Livingston Dairy Consulting, Inc.

1635 E. Propserity Ave., Ste B, Tulare
559-687-1440

Goyenetche Dairy, LLC WDID 5D155073001
6041 Brandt Road Buttonwillon, CA 93206

X	Annual Report
X	Water Analysis Samples
X	Manure Manifest
N/A	Facility / Land Map
X	CCA Nitrogen Retrofit Report

GEO Tracker Confirmation # **Date:**

Facility Info

Reporting Period: **1/1/2023** **to** **12/31/2023**

Name of the Facility

Dairy Name: Goyenetche Dairy, LLC WDID 5D155073001

Facility Address: 6041 Brandt Road Buttonwillon, CA 93206

Original Operation Date: 12/20/1999

Facility APN's: x103 x050 xx03 xxxx, x103 x050 xx04 xxxx

RWQCB Basin Plan Designation: Tulare Lake Basin

☐ Check if any information has changed

Owner(s)

Owner(s) Name: Gracie, Michael & John Goyenetche

Mailing Address: P.O. Box 816 Buttonwillow, CA 93206

Home Phone Number:

Cell Phone Number: 661-978-9702

☐ Check if any information has changed

Operator(s)

Operator(s) Name: Same as owner

Mailing Address:

Home Phone Number:

Cell Phone Number:

☐ Check if any information has changed

Herd Information

	Milk Cows	Dry Cows	Bred Heifers (12-24 mo)	Heifers (3-12 mo)	Calves (0-3 mo)
Open Confinement:	-	392	1,577	1,205	619
Number Under Roof	3,981	-	-	-	-
Maximum Number	3,981	392	1,577	1,205	619
Average Number	3,981	392	1,577	1,205	619
Average Live Weight (lbs)	1,400	1,450	950	630	

Average Milk Production: 68

Predominant Milk Cow Breed: Holstein

Manure Generated:

Total manure excreted by the herd:	17,932.01	@40% Moisture	*ton/yr*
Total nitrogen from manure:	1,314,010		*lbs*
	154,434		*lbs*
	816,115		*lbs*
Total salt from manure:	-		*lbs*

After Ammonia (30% loss applied)

919,807 *lbs per reporting period*

Process Wastewater Generated:

Process wastewater generated:	58,122,600	*gal*
Total nitrogen generated:	405,713	*lbs*
	106,097	*lbs*
	775,086	*lbs*
Total salt (TDS) generated:	4,655,504	*lbs*

List of Land Application Areas

Field Name	APN	APN Acres	Cropable Acres	Total Harvest	Type of Waste Applied
D1	x103 x080 xx30 xxxx	115	55	8	N/A
D2	x103 x080 xx30 xxxx, x103 x080 xx03 xxxx	25	68	2	P.W. & D.M.
D3	x103 x080 xx03 xxxx, x103 x080 xx05 xxxx	113	59	2	P.W. & D.M.
D4	x103 x080 xx01 xxxx, x103 x080 xx02 xxxx, x103 x080 xx12 xxxx	179	122	2	P.W. & D.M.
D5E/W	x103 x050 xx04 xxxx	613	79	2	P.W. & D.M.
D6	x103 x050 xx04 xxxx		75	2	P.W. & D.M.
D7	x103 x050 xx04 xxxx		77	2	P.W. & D.M.
D8	x103 x050 xx04 xxxx		75	2	P.W. & D.M.
D9N	x103 x050 xx04 xxxx		75	2	P.W. & D.M.
D9S	x103 x050 xx04 xxxx		75	2	P.W. & D.M.
D10	x103 x020 xx04 xxxx	20	20	2	P.W. & D.M.
D11	x103 x020 xx23 xxxx	14	10	0	N/A
D12	x103 x020 xx09 xxxx	5	5	0	N/A
D13N	xx01 xxxx, x103 x080 xx02 xxxx, x103 x080 xx03 xxxx, x103 x080 xx04 xxxx, x103 x080	293	144	0	N/A
D13S-E	x103 x080 xx31 xxxx		75	2	P.W. & D.M.
	Total Crop Acres		1,014.00		

List of Land Application Areas

Field Name	APN	APN Acres	Cropable Acres	Total Harvest	Type of Waste Applied
GC1	x103 x020 xx31 xxxx	240	38	2	P.W. & D.M.
GC2	x103 x020 xx31 xxxx		38	2	P.W. & D.M.
GC3W	x103 x020 xx31 xxxx		78	2	P.W. & D.M.
GC3E	x103 x020 xx31 xxxx		76	1	P.W. & D.M.
H1	x104 x040 xx22 xxxx	75	35	8	N/A
H2	x104 x040 xx22 xxxx		37	2	Dry Manure
H3	x104 x040 xx02 xxxx	27	24	2	Dry Manure
H4	x104 x040 xx03 xxxx, x104 x040 xx13 xxxx, x104 x040 xx02 xxxx	67	60	2	Dry Manure
H5N	x104 x040 xx12 xxxx	80	39	1	Dry Manure
RS1	x103 x040 xx10 xxxx, x103 x040 xx21 xxxx		54	2	Dry Manure
RS2	x103 x040 xx10 xxxx	143	87	8	N/A
RS4W	x103 x040 xx39 xxxx, x103 x040 xx41 xxxx		60	2	Dry Manure
29-Wasco	x104 x040 xx46 xxxx	36	33	2	Dry Manure
30-Wasco	x103 x030 xx45 xxxx	55	55	8	N/A
31-Bussell	x104 x040 xx05 xxxx	87	80	2	Dry Manure
	Total Crop Acres		794.00		

List of Land Application Areas

Field Name	APN	APN Acres	Cropable Acres	Total Harvest	Type of Waste Applied
D13S-W	x103 x080 xx31 xxxx		75	8	N/A
	Total Crop Acres		75.00		

List of Fresh Water Sources

Source Description	Type	Subsurface (Tile) Drainage Sources
Barn	Ground Water	No
BR Dom	Ground Water	No
Wasco Way	Ground Water	No
D1	Ground Water	No
D2	Ground Water	No
D3	Ground Water	No
D4	Ground Water	No
D5	Ground Water	No
BR 31 (Bussell)	Ground Water	No
G-1	Ground Water	No
H-1	Ground Water	No
H-2 (Old)	Ground Water	No
H-2 (New)	Ground Water	No
R-1	Ground Water	No
R-2	Ground Water	No
H-3	Ground Water	No
Canal	Surface Water	No

(WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
D1	Alfalfa, Green Chop	59.70	1.54	0.14	0.92	-	10.10	4-6H45627	04/06/23	Valley Tech
D2	Sudangrass Silage	67.60	0.60	0.12	1.16	-	12.10	2-27H43724	02/27/23	Valley Tech
D3	Wheat, Silage	70.70	0.43	0.09	0.60	-	10.20	6-8H53068	06/08/23	Valley Tech
D4	Wheat, Silage	57.00	0.74	0.15	0.71	-	10.50	6-1H51911	06/01/23	Valley Tech
D5E/W	Wheat, Silage	60.50	0.59	0.15	0.68	-	12.49	6-1H51911	06/01/23	Valley Tech
D6	Wheat, Silage	60.40	0.63	0.11	0.76	-	10.40	6-8H53068	06/08/23	Valley Tech
D7	Wheat, Silage	63.20	0.69	0.14	0.79	-	12.30	6-1H51911	06/01/23	Valley Tech
D8	Wheat, Silage	67.90	0.45	0.06	0.46	-	7.42	6-8H53068	06/08/23	Valley Tech
D9N	Wheat, Silage	64.20	0.53	0.13	0.96	-	10.60	6-8H53068	06/08/23	Valley Tech
D9S	Alfalfa, Green Chop	56.30	1.56	0.14	0.97	-	9.13	4-6H45627	04/06/23	Valley Tech
D10	Wheat, Silage	59.10	0.59	0.13	0.74	-	11.60	6-1H51911	06/01/23	Valley Tech
D11	W. Fallow	-	-	-	-	-	-	Fallow		-
D12	W. Fallow	-	-	-	-	-	-	Fallow		-
D13N	W. Fallow	-	-	-	-	-	-	Fallow		-
D13S-E	W. Fallow	-	-	-	-	-	-	Fallow		-
Detectable Lim Valley Tech		*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*			
Dellavalle		*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*			
Detectable Limits										
Valley Tech		*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*			
Dellavalle		*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*			

(WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
GC1	Wheat, Silage	63.00	0.54	0.10	0.52	-	9.29	6-1H51911	06/01/23	Valley Tech
GC2	Wheat, Silage	66.90	0.47	0.11	0.51	-	9.91	6-1H51911	06/01/23	Valley Tech
GC3W	Wheat, Silage	52.70	0.64	0.17	0.76	-	10.70	6-1H51911	06/01/23	Valley Tech
GC3E	W. Fallow	-	-	-	-	-	-	Fallow		-
H1	Alfalfa, Green Chop	58.40	1.69	0.13	0.89	-	11.30	4-26H47759	04/26/23	Valley Tech
H2	Wheat, Silage	59.10	0.35	0.07	0.21	-	5.99	5-12H49721	05/12/23	Valley Tech
H3	Wheat, Silage	59.70	0.40	0.07	0.21	-	6.43	5-12H49721	05/12/23	Valley Tech
H4	Wheat, Silage	58.80	0.37	0.07	0.28	-	5.04	5-12H49721	05/12/23	Valley Tech
H5N	Wheat, Silage	55.40	0.35	0.06	0.23	-	5.74	5-12H49721	05/12/23	Valley Tech
RS1	Alfalfa, Green Chop	51.90	1.65	0.17	0.99	-	11.10	4-6H45627	04/06/23	Valley Tech
RS2	Alfalfa, Green Chop	50.50	1.56	0.17	0.95	-	8.76	4-6H45627	04/06/23	Valley Tech
RS4W	Wheat, Silage	59.70	0.31	0.08	0.39	-	8.13	6-8H53068	06/08/23	Valley Tech
29-Wasco	Wheat, Silage	59.20	0.28	0.08	0.32	-	6.69	6-8H53068	06/08/23	Valley Tech
30-Wasco	Alfalfa, Green Chop	43.70	2.13	0.17	1.19	-	11.20	4-26H47759	04/26/23	Valley Tech
31-Bussell	Wheat, Silage	60.00	0.33	0.07	0.24	-	5.83	5-12H49721	05/12/23	Valley Tech
Detectable Lim Valley Tech		*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*			
Dellavalle		*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*			
Detectable Limits										
Valley Tech		*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*			
Dellavalle		*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*			

(WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)

Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
D13S-W	Alfalfa, Green Chop	65.60	1.08	0.12	0.75	-	13.60	4-6H45627	04/06/23	Valley Tech

Detectable Lim	*Valley Tech*	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
	Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*
Detectable Limits						
Valley Tech		*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle		*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
D1	Alfalfa, Green Chop	-	-	-	-	-	-	See Winter		-
D2	Corn, Silage	63.50	0.46	0.10	0.35	-	6.10	10-19H70148	10/19/23	Valley Tech
D3	Corn, Silage	63.70	0.49	0.09	0.33	-	5.12	10-11H68946	10/11/23	Valley Tech
D4	Corn, Silage	64.20	0.56	0.11	0.58	-	7.69	10-11H68946	10/11/23	Valley Tech
D5E/W	Corn, Silage	64.50	0.42	0.09	0.49	-	5.85	10-11H68946	10/11/23	Valley Tech
D6	Corn, Silage	65.00	0.51	0.07	0.54	-	6.44	10-11H68946	10/11/23	Valley Tech
D7	Corn, Silage	66.80	0.41	0.08	0.42	-	5.52	10-11H68946	10/11/23	Valley Tech
D8	Corn, Silage	60.40	0.52	0.09	0.42	-	4.22	11-10H72596	11/10/23	Valley Tech
D9N	Corn, Silage	63.70	0.49	0.09	0.33	-	5.12	10-11H68946	10/11/23	Valley Tech
D9S	Corn, Silage	62.40	0.47	0.10	0.38	-	5.65	8-16H61803	08/16/24	Valley Tech
D10	Corn, Silage	55.60	0.62	0.10	0.36	-	3.98	11-10H72596	11/10/23	Valley Tech
D11	S. Fallow	-	-	-	-	-	-	Fallow		-
D12	S. Fallow	-	-	-	-	-	-	Fallow		-
D13N	S. Fallow	-	-	-	-	-	-	Fallow		-
D13S-E	Corn, Silage	67.90	0.39	0.09	0.38	-	6.21	8-18H62254	08/18/23	Valley Tech

Detectable Limits					
Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
GC1	Corn, Silage	61.30	0.45	0.09	0.26	-	4.51	10-11H68946	10/11/23	Valley Tech
GC2	Corn, Silage	64.70	0.40	0.09	0.26	-	4.88	10-11H68946	10/11/23	Valley Tech
GC3W	Corn, Silage	33.70	2.01	0.19	1.40	-	9.98	10-3H67630	10/03/23	Valley Tech
GC3E	Corn, Silage	65.90	0.36	0.10	0.34	-	5.62	10-11H68946	10/11/23	Valley Tech
H1	Alfalfa, Green Chop	-	-	-	-	-	-	See Winter		-
H2	Corn, Silage	65.20	0.37	0.09	0.22	-	4.35	10-11H68946	10/11/23	Valley Tech
H3	Corn, Silage	64.60	0.25	0.10	0.27	-	5.08	10-11H68946	10/11/23	Valley Tech
H4	Corn, Silage	67.30	0.26	0.09	0.25	-	4.77	10-11H68946	10/11/23	Valley Tech
H5N	S. Fallow	-	-	-	-	-	-	Fallow		-
RS1	Corn, Silage	62.80	0.43	0.12	0.29	-	5.10	8-16H61803	08/16/23	Valley Tech
RS2	Alfalfa, Green Chop	-	-	-	-	-	-	See Winter		-
RS4W	Corn, Silage	62.60	0.34	0.09	0.19	-	3.95	10-11H68946	10/11/23	Valley Tech
29-Wasco	Corn, Silage	56.40	0.43	0.14	0.29	-	5.01	10-11H68946	10/11/23	Valley Tech
30-Wasco	Alfalfa, Green Chop	-	-	-	-	-	-	See Winter		-
31-Bussell	Corn, Silage	64.80	0.33	0.09	0.27	-	5.25	10-11H68946	10/11/23	Valley Tech

Detectable Limits					
Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	**Crop**	**Moist %**	**N%**	**TP %**	**TK%**	**Salt**	**TFS**	**Sample #:**	**Date:**	**Source**
D13S-W	Alfalfa, Green Chop	-	-	-	-	-	-	See Winter		-

Detectable Limits					
Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
D1	Alfalfa, Green Chop	11/4/18	10/1/23	4-6H45627	59.70	1.54	0.14	0.92	-	10.10	Dry Weight
D2	Sudangrass Silage	10/17/22	2/27/23	2-27H43724	67.60	0.60	0.12	1.16	-	12.10	Dry Weight
D3	Wheat, Silage	11/17/22	5/18/23	6-8H53068	70.70	0.43	0.09	0.60	-	10.20	Dry Weight
D4	Wheat, Silage	10/27/22	5/17/23	6-1H51911	57.00	0.74	0.15	0.71	-	10.50	Dry Weight
D5E/W	Wheat, Silage	10/28/22	5/18/23	6-1H51911	60.50	0.59	0.15	0.68	-	12.49	Dry Weight
D6	Wheat, Silage	11/29/22	5/9/23	6-8H53068	60.40	0.63	0.11	0.76	-	10.40	Dry Weight
D7	Wheat, Silage	11/25/22	5/22/23	6-1H51911	63.20	0.69	0.14	0.79	-	12.30	Dry Weight
D8	Wheat, Silage	10/29/22	5/18/23	6-8H53068	67.90	0.45	0.06	0.46	-	7.42	Dry Weight
D9N	Wheat, Silage	11/17/22	5/8/23	6-8H53068	64.20	0.53	0.13	0.96	-	10.60	Dry Weight
D9S	Alfalfa, Green Chop	10/28/18	3/27/23	4-6H45627	56.30	1.56	0.14	0.97	-	9.13	Dry Weight
D10	Wheat, Silage	11/18/22	5/24/23	6-1H51911	59.10	0.59	0.13	0.74	-	11.60	Dry Weight
D11	W. Fallow			Fallow	-	-	-	-	-	-	
D12	W. Fallow			Fallow	-	-	-	-	-	-	
D13N	W. Fallow			Fallow	-	-	-	-	-	-	
D13S-E	W. Fallow			Fallow	-	-	-	-	-	-	

