INNOVATIVE
AG SERVICES

SOUTH CREEK DAIRY

2023 Annual Report

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

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

(See attached delivery confirmation)

Annual Report

South Creek Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	South Creek Dairy
Facility Address	11450 Avenue 64, Earlimart CA 93219

Owner/Operator as of 12/31/2023

Operator Name	Christopher Jongsma
Operator Phone	(559) 786-9674
Owner Name	Christopher Jongsma
Owner Phone	(559) 786-9674

1. Beginning and end dates of the annual reporting period: crops harvested January 1, 2023 through December 31, 2023.

2. Maximum and average number and type of animals (see Attachment A).

3. Estimated amount of total manure and process wastewater generated by the facility (see Attachment A).

4. Estimated amount of total manure and process wastewater applied to each land application area (see Attachment B).

5. Quantified ratio of total nitrogen applied to land application areas and total nitrogen removed by crop harvest (see Attachment B).

6. Estimated amount of total manure and process wastewater transferred to other persons by the facility (see Attachment C).

7. Total number of acres and the Assessor Parcel Numbers for all land application areas that were not used for application of manure or process wastewater (see Attachment D).

8. Total number of acres and the Assessor Parcel Numbers for all land application areas that were used for land application of manure and process wastewater (see Attachment D).

9. Summary of manure and process wastewater discharges from the production area
Provide a summary of all manure and wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan, that occurred during the annual reporting period, including the date, time, location, approximate volume, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

_X_ No discharges occurred during the reporting period.

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

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

X No discharges occurred during the reporting period.

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

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

X No discharges occurred during the reporting period.

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

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

__ No.

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

13. Manure/Process Wastewater Tracking Manifests
Did you sell, give away, or otherwise remove manure or process wastewater from your property?

__ No.

X Yes, see attached manifests.

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

X Not applicable; no written agreements.

__ No changes in agreement(s).

__ Yes, a new or revised agreement is attached.

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

X Not Applicable.

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

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

17. Record-Keeping Results

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

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

18. Groundwater Monitoring Section

X Groundwater monitoring results are attached.

___ Monitoring Well results are attached, if applicable.

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

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

19. Storm Water Reporting Section

X No significant discharges of storm water occurred from the land application areas.

___ Yes, significant discharge(s) of storm water occurred from land application areas. The following information shall be submitted for those discharges.

___ It was not possible to collect any of the required samples or perform visual observations due to adverse climatic conditions.

20. Mortality Management Practices

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

South Creek Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

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

DocuSigned by:
Christopher Jongsma
089CCA89D7EF43A...
Signature of Operator of Facility

Christopher Jongsma
Print Name

6/26/2024
Title and Date

DocuSigned by:
Christopher Jongsma
089CCA89D7EF43A...
Signature of Owner of Facility

Christopher Jongsma
Print Name

6/26/2024
Title and Date

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South Creek Dairy 2023

Estimated Manure and Nutrients Generated (Attachment A)

Animal Type	Maximum No. of Head	Average No. of Head*	Housing Type	Weight	Total Manure Produced (tons/year)	NITROGEN Net (LB) Available for Land Application	PHOSPHORUS Net (LB) Available for Land Application	POTASSIUM Net (LB) Available for Land Application	SALTS Net (LB) Available for Land Application
Hol Milk Cows	2,510	2,447	Milk Freestall -	1,400	62,102.14	884,223.45	151,836.35	205,425.65	1,613,037.93
Hol Dry Cows	320	312	Flushed	1,450	4,552.74	56,940.00	7,971.60	37,580.40	80,353.73
Hol Heifers(15-24)	1,246	1,214	Flushed	1,000	12,672.37	168,381.80	26,586.60	79,759.80	312,658.42
Hol Heifers (7-14)	916	893	Flushed	750	8,588.23	84,745.70	14,341.58	48,891.75	107,806.31
Hol Calves (4-6)	666	649	Flushed	300	2,250.41	33,163.90	9,475.40	18,950.80	15,539.66
	5,658	**5,515**			**90,165.88**	**1,227,454.85**	**210,211.53**	**390,608.40**	**2,129,396.04**

* 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)**
64,042,602	571.25	95.62	734.00	3,200.00	304,747.52	51,013.53	391,570.56	1,707,119.6

* 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).

South Creek Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Wheat, 263 Acres Planted on 10/24/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			3,682				
01/25/2023	Surface Water: Pixley	6.37	Acre Inches		0.00			mg/L			0	0	0	7,580	
03/19/2023	Surface Water: Pixley	6.23	Acre Inches		0.00			mg/L			0	0	0	7,411	
03/19/2023	Waste Water: Main Lagoon	0.76	Acre Inches		431.00	101.00	651.00	mg/L		5,427,601	19,486	4,566	29,432	134,732	
05/12/2023	Harvest	19.00	Tons	67.54	2.06	0.29	2.08	%							66,828
	Acre Inches Applied:	**13.36**						**Totals:**		**5,427,601**	**23,168**	**4,566**	**29,432**	**149,723**	**66,828**
Season Nitrogen Ratio:	1.35							**Lbs Per Acre:**			**88**	**17**	**112**	**569**	**254**

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South Creek Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Milo, 263 Acres Planted on 07/02/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/22/2023	Surface Water: Pixley	6.34	Acre Inches		0.00			mg/L			0	0	0	7,543	
06/22/2023	Waste Water: Main Lagoon	0.44	Acre Inches		807.00	130.00	674.00	mg/L		3,142,296	21,124	3,403	17,642	94,230	
07/18/2023	Surface Water: Pixley	6.94	Acre Inches		0.00			mg/L			0	0	0	8,258	
08/11/2023	Surface Water: Pixley	6.77	Acre Inches		0.00			mg/L			0	0	0	8,056	
08/11/2023	Waste Water: Main Lagoon	0.41	Acre Inches		546.00	68.50	601.00	mg/L		2,928,048	13,318	1,670	14,660	68,293	
09/05/2023	Surface Water: Pixley	5.86	Acre Inches		0.00			mg/L			0	0	0	6,972	
09/05/2023	Waste Water: Main Lagoon	0.34	Acre Inches		546.00	68.50	601.00	mg/L		2,428,138	11,043	1,386	12,156	56,634	
10/03/2023	Surface Water: Pixley	7.01	Acre Inches		0.00			mg/L			0	0	0	8,340	
11/02/2023	Ground Water: Irr Well #1	5.75	Acre Inches		13.00			mg/L			4,447	0	0	322,225	
11/02/2023	Waste Water: Main Lagoon	0.32	Acre Inches		501.00	83.00	1,010.0	mg/L		2,285,306	9,536	1,581	19,228	65,106	
11/16/2023	Harvest	26.00	Tons	75.64	1.30	0.24	2.46	%							43,308
	Acre Inches Applied:	**40.18**						**Totals:**		**10,783,787**	**59,470**	**8,040**	**63,685**	**645,657**	**43,308**
Season Nitrogen Ratio:	1.37							**Lbs Per Acre:**			**226**	**31**	**242**	**2,455**	**165**

