-NO3 F	12/22/2023	10:48	lfs
Conductivity	1050	1	umhos/cm	1600 ²	1		12/21/2023	09:19	krh	SM 4500-H+B	12/21/2023	11:09	krh

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.



January 2, 2024

Innovative Ag Services, LLC

Lab No. : VI 2348587

Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(SP 2320616-001)	Dup	umhos/cm		0.1%	5	
Nitrate Nitrogen	4500NO3F	12/22/2023:214459LFS (VI 2348586-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 0.9%	97.8% 83.6% 86.7% ≤30.4	ND 80-120 66-125 66-125	<0.4

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 42187

ID: # 0053

2348587

LABORATORY: *FSL*

SITE NAME: Still Waters Ranch

Billing: J4J

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

W1 EC, NO₃N (Dom)
W2 EC, NO₃N, TDS, TN (Irr)
W3 NH₄-N (Ammonium) *2018.1* ~~2018.1~~ ~~46~~
W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
W6 NO₃N, NO₂ (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
W8 Other: _____

Plant Tissue

- P1** TN, NO₃N, PO₄P, 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	LAS USE ONLY: FIELD TESTS		
					NH ₃ N*	pH	Temp
1 25	DOM	W1	12-15/11:00	Zdc			
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 & 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 st		IGI		12-15-23 / 2:05
2 nd	AJB	ELL	12/15/23 1535	
3 rd	AJB	FGI		12/15/23 1601
4 th			12/15/23 1601	

LABORATORY USE ONLY

Logged In By:

Total Samples:

Laboratory #:



December 18, 2023

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

Lab No. : VI 2348412
Customer No. : 4018573
Reference : 42152

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
18	12/11/2023	12/11/2023	VI 2348412-001	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: 2023-12-18



December 18, 2023

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

Description : 18
 Project : 0053 Still Waters Ranch LLC

Lab No. : VI 2348412-001
 Customer No.: 4018573
 Reference : 42152
 Sampled On : December 11, 2023 at 10:20
 Sampled By : Zeke
 Received On : December 11, 2023 at 15:35
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Nitrate Nitrogen	18.9	0.4	mg/L	10	1		12/12/2023	13:00	lfs	SM 4500-NO3 F	12/12/2023	19:31	lfs	
Conductivity	1810	1	umhos/cm	1600 ²	1		12/13/2023	08:05	krh	SM 4500-H+B	12/13/2023	10:13	krh	

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.



December 18, 2023

Innovative Ag Services, LLC
 Lab No. : VI 2348412
 Customer No. : 4018573
Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348337-001)	Dup	umhos/cm		0.3%	5	
Nitrate Nitrogen	4500NO3F	12/12/2023:214004LFS (VI 2348370-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 0.6%	98.1% 88.1% 90.1% ≤30.4	<0.4 80-120 66-125 66-125	

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 42152

ID: # 0053SITE NAME: STILL WATERSBilling: ZAS**ANALYSIS TO BE COMPLETED:****Irrigation/Ground Water (ELAP Standards)****W1** EC, NO₃N (Dom)**W2** EC, NO₃N, TDS, TN (Irr)**W3** NH₄-N (Ammonium)**W4** EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)**W5** EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)**W6** NO₃N, NO₂ (Dom ILRP, Annually)**W7** Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)**W8** Other: _____**Plant Tissue****P1** TN, NO₃N, PO₄P, 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: _____2348412LABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

Process Waste Water (lagoon)**L1** EC, NH₄N, TKN, TP, TK, TDS (Quarterly)**L2** EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)**L3** L1 + Ca, Mg, Na, HCO₃, CO₃, SO₄S, 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, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S**S2** S1 + CEC, CaCO₃, OM, C:N, TN**S3** NO₃N, NH₄N**S4** Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N*	pH	Temp
1	0053/13	Dom	W1 12-11-23	ZAS			
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 & 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: R01 8.9 °C 10/11/2023**CHAIN OF CUSTODY RECORDING**

Signature	Company	Received Date & Time	Relinquished Date & Time
<u>S</u>	IAS		12-11-23 1:10
<u>ASB</u>	FGL	12-11-23 1535	
<u>ASB</u>	FGL		12-11-23 1535:54
<u>SRO</u>	FGL	12-11-23 1534	
<u>SRO</u>	FGL	12-11-23 1730	
<u>SRO</u>	FGL	12-11-23 1730	
Laboratory Use Only			
Logged In By: _____	Total Samples: _____	Laboratory #: _____	