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
GC1	Wheat, Silage	10/26/22	5/20/23	6-1H51911	63.00	0.54	0.10	0.52	-	9.29	Dry Weight
GC2	Wheat, Silage	10/26/22	5/20/23	6-1H51911	66.90	0.47	0.11	0.51	-	9.91	Dry Weight
GC3W	Wheat, Silage	11/6/22	5/8/23	6-1H51911	52.70	0.64	0.17	0.76	-	10.70	Dry Weight
GC3E	W. Fallow			Fallow	-	-	-	-	-	-	
H1	Alfalfa, Green Chop	11/7/22	10/1/23	4-26H47759	58.40	1.69	0.13	0.89	-	11.30	Dry Weight
H2	Wheat, Silage	10/22/22	4/26/23	5-12H49721	59.10	0.35	0.07	0.21	-	5.99	Dry Weight
H3	Wheat, Silage	10/21/22	4/26/23	5-12H49721	59.70	0.40	0.07	0.21	-	6.43	Dry Weight
H4	Wheat, Silage	10/22/22	4/27/23	5-12H49721	58.80	0.37	0.07	0.28	-	5.04	Dry Weight
H5N	Wheat, Silage	10/24/22	4/27/23	5-12H49721	55.40	0.35	0.06	0.23	-	5.74	Dry Weight
RS1	Alfalfa, Green Chop	11/1/18	3/30/23	4-6H45627	51.90	1.65	0.17	0.99	-	11.10	Dry Weight
RS2	Alfalfa, Green Chop	11/2/18	10/1/23	4-6H45627	50.50	1.56	0.17	0.95	-	8.76	Dry Weight
RS4W	Wheat, Silage	10/24/22	4/26/23	6-8H53068	59.70	0.31	0.08	0.39	-	8.13	Dry Weight
29-Wasco	Wheat, Silage	10/21/22	4/21/23	6-8H53068	59.20	0.28	0.08	0.32	-	6.69	Dry Weight
30-Wasco	Alfalfa, Green Chop	10/31/22	10/1/23	4-26H47759	43.70	2.13	0.17	1.19	-	11.20	Dry Weight
31-Bussell	Wheat, Silage	10/24/22	4/27/23	5-12H49721	60.00	0.33	0.07	0.24	-	5.83	Dry Weight

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
D13S-W	Alfalfa, Green Chop	11/8/20	10/1/23	4-6H45627	65.60	1.08	0.12	0.75	-	13.60	Dry Weight

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
D1	Alfalfa, Green Chop			See Winter	-	-	-	-	-	-	
D2	Corn, Silage	6/28/23	10/12/23	10-19H70148	63.50	0.46	0.10	0.35	-	6.10	Dry Weight
D3	Corn, Silage	6/25/23	10/5/23	10-11H68946	63.70	0.49	0.09	0.33	-	5.12	Dry Weight
D4	Corn, Silage	6/14/23	10/2/23	10-11H68946	64.20	0.56	0.11	0.58	-	7.69	Dry Weight
D5E/W	Corn, Silage	6/21/23	10/8/23	10-11H68946	64.50	0.42	0.09	0.49	-	5.85	Dry Weight
D6	Corn, Silage	6/17/23	10/5/23	10-11H68946	65.00	0.51	0.07	0.54	-	6.44	Dry Weight
D7	Corn, Silage	6/26/23	10/8/23	10-11H68946	66.80	0.41	0.08	0.42	-	5.52	Dry Weight
D8	Corn, Silage	6/19/23	10/17/23	11-10H72596	60.40	0.52	0.09	0.42	-	4.22	Dry Weight
D9N	Corn, Silage	5/30/23	10/7/23	10-11H68946	63.70	0.49	0.09	0.33	-	5.12	Dry Weight
D9S	Corn, Silage	4/21/23	8/7/23	8-16H61803	62.40	0.47	0.10	0.38	-	5.65	Dry Weight
D10	Corn, Silage	6/26/23	10/17/23	11-10H72596	55.60	0.62	0.10	0.36	-	3.98	Dry Weight
D11	S. Fallow			Fallow	-	-	-	-	-	-	
D12	S. Fallow			Fallow	-	-	-	-	-	-	
D13N	S. Fallow			Fallow	-	-	-	-	-	-	
D13S-E	Corn, Silage	4/20/23	8/3/23	8-18H62254	67.90	0.39	0.09	0.38	-	6.21	Dry Weight

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
GC1	Corn, Silage	6/17/23	10/5/23	10-11H68946	61.30	0.45	0.09	0.26	-	4.51	Dry Weight
GC2	Corn, Silage	6/17/23	10/3/23	10-11H68946	64.70	0.40	0.09	0.26	-	4.88	Dry Weight
GC3W	Corn, Silage	6/24/23	10/1/23	10-3H67630	33.70	2.01	0.19	1.40	-	9.98	Dry Weight
GC3E	Corn, Silage	5/31/23	10/5/23	10-11H68946	65.90	0.36	0.10	0.34	-	5.62	Dry Weight
H1	Alfalfa, Green Chop			See Winter	-	-	-	-	-	-	
H2	Corn, Silage	5/19/23	9/28/23	10-11H68946	65.20	0.37	0.09	0.22	-	4.35	Dry Weight
H3	Corn, Silage	5/21/23	10/4/23	10-11H68946	64.60	0.25	0.10	0.27	-	5.08	Dry Weight
H4	Corn, Silage	5/26/23	10/5/23	10-11H68946	67.30	0.26	0.09	0.25	-	4.77	Dry Weight
H5N	S. Fallow			Fallow	-	-	-	-	-	-	
RS1	Corn, Silage	4/20/23	8/15/23	8-16H61803	62.80	0.43	0.12	0.29	-	5.10	Dry Weight
RS2	Alfalfa, Green Chop			See Winter	-	-	-	-	-	-	
RS4W	Corn, Silage	5/17/23	8/30/23	10-11H68946	62.60	0.34	0.09	0.19	-	3.95	Dry Weight
29-Wasco	Corn, Silage	5/17/23	8/29/23	10-11H68946	56.40	0.43	0.14	0.29	-	5.01	Dry Weight
30-Wasco	Alfalfa, Green Chop			See Winter	-	-	-	-	-	-	
31-Bussell	Corn, Silage	5/20/23	8/30/23	10-11H68946	64.80	0.33	0.09	0.27	-	5.25	Dry Weight

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
D13S-W	Alfalfa, Green Chop			See Winter	-	-	-	-	-	-	

Detectable L Valley Tech					*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*	
Dellavalle					*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*	

Well / Canal Analysis

General Minerals

Well Name/Number	NO3-N (mg/L)	EC (umhos/cm)	TDS (mg/L)	NH4-N (mg/L)	TN (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	HCO3 (mg/L)	CO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	Lab #:	Date:	LAB
Barn	10.30	789	490	-	10.30	-	-	-	-	-	-	-	VI 2340879	2/10/2023	FGL Enviromental
BR Dom	3.20	578	330	-	3.20	-	-	-	-	-	-	-	VI 2340879	2/10/2023	FGL Enviromental
Wasco Way	-	-	-	-	-	-	-	-	-	-	-	-	Used Canal		
D1	2.30	434	250	-	2.30	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
D2	1.00	228	120	-	1.00	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
D3	2.90	365	200	-	4.30	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
D4	7.00	743	480	-	7.00	-	-	-	-	-	-	-	VI 2344022	6/30/2023	FGL Enviromental
D5	8.50	832	580	-	8.50	-	-	-	-	-	-	-	VI 2344022	6/30/2023	FGL Enviromental
BR 31 (Bussell)	6.40	656	400	-	6.40	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
G-1	4.20	526	310	-	4.20	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
H-1	6.80	624	370	-	6.80	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
H-2 (Old)	-	-	-	-	-	-	-	-	-	-	-	-	Non-Op		
H-2 (New)	8.60	745	460	-	8.60	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
R-1	-	-	-	-	-	-	-	-	-	-	-	-	Used Canal		
R-2	-	-	-	-	-	-	-	-	-	-	-	-	Used Canal		
H-3	0.70	345	200	-	0.70	-	-	-	-	-	-	-	VI 2344461	7/11/2023	FGL Enviromental
Canal	0.01	320	-	-	-	14.00	2.30	49.00	0.01	0.01	6.70	37.00	2307664-05	10/3/2023	Other