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Nutrient Applications (Attachment B)

Field Name: 2

Wheat, 124 Acres Planted on 10/24/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,736				
01/14/2023	Surface Water: Pixley	5.50	Acre Inches		0.00			mg/L			0	0	0	3,085	
03/13/2023	Surface Water: Pixley	5.85	Acre Inches		0.00			mg/L			0	0	0	3,281	
03/13/2023	Waste Water: Main Lagoon	0.52	Acre Inches		431.00	101.00	651.00	mg/L		1,750,909	6,286	1,473	9,495	43,463	
05/12/2023	Harvest	19.40	Tons	68.57	2.11	0.30	2.20	%							31,906
	Acre Inches Applied:	**11.87**						**Totals:**		**1,750,909**	**8,022**	**1,473**	**9,495**	**49,829**	**31,906**
Season Nitrogen Ratio:	1.38							**Lbs Per Acre:**			**65**	**12**	**77**	**402**	**257**

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South Creek Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 2

Milo, 124 Acres Planted on 07/07/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/31/2023	Surface Water: Pixley	6.34	Acre Inches		0.00			mg/L			0	0	0	3,556	
05/31/2023	Waste Water: Main Lagoon	0.52	Acre Inches		807.00	130.00	674.00	mg/L		1,750,909	11,770	1,896	9,831	52,507	
06/25/2023	Surface Water: Pixley	6.94	Acre Inches		0.00			mg/L			0	0	0	3,894	
07/21/2023	Surface Water: Pixley	6.77	Acre Inches		0.00			mg/L			0	0	0	3,798	
07/21/2023	Waste Water: Main Lagoon	0.41	Acre Inches		546.00	68.50	601.00	mg/L		1,380,525	6,279	787	6,912	32,199	
08/18/2023	Surface Water: Pixley	5.92	Acre Inches		0.00			mg/L			0	0	0	3,321	
08/18/2023	Waste Water: Main Lagoon	0.42	Acre Inches		546.00	68.50	601.00	mg/L		1,414,196	6,432	807	7,080	32,985	
09/16/2023	Surface Water: Pixley	7.11	Acre Inches		0.00			mg/L			0	0	0	3,988	
10/16/2023	Ground Water: Irr Well #1	5.53	Acre Inches		13.00			mg/L			2,016	0	0	146,110	
10/16/2023	Waste Water: Main Lagoon	0.25	Acre Inches		546.00	68.50	601.00	mg/L		841,783	3,829	480	4,215	19,634	
11/15/2023	Harvest	27.00	Tons	76.32	1.47	0.23	2.48	%							23,308
	Acre Inches Applied:	**40.21**						**Totals:**		**5,387,413**	**30,327**	**3,970**	**28,038**	**301,992**	**23,308**
Season Nitrogen Ratio:	1.30							**Lbs Per Acre:**			**245**	**32**	**226**	**2,435**	**188**

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South Creek Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 185 Acres Planted on 10/25/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			2,590				
01/16/2023	Surface Water: Pixley	5.70	Acre Inches		0.00			mg/L			0	0	0	4,771	
03/20/2023	Surface Water: Pixley	5.85	Acre Inches		0.00			mg/L			0	0	0	4,895	
03/20/2023	Waste Water: Main Lagoon	0.57	Acre Inches		431.00	101.00	651.00	mg/L		2,863,421	10,280	2,409	15,527	71,081	
05/12/2023	Harvest	18.50	Tons	72.28	2.20	0.42	2.68	%							41,743
	Acre Inches Applied:	**12.12**						**Totals:**		**2,863,421**	**12,870**	**2,409**	**15,527**	**80,747**	**41,743**
Season Nitrogen Ratio:	1.38							**Lbs Per Acre:**			**70**	**13**	**84**	**436**	**226**

Field Name: 3

Milo, 185 Acres Planted on 07/02/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/19/2023	Surface Water: Pixley	6.84	Acre Inches		0.00			mg/L			0	0	0	5,724	
06/19/2023	Waste Water: Main Lagoon	0.76	Acre Inches		807.00	130.00	674.00	mg/L		3,817,895	25,665	4,135	21,436	114,491	
07/14/2023	Surface Water: Pixley	6.99	Acre Inches		0.00			mg/L			0	0	0	5,850	
07/14/2023	Waste Water: Main Lagoon	0.83	Acre Inches		546.00	68.50	601.00	mg/L		4,169,543	18,964	2,379	20,874	97,251	
08/08/2023	Surface Water: Pixley	6.02	Acre Inches		0.00			mg/L			0	0	0	5,038	
08/08/2023	Waste Water: Main Lagoon	0.87	Acre Inches		546.00	68.50	601.00	mg/L		4,370,485	19,878	2,494	21,880	101,937	
09/02/2023	Surface Water: Pixley	5.97	Acre Inches		0.00			mg/L			0	0	0	4,997	
09/02/2023	Waste Water: Main Lagoon	0.43	Acre Inches		546.00	68.50	601.00	mg/L		2,160,125	9,825	1,232	10,815	50,383	
09/30/2023	Harvest	27.50	Tons	68.19	1.74	0.32	2.79	%							56,318
	Acre Inches Applied:	**28.71**						**Totals:**		**14,518,046**	**74,333**	**10,240**	**75,005**	**385,670**	**56,318**
Season Nitrogen Ratio:	1.32							**Lbs Per Acre:**			**402**	**55**	**405**	**2,085**	**304**