GLS 2023 12/11/23 1013



November 6, 2023

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

Lab No. : VI 2347070
Customer No. : 4018573
Reference : 41618

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
17	10/18/2023	10/18/2023	VI 2347070-001	AGW

Sampling and Receipt Information:

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

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

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-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: 2023-11-07

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



November 6, 2023

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

Description : 17
 Project : 0053 Still Waters Ranch LLC

Lab No. : VI 2347070-001
 Customer No. : 4018573
 Reference : 41618
 Sampled On : October 18, 2023 at 14:40
 Sampled By : Zeke
 Received On : October 18, 2023 at 16:15
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	11/01/2023	13:01	sta	EPA 351.2	11/03/2023	18:02	lcr
Nitrate Nitrogen	4.5	0.4	mg/L		1		10/19/2023	12:45	lfs	SM 4500-NO3 F	10/19/2023	15:12	lfs
Nitrogen, Total as Nitrogen	4.5	0.5	mg/L		1	I	11/01/2023	13:01	sta	Calc.	11/03/2023	18:02	lcr
Nitrate + Nitrite as N	4.5	0.4	mg/L		1		10/19/2023	12:45	lfs	SM 4500-NO3 F	10/19/2023	15:12	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	11/01/2023	13:01	sta	EPA 351.2	11/03/2023	18:02	lcr
Conductivity	405	1	umhos/cm		1		11/03/2023	07:56	krh	SM 4500-H+B	11/03/2023	10:49	krh
Solids, Total Dissolved (TDS)	350	20	mg/L		1		10/20/2023	11:30	ctl	SM 2540 C	10/23/2023	10:50	ctl

DQF Flags Definition:

- U Constituent results were non-detect.
 I The MS/MSD did not meet QC criteria.

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



November 6, 2023

Innovative Ag Services, LLCLab No. : VI 2347070
Customer No. : 4018573**Quality Control - Wet Chem**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2347281-001)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	10/20/2023:211876CTL (CH 2379072-003) (CH 2379072-003)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 103% 3.77% 0.8%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	11/01/2023:212413STA (VI 2347084-006) (VI 2347084-007)	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	ND 92.7% 89.4% 90.9% 1.6% 81.1% 79.4% 2.0%	<0.5 73-124 90-110 90-110 ≤20 90-110 90-110 90-110	435
Nitrate + Nitrite as N	4500NO3F	10/19/2023:211831LFS (STK2354580-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 98.9% 95.4% 96.8% 0.8%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	10/19/2023:211831LFS (STK2354580-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 98.9% 95.4% 96.8% 0.8%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



Laboratory Analysis Work Order

Nº 41618

ID: # 0083

2347070

SITE NAME: STILL WATER RANCHBilling: IAS

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom) *Q1 2023*
W2 EC, NO₃N, TDS, TN (Irr) *Q1 2023*
W3 NH₄-N (Ammonium) *Q1 2023*
W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
W6 NO₃N, NO₂ (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, 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 ₃ N*	pH	Temp
1	17	IRL	W2	10-18/23:40	Zulu		
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 & 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:

GILS 1212
 CDA 10/19/23

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st		IAS		10-18-23 / 2:15
2 nd		FGL	10-18-23 16:08	
3 rd		FGL		10-18-23 16:15
4 th			10/18/23 16:15	

LABORATORY USE ONLY

Logged In By:

Total Samples:

10/23, 14 Laboratory #: _____



September 14, 2023

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

Lab No. : VI 2345528
Customer No. : 4018573
Reference : 41201

Laboratory Report

Introduction: This report package contains a total of 5 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 | (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
DB4	08/21/2023	08/21/2023	VI 2345528-001	DW
DB5	08/21/2023	08/21/2023	VI 2345528-002	DW
DB6	08/21/2023	08/21/2023	VI 2345528-003	DW

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

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: 2023-09-14



September 14, 2023

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

Description : DB4
 Project : 0053 Still Waters Ranch, LLC

Lab No. : VI 2345528-001
 Customer No.: 4018573
 Reference : 41201
 Sampled On : August 21, 2023 at 13:45
 Sampled By : Alex
 Received On : August 21, 2023 at 16:11
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Nitrate Nitrogen	6.7	0.4	mg/L	10	1		08/22/2023	13:15	lfs	SM 4500-NO3 F	08/22/2023	14:51	lfs	
Conductivity	429	1	umhos/cm	1600 ²	1		08/31/2023	11:57	krh	SM 4500-H+B	08/31/2023	16:41	krh	

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.