Detectable Limits

Dellavalle	*0.01*	*1*	*10*	*0.2*	*NR*	*0.1*	*0.1*	*0.15*	*3*	*0.9*	*0.03*	*0.03*
FGL Enviromental	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Valley Tech	*0.1*	*1*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*

Soil Analysis (Winter)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
D1	-	-	-	-	-	-			-
D2	-	-	-	-	-	-			-
D3	-	-	-	-	-	-			-
D4	-	-	-	-	-	-			-
D5E/W	-	-	-	-	-	-			-
D6	-	-	-	-	-	-			-
D7	-	-	-	-	-	-			-
D8	-	-	-	-	-	-			-
D9N	-	-	-	-	-	-			-
D9S	-	-	-	-	-	-			-
D10	-	-	-	-	-	-			-
D11	-	-	-	-	-	-			-
D12	-	-	-	-	-	-			-
D13N	-	-	-	-	-	-			-
D13S-E	-	-	-	-	-	-			-

Detectable Limits						
Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Soil Analysis (Winter)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
GC1	-	-	-	-	-	-			-
GC2	-	-	-	-	-	-			-
GC3W	4.0	16.20	15.20	356.00	0.61	0.84	06-30S56200	06/30/23	Valley Tech
GC3E	42.8	37.70	89.00	2,850.00	3.44	2.10	06-09S53396	06/09/23	Valley Tech
H1	-	-	-	-	-	-			-
H2	-	-	-	-	-	-			-
H3	-	-	-	-	-	-			-
H4	-	-	-	-	-	-			-
H5N	-	-	-	-	-	-			-
RS1	-	-	-	-	-	-			-
RS2	-	-	-	-	-	-			-
RS4W	-	-	-	-	-	-			-
29-Wasco	-	-	-	-	-	-			-
30-Wasco	-	-	-	-	-	-			-
31-Bussell	-	-	-	-	-	-			-

Detectable Limits						
Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Soil Analysis (Winter)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
D13S-W	-	-	-	-	-	-			-

Detectable Limits						
Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Soil Analysis (Summer)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
D1	-	-	-	-	-	-			-
D2	9.8	5.30	1.59	1,080.00	1.97	29.20	06-30S56200	06/30/23	Valley Tech
D3	-	-	-	-	-	-			-
D4	-	-	-	-	-	-			-
D5E/W	-	-	-	-	-	-			-
D6	-	-	-	-	-	-			-
D7	-	-	-	-	-	-			-
D8	-	-	-	-	-	-			-
D9N	-	-	-	-	-	-			-
D9S	-	-	-	-	-	-			-
D10	-	-	-	-	-	-			-
D11	26.50	11.50	0.69	814.00	3.95	23.20	06-09S53395	06/09/23	Valley Tech
D12	-	-	-	-	-	-			-
D13N	-	-	-	-	-	-			-
D13S-E	-	-	-	-	-	-			-

Detectable Limits						
Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Soil Analysis (Summer)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
GC1	-	-	-	-	-	-			-
GC2	-	-	-	-	-	-			-
GC3W	-	-	-	-	-	-			-
GC3E	-	-	-	-	-	-			-
H1	-	-	-	-	-	-			-
H2	-	-	-	-	-	-			-
H3	-	-	-	-	-	-			-
H4	-	-	-	-	-	-			-
H5N	-	-	-	-	-	-			-
RS1	-	-	-	-	-	-			-
RS2	-	-	-	-	-	-			-
RS4W	-	-	-	-	-	-			-
29-Wasco	-	-	-	-	-	-			-
30-Wasco	-	-	-	-	-	-			-
31-Bussell	-	-	-	-	-	-			-

Detectable Limits						
Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Soil Analysis (Summer)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
D13S-W	-	-	-	-	-	-			-

Detectable Limits						
Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Nutrient Import & Export

Nutrient Export-Did you sell, give away or otherwise remove slurry, process water or dry manure from your property?

___ No

X Yes, Manifest attached (Attachment D)

Total Dry Manure Exported 7,946

Nutrient Import

No Dry manure nutient imports entered

No Process wastewater nutrient imports entered

No Commerical or other nutrient imports entered

Total Process Water Exported

Field Name	Type of Manure Applied	As Is / Dry Weight	Source

Process Water & Manure Analysis

Process Water															
Quarters:	NH4N (mg/L)	TKN (mg/L)	TP (mg/L)	TK (mg/L)	NO3N (mg/L)	NH3N (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	CO3 (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	CL (mg/L)	EC (ds/m)	TDS (mg/L)
1	543.0	804.0	103.0	1,250.0	1.0	-	-	-	-	-	-	-	-	12	7,960
2	702.0	761.0	92.4	1,290.0	1.0	-	-	-	-	-	-	-	-	13	8,840
3	297.0	309.0	47.1	473.0	1.0	-	0.0	67.2	158.0	0.0	39.9	106.0	10.2	7	4,360
4	528.0	533.0	32.2	819.0	1.0	-	-	-	-	-	-	-	-	-	6,460
Detectable Limits															
Valley Tech	2.0	5.0	0.1	0.2										0.10	10
Dellavalle	0.2	0.7	0.02	0.2	0.01		0.05	0.4	0.10	0.9	3	0.01	0.03	0.001	10

				Inorg N	Org N	P2O5	K2O
Qtr	Sample #:	Sample Date:	Source	lbs / Ac In			
1	3-9H44128	3/9/2023	Valley Tech	123.3	59.2	53.5	341.3
2	5-12L49737	5/12/2023	Valley Tech	159.3	13.4	48.0	352.2
3	8-15L61712	8/15/2023	Valley Tech	67.5	2.7	24.5	129.1
4	10-3L67661	10/3/2023	Valley Tech	119.9	1.1	16.7	223.6

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type
Manure	5-12M49746	5/12/2023	Dry Weight	Valley Tech	Corral Solids
Manure	10-3M67652	10/3/2023	Dry Weight	Valley Tech	Corral Solids

Dry Manure: (As Recv'd)	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	1.26	0.45	2.24	-	-	-	-	-	-	-	33.20
Corral	0.94	0.41	2.31	1.77	0.50	0.39	0.38	1.25	-	52.90	28.60
Detectable Limits											
Valley Tech	0.01%	0.02%	0.02%								
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%	0.001%	0.001%	0.000%		0.001%	0.001%

Nutrient Applications

Field Name/Number: D1 **Acres:** 55.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/4/18	W. Planting	-	-	-	-	-	-	-	-	-	-		-
4/19/23	D1	-	-	-	5.30	-	2.8	-	-	180	-		-
5/18/23	D1	-	-	-	5.13	-	2.7	-	-	174	-		-
6/15/23	D1	-	-	-	5.52	-	2.9	-	-	188	-		-
6/28/23	D1	-	-	-	5.39	-	2.8	-	-	183	-		-
7/14/23	D1	-	-	-	5.26	-	2.7	-	-	179	-		-
8/14/23	D1	-	-	-	5.48	-	2.9	-	-	186	-		-
8/26/23	D1	-	-	-	5.43	-	2.8	-	-	185	-		-
10/1/23	W. Harvest	-	-	-	-	-	(298.2)	(26.6)	(178.4)	-	10.10		9.71
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	37.51	0.00	(279)	(27)	(178)	1,276	10.10	0	9.71

Dry Weight
As Received

Field Name/Number: D1 **Acres:** 55

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	19.6	0.0	0.0	1276.0
Nutrients Removed at Harvest	-298.2	-26.6	-178.4	0.0
Nutrient Balance	-278.6	-26.6	-178.4	1276.0

Winter Nitrogen Crop App / Use Ratio: 0.09 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: D1 **Acres:** 55

Winter Crop **Alfalfa, Green Chop**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		37.51	Ac In /Ac	19.6		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/4/18					
W. Harvest	10/1/23	9.7	T/Ac	(298.2)	(60.9)	(214.1)