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South Creek Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Wheat, 77 Acres Planted on 10/25/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,078				
01/29/2023	Surface Water: Pixley	6.50	Acre Inches		0.00			mg/L			0	0	0	2,265	
03/22/2023	Surface Water: Pixley	5.95	Acre Inches		0.00			mg/L			0	0	0	2,073	
03/22/2023	Waste Water: Main Lagoon	0.53	Acre Inches		431.00	101.00	651.00	mg/L		1,108,167	3,979	932	6,009	27,508	
05/12/2023	Harvest	19.00	Tons	72.04	2.17	0.41	2.66	%							17,753
	Acre Inches Applied:	**12.98**						**Totals:**		**1,108,167**	**5,057**	**932**	**6,009**	**31,846**	**17,753**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**66**	**12**	**78**	**414**	**231**

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South Creek Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Milo, 77 Acres Planted on 07/05/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/24/2023	Surface Water: Pixley	6.22	Acre Inches		0.00			mg/L			0	0	0	2,167	
06/24/2023	Waste Water: Main Lagoon	0.56	Acre Inches		807.00	130.00	674.00	mg/L		1,170,893	7,871	1,268	6,574	35,113	
07/19/2023	Surface Water: Pixley	7.30	Acre Inches		0.00			mg/L			0	0	0	2,543	
08/13/2023	Surface Water: Pixley	6.34	Acre Inches		0.00			mg/L			0	0	0	2,208	
08/13/2023	Waste Water: Main Lagoon	0.61	Acre Inches		546.00	68.50	601.00	mg/L		1,275,437	5,801	728	6,386	29,748	
09/07/2023	Surface Water: Pixley	5.96	Acre Inches		0.00			mg/L			0	0	0	2,076	
09/07/2023	Waste Water: Main Lagoon	0.41	Acre Inches		546.00	68.50	601.00	mg/L		857,261	3,899	489	4,292	19,995	
10/05/2023	Surface Water: Pixley	6.54	Acre Inches		0.00			mg/L			0	0	0	2,278	
11/04/2023	Ground Water: Irr Well #1	5.64	Acre Inches		13.00			mg/L			1,277	0	0	92,535	
11/04/2023	Waste Water: Main Lagoon	0.48	Acre Inches		501.00	83.00	1,010.0	mg/L		1,003,623	4,189	694	8,444	28,592	
11/15/2023	Harvest	26.50	Tons	74.75	1.75	0.33	2.52	%							18,033
	Acre Inches Applied:	**40.06**						**Totals:**		**4,307,215**	**23,037**	**3,179**	**25,696**	**217,254**	**18,033**
Season Nitrogen Ratio:	1.28							**Lbs Per Acre:**			**299**	**41**	**334**	**2,821**	**234**

INNOVATIVE AG SERVICES

South Creek Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 5

Wheat, 76 Acres Planted on 10/25/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,064				
02/01/2023	Surface Water: Pixley	6.20	Acre Inches		0.00			mg/L			0	0	0	2,132	
03/26/2023	Surface Water: Pixley	5.35	Acre Inches		0.00			mg/L			0	0	0	1,839	
03/26/2023	Waste Water: Main Lagoon	0.72	Acre Inches		431.00	101.00	651.00	mg/L		1,485,883	5,334	1,250	8,058	36,884	
05/12/2023	Harvest	19.00	Tons	71.30	2.11	0.40	2.55	%							17,489
	Acre Inches Applied:	**12.27**						**Totals:**		**1,485,883**	**6,398**	**1,250**	**8,058**	**40,855**	**17,489**
Season Nitrogen Ratio:	1.40							**Lbs Per Acre:**			**84**	**16**	**106**	**538**	**230**

South Creek Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 5

Milo, 76 Acres Planted on 07/04/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/21/2023	Surface Water: Pixley	6.43	Acre Inches		0.00			mg/L			0	0	0	2,211	
06/21/2023	Waste Water: Main Lagoon	0.53	Acre Inches		807.00	130.00	674.00	mg/L		1,093,775	7,353	1,184	6,141	32,800	
07/16/2023	Surface Water: Pixley	6.93	Acre Inches		0.00			mg/L			0	0	0	2,383	
08/10/2023	Surface Water: Pixley	6.53	Acre Inches		0.00			mg/L			0	0	0	2,245	
08/10/2023	Waste Water: Main Lagoon	0.58	Acre Inches		546.00	68.50	601.00	mg/L		1,196,962	5,444	683	5,993	27,918	
09/04/2023	Surface Water: Pixley	5.93	Acre Inches		0.00			mg/L			0	0	0	2,039	
09/04/2023	Waste Water: Main Lagoon	0.51	Acre Inches		546.00	68.50	601.00	mg/L		1,052,501	4,787	600	5,269	24,549	
10/02/2023	Surface Water: Pixley	6.94	Acre Inches		0.00			mg/L			0	0	0	2,386	
11/01/2023	Ground Water: Irr Well #1	5.63	Acre Inches		13.00			mg/L			1,259	0	0	91,171	
11/01/2023	Waste Water: Main Lagoon	0.56	Acre Inches		501.00	83.00	1,010.0	mg/L		1,155,687	4,823	799	9,723	32,924	
11/16/2023	Harvest	27.50	Tons	75.31	1.83	0.35	2.51	%							18,886
	Acre Inches Applied:	**40.57**						**Totals:**		**4,498,924**	**23,666**	**3,266**	**27,126**	**220,626**	**18,886**
Season Nitrogen Ratio:	1.25							**Lbs Per Acre:**			**311**	**43**	**357**	**2,903**	**248**

South Creek Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 6
Wheat, 155 Acres Planted on 10/25/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			2,170				
01/24/2023	Surface Water: Pixley	5.70	Acre Inches		0.00			mg/L			0	0	0	3,997	
03/18/2023	Surface Water: Pixley	5.65	Acre Inches		0.00			mg/L			0	0	0	3,962	
03/18/2023	Waste Water: Main Lagoon	0.58	Acre Inches		431.00	101.00	651.00	mg/L		2,441,172	8,764	2,054	13,239	60,599	
05/12/2023	Harvest	18.20	Tons	67.35	2.06	0.37	2.07	%							37,947
	Acre Inches Applied:	**11.93**						**Totals:**		**2,441,172**	**10,934**	**2,054**	**13,239**	**68,558**	**37,947**
Season Nitrogen Ratio:	1.40							**Lbs Per Acre:**			**71**	**13**	**85**	**442**	**245**