September 14, 2023

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

Description : DB5
 Project : 0053 Still Waters Ranch, LLC

Lab No. : VI 2345528-002
 Customer No.: 4018573
 Reference : 41201
 Sampled On : August 21, 2023 at 14:15
 Sampled By : Alex
 Received On : August 21, 2023 at 16:11
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Nitrate Nitrogen	13.6	0.4	mg/L	10	1		08/22/2023	13:15	lfs	SM 4500-NO3 F	08/22/2023	14:52	lfs	
Conductivity	674	1	umhos/cm	1600 ²	1		09/08/2023	11:31	krh	SM 4500-H+B	09/08/2023	15:50	krh	

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.



September 14, 2023

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

Description : DB6
 Project : 0053 Still Waters Ranch, LLC

Lab No. : VI 2345528-003
 Customer No. : 4018573
 Reference : 41201
 Sampled On : August 21, 2023 at 14:05
 Sampled By : Alex
 Received On : August 21, 2023 at 16:11
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Nitrate Nitrogen	6.7	0.4	mg/L	10	1		08/22/2023	13:15	lfs	SM 4500-NO3 F	08/22/2023	14:55	lfs	
Conductivity	427	1	umhos/cm	1600 ²	1		09/05/2023	09:15	krh	SM 4500-H+B	09/05/2023	12:17	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.



September 14, 2023

Innovative Ag Services, LLC
 Lab No. : VI 2345528
 Customer No. : 4018573
Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(STK2351584-002)	Dup	umhos/cm		0.3%	5	
	2320B	(VI 2345518-025)	Dup	umhos/cm		0.5%	5	
	2320B	(VI 2345799-001)	Dup	umhos/cm		0.3%	5	
Nitrate Nitrogen	4500NO3F	08/22/2023:209438LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.9%	80-120	
			MS	mg/L	5.609	97.4%	66-125	
		(CH 2376919-001)	MSD	mg/L	5.609	98.6%	66-125	
			MSRPD	mg/L		0.9%	≤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.

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



Laboratory Analysis Work Order

Nº 41201

ID: # 00532345528SITE NAME: Still Waters RanchBilling: IASLABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

- W1** EC, NO₃N (Dom)
- W2** EC, NO₃N, TDS, TN (Irr)
- W3** NH₄-N (Ammonium)
- W4** EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
- W5** EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
- W6** NO₃N, NO₂ (Dam ILRP, Annually)
- W7** Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
- W8** Other: _____

Plant Tissue

- P1** TN, NO₃N, PO₄P, 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 ₃ N *	pH	Temp
1	DB4	Dom	W1	8/21 1:45	Alex	—	
2	DB5	—	—	8/21 2:15	—	—	
3	DB6	—	—	8/21 2:05	—	—	
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 & 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:

5.5% T4097

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>Albert Pau</u>	IAS		8/21/23 3:00
2 nd	<u>SLR</u>	FGL	8-21-23 16:08	
3 rd	<u>SLR</u>	FGL		8-21-23 16:11
4 th	<u>Wm</u>	FGL	8/21/23 16:11 (all)	

LABORATORY USE ONLY
Logged In By: 675 May 02/23 1730Total Samples: 1Laboratory #: 8/21/23 16:18



December 21, 2023

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

Lab No: : VI 2348053
Customer No. : 4018573
Reference : 42118

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (2 pages) | : 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
16	12/01/2023	12/01/2023	VI 2348053-001	AGW
26NE	12/01/2023	12/01/2023	VI 2348053-002	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 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: JRD