Summer Crop **Alfalfa, Green Chop**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	0		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: D2 **Acres:** 68.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/10/22	W. Manure App.	10.00	-	-	-	-	100.5	90.8	447.6	-	-		-
10/17/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/11/22	D1	-	-	-	5.15	-	2.7	-	-	175	-		-
2/13/23	D1	-	-	-	5.32	-	2.8	-	-	181	-		-
2/27/23	W. Harvest	-	-	-	-	-	(91.1)	(17.6)	(175.9)	-	10.10		7.56
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/30/23	S. Comm Fert App.	-	-	90	-	-	90.0	-	-	-	-		-
6/28/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/18/23	D1	-	-	-	6.08	-	3.2	-	-	207	-		-
7/30/23	D1	-	-	-	6.29	-	3.3	-	-	214	-		-
8/8/23	D1	-	-	-	6.18	-	3.2	-	-	210	-		-
8/18/23	D1	-	-	-	5.54	-	2.9	-	-	188	-		-
8/18/23	Process Water	-	-	-	-	1.26	61.9	13.4	135.0	1,244	-		-
8/29/23	D1	-	-	-	6.22	-	3.2	-	-	212	-		-
10/12/23	S. Harvest	-	-	-	-	-	(208.1)	(46.6)	(158.2)	-	-		22.81
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.0		90	40.78	1.26	(26)	40	248	2,631	10.10	0	30.37

Field Name/Number: D2 **Acres:** 68.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	273.7	45.5	483.6	2631.4
Nutrients Removed at Harvest	-299.3	-28.0	-277.3	0.0
Nutrient Balance	-25.6	17.5	206.3	2631.4

Winter Nitrogen Crop App / Use Ratio: 1.24 **Summer Nitrogen Crop App / Use Ratio:** 1.27

Field Name/Number: D2 **Acres:** 68

Winter Crop **Sudangrass Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		10.0	T/Ac	100.5	208.0	537.1
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		10.5	Ac In /Ac	5.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/17/22					
W. Harvest	2/27/23	7.6	T/Ac	(91.1)	(40.4)	(211.1)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		90.0	lbs/Ac	90.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	1.3	Ac In /Ac	61.9	30.8	162.0
	Q4	-	Ac In /Ac	-	-	-
Well Water		30.3	Ac In /Ac	105.8		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/28/23					
S. Harvest	10/12/23	22.8	T/Ac	(208.1)	(106.8)	(189.8)

Nutrient Applications

Field Name/Number: D3 **Acres:** 59.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/17/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/19/22	D2	-	-	-	5.06	-	1.1	-	-	83	-		-
11/19/22	Process Water	-	-	-	-	1.26	161.4	29.5	358.1	2,281	-		-
1/16/23	D2	-	-	-	6.18	-	1.4	-	-	101	-		-
4/7/23	D2	-	-	-	6.03	-	1.4	-	-	98	-		-
5/18/23	W. Harvest	-	-	-	-	-	(166.4)	(34.2)	(233.7)	-	10.10		19.45
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/29/23	S. Comm Fert App.	-	-	90	-	-	90.0	-	-	-	-		-
6/4/23	D2	-	-	-	6.10	-	1.4	-	-	100	-		-
6/25/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/15/23	D2	-	-	-	5.02	-	1.1	-	-	82	-		-
7/15/23	Process Water	-	-	-	-	1.25	61.7	13.4	134.5	1,240	-		-
7/29/23	D2	-	-	-	6.22	-	1.4	-	-	101	-		-
8/11/23	D2	-	-	-	6.33	-	1.4	-	-	103	-		-
8/21/23	D2	-	-	-	5.09	-	1.2	-	-	83	-		-
8/21/23	Process Water	-	-	-	-	1.27	62.6	13.6	136.5	1,258	-		-
9/3/23	D2	-	-	-	6.18	-	1.4	-	-	101	-		-
10/5/23	S. Harvest	-	-	-	-	-	(261.7)	(50.8)	(175.8)	-	-		26.90
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		90	52.20	3.79	(40)	(28)	220	5,631	10.10	0	46.35

Field Name/Number: D3 **Acres:** 59.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	387.6	24.7	522.2	5631.2
Nutrients Removed at Harvest	-428.1	-37.1	-339.9	0.0
Nutrient Balance	-40.5	-12.4	182.4	5631.2

Winter Nitrogen Crop App / Use Ratio: 1.04 **Summer Nitrogen Crop App / Use Ratio:** 1.22

Field Name/Number: D3 **Acres:** 59

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.3	Ac In /Ac	161.4	67.6	429.7
	Q2	-	Ac In /Ac	-	-	-
Well Water		17.3	Ac In /Ac	3.9		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/17/22					
W. Harvest	5/18/23	19.5	T/Ac	(166.4)	(78.3)	(280.4)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		90.0	lbs/Ac	90.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	2.5	Ac In /Ac	124.3	61.8	325.2
	Q4	-	Ac In /Ac	-	-	-
Well Water		34.9	Ac In /Ac	97.9		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/25/23					
S. Harvest	10/5/23	26.9	T/Ac	(261.7)	(116.3)	(210.9)

Nutrient Applications

Field Name/Number: D4 **Acres:** 122.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
10/27/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/31/22	D5	-	-	-	6.18	-	11.9	-	-	487	-		-
12/15/22	D2	-	-	-	6.34	-	1.4	-	-	103	-		-
2/20/23	D2	-	-	-	5.52	-	1.3	-	-	90	-		-
2/20/23	Process Water	-	-	-	-	1.38	176.4	32.2	391.3	2,492	-		-
4/11/23	D2	-	-	-	5.60	-	1.3	-	-	91	-		-
4/11/23	Process Water	-	-	-	-	1.40	178.7	29.3	409.1	2,804	-		-
5/17/23	W. Harvest	-	-	-	-	-	(402.8)	(84.8)	(388.6)	-	10.10		27.39
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
5/20/23	S. Manure App.	10.25	-	-	-	-	77.3	83.4	474.0	-	-		-
5/25/23	D2	-	-	-	6.16	-	1.4	-	-	101	-		-
6/14/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/5/23	D2	-	-	-	5.43	-	1.2	-	-	89	-		-
7/5/23	Process Water	-	-	-	-	1.36	66.8	14.5	145.6	1,342	-		-
7/17/23	D2	-	-	-	6.07	-	1.4	-	-	99	-		-
7/23/23	D2	-	-	-	6.14	-	1.4	-	-	100	-		-
8/3/23	D2	-	-	-	6.32	-	1.4	-	-	103	-		-
8/14/23	D2	-	-	-	6.25	-	1.4	-	-	102	-		-
8/24/23	D2	-	-	-	5.38	-	1.2	-	-	88	-		-
8/24/23	Process Water	-	-	-	-	1.34	171.8	14.4	144.2	1,329	-		-
10/2/23	S. Harvest	-	-	-	-	-	(274.3)	(56.3)	(286.6)	-	-		24.56
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.2		0	65.37	5.48	19	33	889	9,421	10.10	0	51.94

Field Name/Number: D4 **Acres:** 122.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	696.3	75.8	1298.5	9420.6
Nutrients Removed at Harvest	-677.1	-61.6	-560.5	0.0
Nutrient Balance	19.2	14.3	737.9	9420.6

Winter Nitrogen Crop App / Use Ratio: 0.94 **Summer Nitrogen Crop App / Use Ratio:** 1.21

Field Name/Number: D4 **Acres:** 122

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.4	Ac In /Ac	176.4	73.8	469.5
	Q2	1.4	Ac In /Ac	178.7	67.1	490.9
Well Water		23.6	Ac In /Ac	15.9		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/27/22					
W. Harvest	5/17/23	27.4	T/Ac	(402.8)	(194.2)	(466.3)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		10.2	T/Ac	77.3	191.0	568.9
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	2.7	Ac In /Ac	238.6	66.1	347.8
	Q4	-	Ac In /Ac	-	-	-
Well Water		41.7	Ac In /Ac	9.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/14/23					
S. Harvest	10/2/23	24.6	T/Ac	(274.3)	(128.8)	(343.9)