Field Name: 6
Milo, 155 Acres Planted on 06/25/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/07/2023	Surface Water: Pixley	6.57	Acre Inches		0.00			mg/L			0	0	0	4,607	
06/07/2023	Waste Water: Main Lagoon	0.52	Acre Inches		807.00	130.00	674.00	mg/L		2,188,637	14,713	2,370	12,288	65,633	
07/12/2023	Surface Water: Pixley	6.43	Acre Inches		0.00			mg/L			0	0	0	4,509	
07/12/2023	Waste Water: Main Lagoon	0.61	Acre Inches		546.00	68.50	601.00	mg/L		2,567,439	11,678	1,465	12,854	59,883	
08/06/2023	Surface Water: Pixley	6.02	Acre Inches		0.00			mg/L			0	0	0	4,221	
08/06/2023	Waste Water: Main Lagoon	0.49	Acre Inches		546.00	68.50	601.00	mg/L		2,062,369	9,381	1,176	10,325	48,103	
08/31/2023	Surface Water: Pixley	6.87	Acre Inches		0.00			mg/L			0	0	0	4,817	
08/31/2023	Waste Water: Main Lagoon	0.63	Acre Inches		546.00	68.50	601.00	mg/L		2,651,617	12,061	1,513	13,274	61,847	
09/30/2023	Harvest	26.30	Tons	67.94	1.61	0.30	3.54	%							42,082
	Acre Inches Applied:	**28.14**						**Totals:**		**9,470,062**	**47,831**	**6,524**	**48,741**	**253,619**	**42,082**
Season Nitrogen Ratio:	1.14							**Lbs Per Acre:**			**309**	**42**	**314**	**1,636**	**272**

South Creek Dairy 2023

Nutrient Applications (Attachment B)

Summary of Nutrient Applications, Removal, and Balance

	Total N (Lbs)	Total P (Lbs)	Total K (Lbs)	Total Salts (Lbs)	Total Manure Applied	
Solid Manure	0.00	0.00	0.00	0.00		tons
Process Wastewater	303,792.81	47,903.05	350,049.74	1,627,020.64	64,042,601.92	gallons
Irrigation Water	8,998.79					
Fertilizer / Total Imports	0.00					
Atmospheric Deposition	12,320.00					
Total Nitrogen Applied	**325,111.60**					
Crop Nitrogen Removal	415,602.80					
Nitrogen Balance	**(90,491.20)**					
Nitrogen Ratio	**0.78**					

- **Nutrient applications shown in Attachment B are on a calendar 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.**

South Creek Dairy 2023
Nutrient Applications (Attachment B)

FIELD NITROGEN RATIO Calculation:

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

ATMOSHERIC DEPOSITION Applied (lbs) Calculation:

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

HARVEST Nitrogen Extraction (Lbs) Calculation:

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

IRRIGATION Nitrogen and Salts Applied (Lbs) Calculations:

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

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

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

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

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

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

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

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

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

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

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

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

"Lbs Applied per Acre" Calculations:

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

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

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

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

South Creek Dairy 2023

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

A. ESTIMATED TOTAL MANURE TRANSFERRED OFFSITE

Total Manure Exported (tons)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total Salts Exported (lbs)**
800	22,819.01	8,429.95	34,446.53	0.00

* The Total Manure (tons) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.
** Total (N, P, K, Salts) (lbs) = Sum of (N, P, K, Salts) for each manure export event based on (Manure(tons) x 2000lb/ton) x ((100-moisture%)/100) x (N, P, K, and Ash) Concentration (%, dry weight) / 100 using the samples closest in date to the export event.

B. ESTIMATED TOTAL PROCESS WASTEWATER TRANSFERRED OFFSITE

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

* The Total Manure (gals) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.
** Total (Nitrogen, Phosphorus, Potassium, TDS) (lbs) = Sum of (Nitrogen, Phosphorus, Potassium, TDS) for each wastewater export event based on (Process Wastewater(gals) x 8.33lb/gal) x (N03-N or TKN, P, K, TDS) x 10-6 using the samples closest in date to the export event.

South Creek Dairy 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x313 x260 x007 xxxx, x314 x200 x014 xxxx	263	Process Wastewater
2	x314 x200 x013 xxxx, x314 x200 x020 xxxx	124	Process Wastewater
3	x314 x190 x001 xxxx, x314 x190 x003 xxxx, x314 x190 x004 xxxx	185	Process Wastewater
4	x314 x190 x005 xxxx, x314 x200 x021 xxxx	77	Process Wastewater
5	x314 x190 x015 xxxx, x314 x190 x018 xxxx	76	Process Wastewater
6	x314 x190 x019 xxxx, x314 x190 x020 xxxx, x314 x190 x021 xxxx	155	Process Wastewater
		880	

Production Area APN(s): x314 x190 x001 xxxx, x314 x190 x002 xxxx, x314 x190 x003 xxxx

South Creek Dairy 2023
Lab Results Summary (Attachment E)

Process Wastewater

(mgl/ppm unless noted otherwise)

									General Minerals						
Sample Date:	**TKN**	**TP**	**TK**	**EC (umhos/cm)**	**NH4N**	**NO3N**	**TDS**	**pH (units)**	**CA**	**MG**	**NA**	**HCO3**	**CO3**	**SO4**	**CL**
03/08/2023	431.00	101.00	651.00	6,260	197.00		2,980.00								
04/25/2023	807.00	130.00	674.00	7,310	399.00	1.10	3,600.00	7.20							
09/07/2023	546.00	68.50	601.00	6,870	415.00		2,800.00								
12/04/2023	501.00	83.00	1,010.00	6,990	393.00		3,420.00								
Averages:	571.25	95.62	734.00	6,858	351.00	1.10	3,200.00	7.20							