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-12-22

Section: Case Narrative

Page 1 of 4

Page 1 of 4

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



December 21, 2023

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

Description : 16
 Project : 0053 Still Water Ranch

Lab No. : VI 2348053-001

Customer No. : 4018573

Reference : 42118

Sampled On : December 1, 2023 at 10:45

Sampled By : Zeke

Received On : December 1, 2023 at 15:50

Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	14:46	lcr	
Nitrate Nitrogen	39.7	0.8*	mg/L		2		12/07/2023	09:00	lfs	SM 4500-NO3 F	12/07/2023	18:21	lfs	
Nitrogen, Total as Nitrogen	39.7	0.8	mg/L		1		12/12/2023	08:00	sta	Calc.	12/13/2023	14:46	lcr	
Nitrate + Nitrite as N	39.7	0.8*	mg/L		2		12/07/2023	09:00	lfs	SM 4500-NO3 F	12/07/2023	18:21	lfs	
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	14:46	lcr	
Conductivity	1080	1	umhos/cm		1		12/07/2023	07:47	krh	SM 4500-H+B	12/07/2023	11:25	krh	
Solids, Total Dissolved (TDS)	920	20	mg/L		1		12/04/2023	14:45	ctl	SM 2540 C	12/05/2023	11:00	ctl	

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution



December 21, 2023

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

Description : 26NE
 Project : 0053 Still Water Ranch

Lab No. : VI 2348053-002
 Customer No.: 4018573
 Reference : 42118
 Sampled On : December 1, 2023 at 11:10
 Sampled By : Zeke
 Received On : December 1, 2023 at 15:50
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who	
Dairy Analysis														
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	15:51	lcr	
Nitrate Nitrogen	1.7	0.4	mg/L		1		12/07/2023	09:00	lfs	SM 4500-NO3 F	12/07/2023	12:01	lfs	
Nitrogen, Total as Nitrogen	1.9	0.5	mg/L		1		12/12/2023	08:00	sta	Calc.	12/13/2023	15:51	lcr	
Nitrate + Nitrite as N	1.9	0.4	mg/L		1		12/07/2023	09:00	lfs	SM 4500-NO3 F	12/07/2023	12:01	lfs	
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	15:51	lcr	
Conductivity	418	1	umhos/cm		1		12/07/2023	07:47	krh	SM 4500-H+B	12/07/2023	11:28	krh	
Solids, Total Dissolved (TDS)	380	20	mg/L		1		12/04/2023	14:45	ctl	SM 2540 C	12/05/2023	11:00	ctl	

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution



December 21, 2023

Innovative Ag Services, LLC
 Lab No. : VI 2348053
 Customer No. : 4018573
Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348142-001)	Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2540CE	12/04/2023:213647CTL (SP 2319835-002) (SP 2319835-002)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 101% 1.66% 1.62%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	12/12/2023:213992STA (VI 2348057-001) (VI 2348057-002) (SP 2319783-001) (VI 2348053-002)	Blank LCS MS MSD MSRPD MS MSD MSRPD Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L 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 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 94.7% 87.5% 90.6% 3.5% 91.1% 87.2% 4.5% ND 95.8% 91.8% 90.7% 1.2% 84.4% 84.3% 0.1%	<0.5 73-124 <1/4 90-110 ≤20 90-110 <1/4 ≤20 73-124 90-110 90-110 ≤20 <1/4 ≤1/4 ≤20	
Nitrate + Nitrite as N	4500NO3F	12/07/2023:213812LFS (CH 2390272-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.6%	ND 99.5% 101% 102% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	12/07/2023:213812LFS (CH 2390272-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.6%	ND 99.5% 101% 102% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

- <1/4 : High Sample Background - Spike concentration was less than one forth of the sample concentration.
- 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 42118

ID: # 0053

10.7° R01

ID#TH407

SITE NAME: STILL WATER RANCHBilling: Irr**ANALYSIS TO BE COMPLETED:****Irrigation/Ground Water (ELAP Standards)**W1 EC, NO₃N (Dom)W2 EC, NO₃N, TDS, TN (Irr)W3 NH₄-N (Ammonium)W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)W6 NO₃N, NO₂ (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)

W8 Other: _____

Plant TissueP1 TN, NO₃N, PO₄P, 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: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	IR	W2	12-1 10:45	Zac			
2	IRN	W2	12-1 11:10	Zac			
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 & 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: 12/2/231515**CHAIN OF CUSTODY RECORDING**

Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	24hr		12-1-23 / 2:15P
2 nd	F6L	12-1-23 15:35	
3 rd	F6L		12-1-23 15:58
4 th	F6L	12-1-2023 15:58	

LABORATORY USE ONLY
Logged In By: OTSTotal Samples: 1 Laboratory #: 1730