Nutrient Applications

Field Name/Number: D5E/W

Acres: 79.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
10/28/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/5/22	D4	-	-	-	5.03	-	8.0	-	-	329	-		-
11/5/22	Process Water	-	-	-	-	1.05	134.0	24.5	297.2	1,892	-		-
1/14/23	D5	-	-	-	5.11	-	9.8	-	-	403	-		-
1/14/23	Process Water	-	-	-	-	1.16	148.3	27.1	328.9	2,094	-		-
2/28/23	D5	-	-	-	6.15	-	11.9	-	-	485	-		-
4/16/23	D5	-	-	-	6.31	-	12.1	-	-	498	-		-
5/18/23	W. Harvest	-	-	-	-	-	(249.3)	(64.8)	(285.9)	-	10.10		21.04
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
5/25/23	S. Manure App.	12.66	-	-	-	-	95.4	103.0	585.7	-	-		-
6/4/23	G-1	-	-	-	6.38	-	6.1	-	-	269	-		-
6/21/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/11/23	D2	-	-	-	5.29	-	1.2	-	-	86	-		-
7/11/23	Process Water	-	-	-	-	1.32	65.0	14.1	141.7	1,306	-		-
7/25/23	D4	-	-	-	6.01	-	9.5	-	-	392	-		-
8/6/23	D4	-	-	-	6.21	-	9.9	-	-	405	-		-
8/18/23	D4	-	-	-	6.11	-	9.7	-	-	399	-		-
9/2/23	D4	-	-	-	6.07	-	9.6	-	-	397	-		-
10/8/23	S. Harvest	-	-	-	-	-	(190.9)	(40.1)	(221.4)	-	-		22.59
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		12.7		0	58.66	3.53	90	64	846	8,956	10.10	0	43.63

Field Name/Number: D5E/W **Acres:** 79.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	530.5	73.6	1123.4	8956.5
Nutrients Removed at Harvest	-440.2	-45.8	-421.1	0.0
Nutrient Balance	90.3	27.8	702.4	8956.5

Winter Nitrogen Crop App / Use Ratio: 1.33 **Summer Nitrogen Crop App / Use Ratio:** 1.12

Field Name/Number: D5E/W **Acres:** 79

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	2.2	Ac In /Ac	282.2	118.1	751.2
	Q2	-	Ac In /Ac	-	-	-
Well Water		22.6	Ac In /Ac	41.8		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/28/22					
W. Harvest	5/18/23	21.0	T/Ac	(249.3)	(148.4)	(343.0)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		12.7	T/Ac	95.4	235.9	702.8
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	1.3	Ac In /Ac	65.0	32.3	170.0
	Q4	-	Ac In /Ac	-	-	-
Well Water		36.1	Ac In /Ac	46.0		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/21/23					
S. Harvest	10/8/23	22.6	T/Ac	(190.9)	(91.8)	(265.7)

Nutrient Applications

Field Name/Number: D6 **Acres:** 75.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/4/22	D3	-	-	-	5.31	-	3.5	-	-	145	-		-
11/4/22	Process Water	-	-	-	-	1.21	154.3	28.2	342.2	2,179	-		-
11/29/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
12/15/22	D3	-	-	-	6.16	-	4.0	-	-	168	-		-
1/10/23	D5	-	-	-	5.18	-	10.0	-	-	409	-		-
1/10/23	Process Water	-	-	-	-	1.18	150.5	27.5	333.9	2,126	-		-
4/16/23	D4	-	-	-	5.30	-	8.4	-	-	346	-		-
4/16/23	Process Water	-	-	-	-	1.10	141.1	23.1	323.0	2,214	-		-
5/9/23	W. Harvest	-	-	-	-	-	(350.3)	(61.7)	(423.0)	-	10.10		27.82
	-	-	-	-	-	-	-	-	-	-	-		-
7/25/23	S. Comm Fert App.	-	-	90	-	-	90.0	-	-	-	-		-
5/19/23	D4	-	-	-	6.26	-	9.9	-	-	409	-		-
6/17/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/12/23	D4	-	-	-	5.13	-	8.1	-	-	335	-		-
7/12/23	Process Water	-	-	-	-	1.07	52.5	11.4	114.5	1,055	-		-
7/25/23	D4	-	-	-	6.04	-	9.6	-	-	395	-		-
8/4/23	D4	-	-	-	6.19	-	9.8	-	-	404	-		-
8/13/23	D4	-	-	-	6.36	-	10.1	-	-	416	-		-
8/25/23	D4	-	-	-	6.29	-	10.0	-	-	411	-		-
9/2/23	D4	-	-	-	6.12	-	9.7	-	-	399	-		-
10/5/23	S. Harvest	-	-	-	-	-	(241.2)	(34.7)	(254.4)	-	-		23.60
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		90	64.34	4.56	90	(6)	436	11,410	10.10	0	51.42

Field Name/Number: D6 **Acres:** 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	681.7	39.4	924.4	11410.4
Nutrients Removed at Harvest	-591.5	-42.1	-562.3	0.0
Nutrient Balance	90.1	-2.7	362.1	11410.4

Winter Nitrogen Crop App / Use Ratio: 1.36 **Summer Nitrogen Crop App / Use Ratio:** 1.27

Field Name/Number: D6 **Acres:** 75

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	2.4	Ac In /Ac	304.8	127.6	811.3
	Q2	1.1	Ac In /Ac	141.1	53.0	387.6
Well Water		16.6	Ac In /Ac	22.4		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/29/22					
W. Harvest	5/9/23	27.8	T/Ac	(350.3)	(141.3)	(507.6)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		90.0	lbs/Ac	90.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	1.1	Ac In /Ac	52.5	26.1	137.4
	Q4	-	Ac In /Ac	-	-	-
Well Water		42.4	Ac In /Ac	157.2		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/17/23					
S. Harvest	10/5/23	23.6	T/Ac	(241.2)	(79.4)	(305.3)

Nutrient Applications

Field Name/Number: D7 **Acres:** 77.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
11/10/22	W. Manure App.	10.00	-	-	-	-	100.5	90.8	447.6	-	-		-
11/25/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/26/22	D3	-	-	-	5.21	-	3.4	-	-	142	-		-
11/26/22	Process Water	-	-	-	-	1.18	151.2	27.6	335.4	2,136	-		-
2/20/23	D4	-	-	-	6.20	-	9.8	-	-	405	-		-
4/13/23	D5	-	-	-	6.15	-	11.9	-	-	486	-		-
5/22/23	W. Harvest	-	-	-	-	-	(297.1)	(61.6)	(338.2)	-	10.10		21.47
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
8/3/23	S. Comm Fert App.	-	-	100	-	-	100.0	-	-	-	-		-
6/5/23	D3	-	-	-	6.31	-	4.1	-	-	172	-		-
6/26/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/22/23	D3	-	-	-	6.09	-	4.0	-	-	166	-		-
8/3/23	D3	-	-	-	6.34	-	4.2	-	-	173	-		-
8/13/23	D3	-	-	-	6.22	-	4.1	-	-	169	-		-
8/28/23	D3	-	-	-	6.15	-	4.0	-	-	167	-		-
9/12/23	D3	-	-	-	6.28	-	4.1	-	-	171	-		-
10/8/23	S. Harvest	-	-	-	-	-	(189.5)	(37.3)	(197.2)	-	-		23.39
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.0		100	54.96	1.18	(85)	20	247	4,186	10.10	0	44.86

Field Name/Number: D7 **Acres:** 77.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	401.4	51.7	649.9	4185.6
Nutrients Removed at Harvest	-486.6	-43.2	-444.5	0.0
Nutrient Balance	-85.2	8.5	205.4	4185.6

Winter Nitrogen Crop App / Use Ratio: 0.96 **Summer Nitrogen Crop App / Use Ratio:** 1.22

Field Name/Number: D7 **Acres:** 77

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		10.0	T/Ac	100.5	208.0	537.1
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.2	Ac In /Ac	151.2	63.3	402.5
	Q2	-	Ac In /Ac	-	-	-
Well Water		17.6	Ac In /Ac	25.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/25/22					
W. Harvest	5/22/23	21.5	T/Ac	(297.1)	(141.2)	(405.9)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		100.0	lbs/Ac	100.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		37.4	Ac In /Ac	124.6		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/26/23					
S. Harvest	10/8/23	23.4	T/Ac	(189.5)	(85.4)	(236.7)