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	**TN**	**TP**	**TK**	**Moisture**	**Ash**	**CA**	**MG**	**NA**	**S**	**CL**
09/07/2023	1.57	0.58	2.37	9.16						%
Averages:	1.57	0.58	2.37	9.16						

Manure - Separator Solids

(Dry Weight Basis)

Sample Date:	**TN**	**TP**	**TK**	**Moisture**	**Ash**	**CA**	**MG**	**NA**	**S**	**CL**
09/07/2023	1.57	0.25	0.57	72.94						%
Averages:	1.57	0.25	0.57	72.94						

South Creek Dairy 2023

Lab Results Summary (Attachment E)

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
1	1	Wheat	05/12/2023	41.20	5.80	41.60	67.54	8.20
1	2	Milo	12/06/2023	26.00	4.80	49.20	75.64	10.60
2	1	Wheat	05/12/2023	42.20	6.00	44.00	68.57	8.00
2	2	Milo	12/06/2023	29.40	4.60	49.60	76.32	10.00
3	1	Wheat	05/12/2023	44.00	8.40	53.60	72.28	9.50
3	2	Milo	09/30/2023	34.80	6.40	55.80	68.19	11.30
4	1	Wheat	05/12/2023	43.40	8.20	53.20	72.04	9.90
4	2	Milo	12/06/2023	35.00	6.60	50.40	74.75	10.30
5	1	Wheat	05/12/2023	42.20	8.00	51.00	71.30	9.80
5	2	Milo	12/06/2023	36.60	7.00	50.20	75.31	11.30
6	1	Wheat	05/12/2023	41.20	7.40	41.40	67.35	9.10
6	2	Milo	09/30/2023	32.20	6.00	70.80	67.94	13.40

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

							General Minerals						
Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL
Domestic													

INNOVATIVE AG SERVICES

South Creek Dairy 2023
Lab Results Summary (Attachment E)

Well / Irrigation Water
(mgl/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals CA	MG	NA	HCO3	CO3	SO4	CL
Domestic														
Domestic Well	09/07/2023	1.40		302										
	Averages:	1.40		302										
Irrigation														
Irr Well #1	12/06/2023	13.00		1,570										
Irr Well #2	12/06/2023	6.60		922										
Irr Well #4	12/06/2023	1.20		353										
Irr Well #5	12/06/2023	4.80		730										
Irr Well #6	12/06/2023	9.60		1,220										
Irr Well #7	12/06/2023	6.40		915										
Irr Well #8								Did not run						
Irr Well #10	12/06/2023	5.60		762										
Irr Well #11	12/06/2023	13.00		1,540										
Irr Well #12								Did not run						
Irr Well #13	09/07/2023	1.20		247										
Irr Well #14								Did not run						
Irr Well #2B	12/06/2023	1.20		342										
	Averages:	6.26		860										

INNOVATIVE AG SERVICES

South Creek Dairy 2023

Lab Results Summary (Attachment E)

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

							General Minerals						
	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL
Surface Water														
Pixley (General)	06/28/2023	0.00		30		20.00	0.00							
	Averages:	0.00		30		20.00	0.00							

* NH4N was non-detectable unless a value is shown

South Creek Dairy 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 1								
	1	Wheat	263	10/24/2022	05/12/2023	18.0	4997.0	19.0
	2	Milo	263	07/02/2023	11/16/2023	25.0	6838.0	26.0
Field: 2								
	1	Wheat	124	10/24/2022	05/12/2023	18.0	2405.6	19.4
	2	Milo	124	07/07/2023	11/15/2023	25.0	3348.0	27.0
Field: 3								
	1	Wheat	185	10/25/2022	05/12/2023	18.0	3422.5	18.5
	2	Milo	185	07/02/2023	09/30/2023	25.0	5087.5	27.5
Field: 4								
	1	Wheat	77	10/25/2022	05/12/2023	18.0	1463.0	19.0
	2	Milo	77	07/05/2023	11/15/2023	25.0	2040.5	26.5
Field: 5								
	1	Wheat	76	10/25/2022	05/12/2023	18.0	1444.0	19.0
	2	Milo	76	07/04/2023	11/16/2023	25.0	2090.0	27.5
Field: 6								
	1	Wheat	155	10/25/2022	05/12/2023	18.0	2821.0	18.2
	2	Milo	155	06/25/2023	09/30/2023	25.0	4076.5	26.3

South Creek Dairy 2023

Weather Data (Attachment G)

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

*Note: SWP = Standing Water Present

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: Christopher Jongsma

Name of Dairy Facility: South Creek Dairy

Facility Address: 11450 Avenue 64 (Number and Street) Earlimart, CA (City) 93219 (Zip Code)

Contact Person Name and Phone Number: Christopher Jongsma (Name) (559) 786-9674 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Etchegaray Farms, LLC

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

Contact Person: Steve Etchegaray (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:

_____ (Number and Street) _____ (City, Zip Code) _____ (Zip Code) 333-230-008, 333-230-009 333-180-014, 313-030-014 (Assessor's Parcel Number)

Dates Hauled: 10/15/2023

~~**Amount Hauled:**~~

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

Manure: 800 Tons or Cubic Yards (indicate which units used)
Manure Solids Content (if amount reported in tons): 9.16% Corral Solids
Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

_____

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

_____

Written Agreement:
Does the Operator have a written agreement (in compliance with Land Application Specification 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.

DocuSigned by:
Operator's Signature: Christopher Jongsma Date: 6/26/2024
089CCA89D7EF43A...

Hauler's Signature: (See next page) Date: _____

To whom it may concern –

Etchegaray Farms, LLC removed manure from South Creek Dairy and we applied on the following APN's:

800 tons total

- 333-230-008
- 333-230-009
- 333-180-014
- 313-030-014

Respectfully,

Steve Etchegaray

DELLAVALLE™
LABORATORY INC

South Creek Dairy
11450 Ave 64
Earlimart, CA 93219

Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0456-01	IW #1	Ag Water	Christopher Jongsma		12/06/2023 7:25
23L0456-02	IW #2	Ag Water	Christopher Jongsma		12/06/2023 7:40
23L0456-03	~~IW New~~ IW4	Ag Water	Christopher Jongsma		12/06/2023 7:30
23L0456-04	IW #6	Ag Water	Christopher Jongsma		12/06/2023 7:46
23L0456-05	IW #7	Ag Water	Christopher Jongsma		12/06/2023 7:15
23L0456-06	IW #10	Ag Water	Christopher Jongsma		12/06/2023 7:51
23L0456-07	IW #11	Ag Water	Christopher Jongsma		12/06/2023 7:10
23L0456-08	IW #5	Ag Water	Christopher Jongsma		12/06/2023 7:35
23L0456-09	IW #2B	Ag Water	Christopher Jongsma		12/06/2023 7:20

Default Cooler — Temperature on Receipt °C: -2.1
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
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Sample Results

Sample: IW #1
23L0456-01 (Water)

Sampled: 12/6/2023 7:25
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.57**	mmhos/cm	0.01	1		12/11/23 17:24	SM 2510 B		BEL0302
Electrical Conductivity umhos	**1570**	umhos/cm	10.0	1		12/11/23 17:24	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:25	Field		BEL0485
Nitrate Nitrogen as NO3N	**13.0**	mg/L	0.1	1	10	12/07/23 20:32	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:24	SM 4500-H+	H	BEL0302
pH	**7.4**	units	1.0	1		12/11/23 17:24	SM 4500-H+	H	BEL0302

DELLAVALLE™
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Sample Results
(Continued)

Sample: IW #2
23L0456-02 (Water)

Sampled: 12/6/2023 7:40
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.92**	mmhos/cm	0.01	1		12/11/23 17:25	SM 2510 B		BEL0302
Electrical Conductivity umhos	**922**	umhos/cm	10.0	1		12/11/23 17:25	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:40	Field		BEL0485
Nitrate Nitrogen as NO3N	**6.6**	mg/L	0.1	1	10	12/07/23 20:53	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:25	SM 4500-H+	H	BEL0302
pH	**7.5**	units	1.0	1		12/11/23 17:25	SM 4500-H+	H	BEL0302

DELLAVALLE™
LABORATORY INC

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Account# 00-0021467
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Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Sample Results
(Continued)

Sample: ~~**IW-New**~~ IW4
23L0456-03 (Water)

Sampled: 12/6/2023 7:30
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.35**	mmhos/cm	0.01	1		12/11/23 17:27	SM 2510 B		BEL0302
Electrical Conductivity umhos	**353**	umhos/cm	10.0	1		12/11/23 17:27	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:30	Field		BEL0485
Nitrate Nitrogen as NO3N	**1.2**	mg/L	0.1	1	10	12/07/23 21:14	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:27	SM 4500-H+	H	BEL0302
pH	**8.2**	units	1.0	1		12/11/23 17:27	SM 4500-H+	H	BEL0302

DELLAVALLE™
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Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Sample Results
(Continued)

Sample: IW #6
23L0456-04 (Water)

Sampled: 12/6/2023 7:46
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.22**	mmhos/cm	0.01	1		12/11/23 17:28	SM 2510 B		BEL0302
Electrical Conductivity umhos	**1220**	umhos/cm	10.0	1		12/11/23 17:28	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:46	Field		BEL0485
Nitrate Nitrogen as NO3N	**9.6**	mg/L	0.1	1	10	12/07/23 21:34	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:28	SM 4500-H+	H	BEL0302
pH	**7.5**	units	1.0	1		12/11/23 17:28	SM 4500-H+	H	BEL0302

DELLAVALLE™
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Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Sample Results
(Continued)

Sample: IW #7
23L0456-05 (Water)

Sampled: 12/6/2023 7:15
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.92**	mmhos/cm	0.01	1		12/11/23 17:29	SM 2510 B		BEL0302
Electrical Conductivity umhos	**915**	umhos/cm	10.0	1		12/11/23 17:29	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:15	Field		BEL0485
Nitrate Nitrogen as NO3N	**6.4**	mg/L	0.1	1	10	12/07/23 21:55	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:29	SM 4500-H+	H	BEL0302
pH	**7.5**	units	1.0	1		12/11/23 17:29	SM 4500-H+	H	BEL0302

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Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Sample Results
(Continued)

Sample: IW #10
23L0456-06 (Water)

Sampled: 12/6/2023 7:51
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.76**	mmhos/cm	0.01	1		12/11/23 17:31	SM 2510 B		BEL0302
Electrical Conductivity umhos	**762**	umhos/cm	10.0	1		12/11/23 17:31	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:51	Field		BEL0485
Nitrate Nitrogen as NO3N	**5.6**	mg/L	0.1	1	10	12/08/23 02:06	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:31	SM 4500-H+	H	BEL0302
pH	**7.4**	units	1.0	1		12/11/23 17:31	SM 4500-H+	H	BEL0302

DELLAVALLE™
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Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Sample Results
(Continued)

Sample: IW #11
23L0456-07 (Water)

Sampled: 12/6/2023 7:10
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.54**	mmhos/cm	0.01	1		12/11/23 17:32	SM 2510 B		BEL0302
Electrical Conductivity umhos	**1540**	umhos/cm	10.0	1		12/11/23 17:32	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:10	Field		BEL0485
Nitrate Nitrogen as NO3N	**13.0**	mg/L	0.1	1	10	12/08/23 02:27	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:32	SM 4500-H+	H	BEL0302
pH	**7.4**	units	1.0	1		12/11/23 17:32	SM 4500-H+	H	BEL0302

DELLAVALLE™
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Received: 12/07/2023 15:35
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Sample Results
(Continued)

Sample: IW #5
23L0456-08 (Water)

Sampled: 12/6/2023 7:35
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.73**	mmhos/cm	0.01	1		12/11/23 17:34	SM 2510 B		BEL0302
Electrical Conductivity umhos	**730**	umhos/cm	10.0	1		12/11/23 17:34	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:35	Field		BEL0485
Nitrate Nitrogen as NO3N	**4.8**	mg/L	0.1	1	10	12/08/23 02:47	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:34	SM 4500-H+	H	BEL0302
pH	**7.6**	units	1.0	1		12/11/23 17:34	SM 4500-H+	H	BEL0302

DELLAVALLE™
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Earlimart, CA 93219

Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Sample Results
(Continued)