Nutrient Applications

Field Name/Number: D8 **Acres:** 75.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
10/29/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/31/22	D4	-	-	-	5.34	-	8.5	-	-	349	-		-
10/31/22	Process Water	-	-	-	-	1.11	142.1	26.0	315.1	2,007	-		-
12/10/22	D3	-	-	-	6.16	-	4.0	-	-	168	-		-
1/4/23	D5	-	-	-	6.29	-	12.1	-	-	496	-		-
4/13/23	D4	-	-	-	6.54	-	10.4	-	-	427	-		-
5/18/23	W. Harvest	-	-	-	-	-	(203.1)	(26.1)	(207.5)	-	10.10		22.60
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/28/23	S. Comm Fert App.	-	-	120	-	-	120.0	-	-	-	-		-
5/27/23	D3	-	-	-	6.19	-	4.1	-	-	168	-		-
6/19/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/13/23	D3	-	-	-	6.32	-	4.2	-	-	172	-		-
7/28/23	D3	-	-	-	6.25	-	4.1	-	-	170	-		-
8/8/23	D3	-	-	-	6.16	-	4.0	-	-	168	-		-
8/25/23	D3	-	-	-	6.29	-	4.1	-	-	171	-		-
9/6/23	D3	-	-	-	6.22	-	4.1	-	-	169	-		-
10/17/23	S. Harvest	-	-	-	-	-	(240.7)	(42.3)	(194.8)	-	-		23.20
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		120	61.74	1.11	(122)	(42)	(87)	4,464	10.10	0	45.80

Field Name/Number: D8 **Acres:** 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	321.7	11.3	261.6	4464.3
Nutrients Removed at Harvest	-443.8	-29.8	-333.9	0.0
Nutrient Balance	-122.2	-18.5	-72.3	4464.3

Winter Nitrogen Crop App / Use Ratio: 0.91 **Summer Nitrogen Crop App / Use Ratio:** 1.13

Field Name/Number: D8 **Acres:** 75

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.1	Ac In /Ac	142.1	59.5	378.1
	Q2	-	Ac In /Ac	-	-	-
Well Water		24.3	Ac In /Ac	35.0		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/29/22					
W. Harvest	5/18/23	22.6	T/Ac	(203.1)	(59.8)	(249.0)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		120.0	lbs/Ac	120.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		37.4	Ac In /Ac	144.6		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/19/23					
S. Harvest	10/17/23	23.2	T/Ac	(240.7)	(96.8)	(233.7)

Nutrient Applications

Field Name/Number: D9N **Acres:** 75.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/17/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/19/22	D3	-	-	-	5.18	-	3.4	-	-	141	-		-
11/19/22	Process Water	-	-	-	-	1.18	150.5	27.5	333.9	2,126	-		-
1/7/23	D5	-	-	-	5.12	-	9.9	-	-	404	-		-
1/7/23	Process Water	-	-	-	-	1.16	148.6	27.2	329.7	2,100	-		-
2/21/23	D5	-	-	-	6.16	-	11.9	-	-	486	-		-
4/10/23	D4	-	-	-	6.50	-	10.3	-	-	425	-		-
5/8/23	W. Harvest	-	-	-	-	-	(296.0)	(69.5)	(534.5)	-	10.10		27.75
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/8/23	S. Comm Fert App.	-	-	100	-	-	100.0	-	-	-	-		-
5/13/23	D3	-	-	-	6.25	-	4.1	-	-	170	-		-
5/30/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/22/23	D3	-	-	-	5.22	-	3.4	-	-	142	-		-
6/22/23	Process Water	-	-	-	-	1.19	58.3	24.8	346.7	2,376	-		-
7/8/23	D3	-	-	-	6.19	-	4.1	-	-	168	-		-
7/19/23	D3	-	-	-	6.32	-	4.2	-	-	172	-		-
7/28/23	D3	-	-	-	6.09	-	4.0	-	-	166	-		-
8/10/23	D3	-	-	-	6.22	-	4.1	-	-	169	-		-
8/18/23	D3	-	-	-	6.29	-	4.1	-	-	171	-		-
10/7/23	S. Harvest	-	-	-	-	-	(226.9)	(44.0)	(152.4)	-	-		23.32
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		100	65.54	3.53	#N/A	-	-	#N/A	10.10	0	51.07

Field Name/Number: D9N **Acres:** 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	520.9	34.7	838.7	9216.4
Nutrients Removed at Harvest	-522.9	-49.6	-570.2	0.0
Nutrient Balance	-2.0	-14.9	268.5	9216.4

Winter Nitrogen Crop App / Use Ratio: 1.15 **Summer Nitrogen Crop App / Use Ratio:** 1.29

Field Name/Number: D9N **Acres:** 75

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	2.3	Ac In /Ac	299.2	125.2	796.3
	Q2	-	Ac In /Ac	-	-	-
Well Water		23.0	Ac In /Ac	35.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/17/22					
W. Harvest	5/8/23	27.7	T/Ac	(296.0)	(159.2)	(641.4)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		100.0	lbs/Ac	100.0	-	-
Process Water	Q2	1.2	Ac In /Ac	58.3	56.9	416.1
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		42.6	Ac In /Ac	128.0		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	5/30/23					
S. Harvest	10/7/23	23.3	T/Ac	(226.9)	(100.8)	(182.9)

Nutrient Applications

Field Name/Number: D9S **Acres:** 75.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
10/28/18	W. Planting	-	-	-	-	-	-	-	-	-	-		-
12/4/22	D4	-	-	-	5.30	-	8.4	-	-	346	-		-
1/14/23	D4	-	-	-	5.48	-	8.7	-	-	358	-		-
2/8/23	D4	-	-	-	5.34	-	8.5	-	-	349	-		-
3/17/23	D4	-	-	-	5.41	-	8.6	-	-	353	-		-
3/27/23	W. Harvest	-	-	-	-	-	(247.8)	(21.5)	(153.7)	-	10.10		7.92
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
6/1/23	S. Comm Fert App.	-	-	100	-	-	100.0	-	-	-	-		-
3/31/23	D3	-	-	-	6.12	-	4.0	-	-	167	-		-
4/21/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
5/20/23	D3	-	-	-	5.99	-	3.9	-	-	163	-		-
6/1/23	D3	-	-	-	6.16	-	4.0	-	-	168	-		-
6/19/23	D3	-	-	-	5.35	-	3.5	-	-	145	-		-
6/19/23	Process Water	-	-	-	-	1.22	59.8	25.5	355.3	2,435	-		-
6/28/23	D3	-	-	-	6.19	-	4.1	-	-	168	-		-
7/6/23	D3	-	-	-	6.09	-	4.0	-	-	166	-		-
7/22/23	D3	-	-	-	6.06	-	4.0	-	-	165	-		-
8/7/23	S. Harvest	-	-	-	-	-	(242.9)	(50.9)	(195.9)	-	-		26.05
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		100	63.49	1.22	(269)	(47)	6	4,983	10.10	0	33.97

Field Name/Number: D9S **Acres:** 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	221.5	11.1	295.0	4982.8
Nutrients Removed at Harvest	-490.7	-31.6	-290.2	0.0
Nutrient Balance	-269.2	-20.5	4.8	4982.8

Winter Nitrogen Crop App / Use Ratio: 0.17 **Summer Nitrogen Crop App / Use Ratio:** 1.21

Field Name/Number: D9S **Acres:** 75

Winter Crop **Alfalfa, Green Chop**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		21.5	Ac In /Ac	34.2		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/28/18					
W. Harvest	3/27/23	7.9	T/Ac	(247.8)	(49.1)	(184.4)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		100.0	lbs/Ac	100.0	-	-
Process Water	Q2	1.2	Ac In /Ac	59.8	58.3	426.4
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		42.0	Ac In /Ac	127.6		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	4/21/23					
S. Harvest	8/7/23	26.0	T/Ac	(242.9)	(116.6)	(235.1)