Sample: IW #2B
23L0456-09 (Water)

Sampled: 12/6/2023 7:20
Sampled By: Christopher Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.34**	mmhos/cm	0.01	1		12/11/23 17:41	SM 2510 B		BEL0302
Electrical Conductivity umhos	**342**	umhos/cm	10.0	1		12/11/23 17:41	SM 2510 B		BEL0302
Ammonia (as N)	ND	mg/L	0.00	1		12/06/23 07:20	Field		BEL0485
Nitrate Nitrogen as NO3N	**1.2**	mg/L	0.1	1	10	12/08/23 03:08	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 17:41	SM 4500-H+	H	BEL0302
pH	**7.8**	units	1.0	1		12/11/23 17:41	SM 4500-H+	H	BEL0302

DELLAVALLE™
LABORATORY INC

South Creek Dairy
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Earlimart, CA 93219

Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Quality Control

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

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0243 (Continued)										
Reference (BEL0243-SRM3)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.2	90-110		
Reference (BEL0243-SRM4)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.3	90-110		

DELLAVALLE™
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Received: 12/07/2023 15:35
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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0302										
Blank (BEL0302-BLK1)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.7		1.0	units						
Blank (BEL0302-BLK2)					Prepared & Analyzed: 12/11/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0302-BLK3)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.4		1.0	units						
Duplicate (BEL0302-DUP1)		**Source: 23L0456-08**			Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	0.74		0.01	mmhos/cm		0.73			1.20	10
Electrical Conductivity umhos	739		10.0	umhos/cm		730			1.20	10
pH	7.5		1.0	units		7.6			0.133	10
Duplicate (BEL0302-DUP2)		**Source: 23L0553-01**			Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	5.41		0.01	mmhos/cm		5.37			0.668	10
Electrical Conductivity umhos	5410		10.0	umhos/cm		5370			0.668	10
pH	7.1		1.0	units		7.1			0.141	10
Reference (BEL0302-SRM1)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	434			umhos/cm	426.0		102	90-110		
Reference (BEL0302-SRM2)					Prepared & Analyzed: 12/11/2023					
pH	7.5			units	7.520		99.9	67021-101.3		
Reference (BEL0302-SRM3)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0302-SRM4)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0302-SRM5)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		

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Received: 12/07/2023 15:35
Reported: 12/13/2023 15:32

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0302 (Continued)										
Reference (BEL0302-SRM5)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0302-SRM6)					Prepared & Analyzed: 12/11/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEL0302-SRM7)					Prepared & Analyzed: 12/11/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEL0302-SRM8)					Prepared & Analyzed: 12/11/2023					
pH	4.0			units	4.000		99.8	97.5-102.5		

12/07/23 15:35 23L0456

JG

WATER WORK REQUEST

Acct No. / Cons.

Bill To: 21467 / 8

Purchase Order No. | Results Needed By

Client: South Creek Dairy
Address: 11450 Ave 64
City, State, Zip: Earlimart, CA 93219
Phone: | Fax:
Cell/Email:

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

Requested by: Christopher Jongsma - (559) 786-9674

Ranch:

Date sampled: 12/6/23

Sampled by: Christopher Jongsma

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

DESCRIPTION OF SAMPLES

		Sampled From:
1.	IW #1	
2.	IW #2	
3.	~~New~~ IW4	
4.	IW #6	
5.	IW #7	
6.	IW #10	
7.	IW #11	
8.	IW #5	
9.	IW #28	
10.		

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

DELLAVALLE LABORATORY, INC.

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

No. of Samples: 9 No. Bottles: 9

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

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

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

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

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

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

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

( ) Other

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
12/6/23	725A	Ø	-2.1
12/6/23	740A	Ø	-2.8
12/6/23	730A	Ø	-3.0
12/6/23	746A	Ø	-2.7
12/6/23	715A	Ø	-3.3
12/6/23	751A	Ø	-3.0
12/6/23	710A	Ø	-2.2
12/6/23	735A	Ø	2.2
12/6/23	720A	Ø	1.3

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Cjongsma	Southcreek	12/6/23 7:50A	12/6/23 8pm
Second	M Pedroza	CAS INC	12/6/23 8pm	12/7/23 11A
Third	JLF	DLV	12-7-23 11:00	12-7-23 3:15
Fourth		DLI	12.7.23 15:35	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

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

Invoicing Information:

Shipping

$ _____ In
Sampling Hrs ___ Miles ___ Consulting ___ $ _____ Out

Amt Paid | Rec By | Check No. | Date

Signature _____

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

cn update 2020

DELLAVALLE™
LABORATORY INC

South Creek Dairy
11450 Ave 64
Earlimart, CA 93219

Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:46

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0566-01	~~DW MB~~ Domestic Well	Well Water	V. Belo		09/07/2023 12:10
23I0566-02	IW #13	Well Water	V. Belo		09/07/2023 12:30

Default Cooler Temperature on Receipt °C: 2.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFarland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
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Submitted By: Christopher Jongsma

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:46

Sample Results

Sample: ~~DW MB~~ Domestic Well
23I0566-01 (Water)

Sampled: 9/7/2023 12:10
Sampled By: V. Belo

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.30**	mmhos/cm	0.01	1		09/08/23 13:40	SM 2510 B		BEI0231
Electrical Conductivity umhos	**302**	umhos/cm	10.0	1		09/08/23 13:40	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 12:10	Field		BEI0213
Nitrate Nitrogen as NO3N	**1.4**	mg/L	0.1	1	10	09/09/23 07:41	EPA 300.0		BEI0223
pH	**8.4**	units	1.0	1		09/08/23 13:40	SM 4500-H+	H	BEI0231
Temperature	**25.0**	°C	0.0	1		09/08/23 13:40	SM 2510 B		BEI0231

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Received: 09/08/2023 7:15
Reported: 09/12/2023 11:46

Sample Results
(Continued)

Sample: IW #13
23I0566-02 (Water)

Sampled: 9/7/2023 12:30
Sampled By: V. Belo

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.25**	mmhos/cm	0.01	1		09/08/23 13:41	SM 2510 B		BEI0231
Electrical Conductivity umhos	**247**	umhos/cm	10.0	1		09/08/23 13:41	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 12:30	Field		BEI0213
Nitrate Nitrogen as NO3N	**1.2**	mg/L	0.1	1	10	09/09/23 08:02	EPA 300.0		BEI0223
pH	**8.9**	units	1.0	1		09/08/23 13:41	SM 4500-H+	H	BEI0231
Temperature	**25.0**	°C	0.0	1		09/08/23 13:41	SM 2510 B		BEI0231

DELLAVALLE™
LABORATORY INC

South Creek Dairy
11450 Ave 64
Earlimart, CA 93219

Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:46

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0223										
Blank (BEI0223-BLK1)					Prepared & Analyzed: 9/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0223-BLK2)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0223-BLK3)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0223-BLK4)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEI0223-BS1)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.4	90-110		
LCS (BEI0223-BS2)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.6	90-110		
LCS (BEI0223-BS3)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.5	90-110		
Duplicate (BEI0223-DUP1)		**Source: 23I0564-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	0.5		0.1	mg/L		0.4			1.11	10
Duplicate (BEI0223-DUP2)		**Source: 23I0567-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	1.8		0.1	mg/L		1.8			0.0544	10
Duplicate (BEI0223-DUP3)		**Source: 23I0569-02**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	0.4		0.1	mg/L		0.4			2.11	10
Matrix Spike (BEI0223-MS1)		**Source: 23I0S64-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000	0.4	96.4	90-110		
Matrix Spike (BEI0223-MS2)		**Source: 23I0567-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	6.7		0.1	mg/L	5.000	1.8	97.6	90-110		
Matrix Spike (BEI0223-MS3)		**Source: 23I0569-02**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000	0.4	95.4	90-110		
Reference (BEI0223-SRM1)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		96.4	90-110		
Reference (BEI0223-SRM2)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		96.1	90-110		

DELLAVALLE™
LABORATORY INC

South Creek Dairy
11450 Ave 64
Earlimart, CA 93219

Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:46

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0223 (Continued)										
Reference (BEI0223-SRM3)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		96.3	90-110		
Reference (BEI0223-SRM4)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.5	90-110		

DELLAVALLE™
LABORATORY INC

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Received: 09/08/2023 7:15
Reported: 09/12/2023 11:46

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231										
Blank (BEI0231-BLK1)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0231-BLK2)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.0		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEI0231-BLK3)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	6.6		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEI0231-DUP1)		**Source: 23I0566-01**			Prepared & Analyzed: 9/8/2023					
pH	8.4		1.0	units		8.4			0.119	10
Electrical Conductivity	0.30		0.01	mmhos/cm		0.30			0.732	10
Electrical Conductivity umhos	300		10.0	umhos/cm		302			0.732	10
Duplicate (BEI0231-DUP2)		**Source: 23I0569-01**			Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	0.48		0.01	mmhos/cm		0.48			0.188	10
pH	7.8		1.0	units		7.8			0.255	10
Electrical Conductivity umhos	479		10.0	umhos/cm		480			0.188	10
Reference (BEI0231-SRM1)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	517			umhos/cm	538.0		96.2	90-110		
Reference (BEI0231-SRM2)					Prepared & Analyzed: 9/8/2023					
pH	5.8			units	5.820		99.8	28178-101.7:		
Reference (BEI0231-SRM3)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	965			umhos/cm	1000		96.5	90-110		
Electrical Conductivity umhos	965			umhos/cm	1000		96.5	90-110		
Reference (BEI0231-SRM4)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	961			umhos/cm	1000		96.1	90-110		
Electrical Conductivity umhos	961			umhos/cm	1000		96.1	90-110		
Reference (BEI0231-SRM5)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	965			umhos/cm	1000		96.5	90-110		

DELLAVALLE™
LABORATORY INC

South Creek Dairy
11450 Ave 64
Earlimart, CA 93219

Account# 00-0021467
Account Manager: Ben Nydam
Submitted By: Christopher Jongsma

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:46

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231 (Continued)										
Reference (BEI0231-SRM5)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity umhos	965			umhos/cm	1000		96.5	90-110		
Reference (BEI0231-5RM6)					Prepared & Analyzed: 9/8/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0231-SRM7)					Prepared & Analyzed: 9/8/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0231-SRM8)					Prepared & Analyzed: 9/8/2023					
pH	4.0			units	4.000		100	97.5-102.5		

09/08/23 07:15 2:10566

WATER WORK REQUEST

Acct No. 21467 Cons. 8

Bill To:

Purchase Order No. Results Needed By

Client: South Creek Dairy
Address: 11450 Ave 64
City, State, Zip: Earlimart, CA 93219
Phone: Fax:
Cell/Email:

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

Requested by: Christopher Jongsma - (559) 786-9674

Ranch:

Date sampled: 9/7/23

Sampled by: V. Bell

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

DELLAVALLE LABORATORY, INC.

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

No. of Samples: 2 No. Bottles: 2

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

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

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

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

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

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

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

( ) Other

DESCRIPTION OF SAMPLES		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C H/F
1. ~~DW MP~~ Domestic Well	Sampled From:	9/7/23	12:10pm	0	2.8 / -0.3
2. IW #13	Sampled From:	9/7/23	12:30pm	0	1.9 / -0.1
3. ~~DAIRY~~	Sampled From:				
4. ~~DAIRY~~	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

IR Thermometer SN: 221511274
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	V. Bell	CASIRE	9/7/23 @ 12:12pm	9/7/23 @ 4:30pm
Second	[signature]	DLI	9/7/23 4:30 p.m	
Third				
Fourth	9/8	DLE	9/8 07:15	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.
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Invoicing Information:

Sampling Hrs ___ Miles ___ Consulting ___

Amt Paid Rec By Check No Date

Shipping

$ ___ In
$ ___ Out

Signature

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

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☑ DLI Sampler ☐ Other ☐ _____

Container: Ice Chest ☑ Box ☐ None ☐ **Refrigerant:** Wet Ice ☐ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1								
	1 L unpreserved (BOD) (Purple) Plastic										
=	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ + MCAA										
	40 mL AG VOA, $Na_2S_2O_3$										
	40mL AG VOA unpreserved (White) (Set of 3										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

09/08/23 07:15 2310566