Nutrient Applications

Field Name/Number: D10 **Acres:** 20.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
11/10/22	W. Manure App.	10.00	-	-	-	-	100.5	90.8	447.6	-	-		-
11/18/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/21/22	G-1	-	-	-	6.19	-	5.9	-	-	261	-		-
1/18/23	G-1	-	-	-	5.26	-	5.0	-	-	222	-		-
1/18/23	Process Water	-	-	-	-	0.94	119.9	21.9	266.1	1,694	-		-
2/17/23	G-1	-	-	-	6.50	-	6.2	-	-	274	-		-
4/17/23	G-1	-	-	-	6.34	-	6.0	-	-	267	-		-
5/24/23	W. Harvest	-	-	-	-	-	(194.3)	(43.2)	(245.5)	-	10.10		16.49
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
8/16/23	S. Comm Fert App.	-	-	110	-	-	110.0	-	-	-	-		-
6/13/23	G-1	-	-	-	6.65	-	6.3	-	-	280	-		-
6/26/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/22/23	G-1	-	-	-	6.03	-	5.7	-	-	254	-		-
8/6/23	G-1	-	-	-	5.88	-	5.6	-	-	248	-		-
8/6/23	Process Water	-	-	-	-	1.05	51.6	11.2	112.5	1,037	-		-
8/16/23	G-1	-	-	-	6.80	-	6.5	-	-	287	-		-
8/26/23	G-1	-	-	-	6.34	-	6.0	-	-	267	-		-
9/6/23	G-1	-	-	-	6.96	-	6.6	-	-	294	-		-
10/17/23	S. Harvest	-	-	-	-	-	(301.2)	(49.8)	(173.3)	-	-		24.40
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.0		110	62.94	1.99	(53)	31	407	5,386	10.10	0	40.89

Field Name/Number: D10 **Acres:** 20.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	442.0	54.1	685.8	5386.4
Nutrients Removed at Harvest	-495.4	-40.6	-347.7	0.0
Nutrient Balance	-53.5	13.5	338.1	5386.4

Winter Nitrogen Crop App / Use Ratio: 1.29 **Summer Nitrogen Crop App / Use Ratio:** 1.05

Field Name/Number: D10 **Acres:** 20

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		10.0	T/Ac	100.5	208.0	537.1
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	0.9	Ac In /Ac	119.9	50.2	319.3
	Q2	-	Ac In /Ac	-	-	-
Well Water		24.3	Ac In /Ac	23.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/18/22					
W. Harvest	5/24/23	16.5	T/Ac	(194.3)	(98.9)	(294.6)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		110.0	lbs/Ac	110.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	1.0	Ac In /Ac	51.6	25.7	135.0
	Q4	-	Ac In /Ac	-	-	-
Well Water		38.7	Ac In /Ac	146.8		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/26/23					
S. Harvest	10/17/23	24.4	T/Ac	(301.2)	(114.1)	(208.0)

Nutrient Applications

Field Name/Number: D11 **Acres:** 10.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
	W. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	S. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	0.00	0.00	-	-	-	-	0.00	0	0.00

Field Name/Number: D11 **Acres:** 10.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	0.0	0.0	0.0	0.0
Nutrient Balance	0.0	0.0	0.0	0.0

Winter Nitrogen Crop App / Use Ratio: #N/A **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: D11 **Acres:** 10

Winter Crop **W. Fallow**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	#N/A					
W. Harvest	1/1/2000	#N/A	T/Ac	#N/A	#N/A	#N/A

Summer Crop **S. Fallow**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	#N/A					
S. Harvest	-	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: D12 **Acres:** 5.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
	W. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	S. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	0.00	0.00	-	-	-	-	0.00	0	0.00

Field Name/Number: D12 **Acres:** 5.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	0.0	0.0	0.0	0.0
Nutrient Balance	0.0	0.0	0.0	0.0

Winter Nitrogen Crop App / Use Ratio: #N/A **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: D12 **Acres:** 5

Winter Crop **W. Fallow**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	#N/A					
W. Harvest	1/1/2000	#N/A	T/Ac	#N/A	#N/A	#N/A

Summer Crop **S. Fallow**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	#N/A					
S. Harvest	-	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: D13N

Acres: 144.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
	W. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	S. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	0.00	0.00	-	-	-	-	0.00	0	0.00

Field Name/Number: D13N **Acres:** 144.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	0.0	0.0	0.0	0.0
Nutrient Balance	0.0	0.0	0.0	0.0

Winter Nitrogen Crop App / Use Ratio: #N/A **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: D13N **Acres:** 144

Winter Crop **W. Fallow**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	#N/A					
W. Harvest	1/1/2000	#N/A	T/Ac	#N/A	#N/A	#N/A

Summer Crop **S. Fallow**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	#N/A					
S. Harvest	-	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: D13S-E

Acres: 75.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
	W. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
3/25/23	S. Manure App.	13.33	-	-	-	-	100.5	108.5	616.9	-	-		-
3/31/23	D1	-	-	-	6.38	-	3.3	-	-	217	-		-
4/20/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
5/19/23	D1	-	-	-	5.51	-	2.9	-	-	187	-		-
5/19/23	Process Water	-	-	-	-	1.25	61.6	26.2	366.1	2,509	-		-
6/1/23	D1	-	-	-	6.25	-	3.3	-	-	213	-		-
6/22/23	D1	-	-	-	6.35	-	3.3	-	-	216	-		-
7/9/23	D1	-	-	-	6.19	-	3.2	-	-	211	-		-
7/22/23	D1	-	-	-	6.32	-	3.3	-	-	215	-		-
8/3/23	S. Harvest	-	-	-	-	-	(171.1)	(37.9)	(166.9)	-	-		21.85
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		13.3		0	37.00	1.25	10	97	816	3,768	0.00	0	21.85

Field Name/Number: D13S-E **Acres:** 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	181.4	58.8	816.0	3767.6
Nutrients Removed at Harvest	-171.1	-16.5	-138.6	0.0
Nutrient Balance	10.3	42.3	677.4	3767.6

Winter Nitrogen Crop App / Use Ratio: #N/A **Summer Nitrogen Crop App / Use Ratio:** 1.10

Field Name/Number: D13S-E **Acres:** 75

Winter Crop **W. Fallow**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	#N/A					
W. Harvest	1/1/2000	#N/A	T/Ac	#N/A	#N/A	#N/A

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		13.3	T/Ac	100.5	248.5	740.3
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	1.3	Ac In /Ac	61.6	60.1	439.3
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		37.0	Ac In /Ac	19.3		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	4/20/23					
S. Harvest	8/3/23	21.9	T/Ac	(171.1)	(86.7)	(200.3)

Nutrient Applications

Field Name/Number: GC1 **Acres:** 38.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
10/26/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/30/22	G-1	-	-	-	5.29	-	5.0	-	-	223	-		-
10/30/22	Process Water	-	-	-	-	0.94	120.7	22.1	267.7	1,705	-		-
12/12/22	G-1	-	-	-	6.51	-	6.2	-	-	275	-		-
1/12/23	G-1	-	-	-	5.37	-	5.1	-	-	227	-		-
1/12/23	Process Water	-	-	-	-	0.96	122.5	22.4	271.8	1,731	-		-
4/18/23	G-1	-	-	-	6.27	-	6.0	-	-	264	-		-
5/20/23	W. Harvest	-	-	-	-	-	(291.7)	(55.9)	(279.7)	-	9.29		27.00
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/28/23	S. Comm Fert App.	-	-	110	-	-	110.0	-	-	-	-		-
5/27/23	G-1	-	-	-	6.67	-	6.4	-	-	282	-		-
6/17/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/8/23	G-1	-	-	-	6.35	-	6.0	-	-	268	-		-
7/28/23	G-1	-	-	-	6.51	-	6.2	-	-	275	-		-
8/9/23	G-1	-	-	-	6.59	-	6.3	-	-	278	-		-
8/19/23	G-1	-	-	-	6.43	-	6.1	-	-	271	-		-
8/31/23	G-1	-	-	-	6.76	-	6.4	-	-	285	-		-
10/5/23	S. Harvest	-	-	-	-	-	(232.7)	(46.1)	(136.4)	-	4.51		25.92
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		110	62.75	1.90	(111)	(58)	123	6,083	13.80	0	52.92

Dry Weight
As Received

Field Name/Number: GC1 **Acres:** 38

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	413.0	44.5	539.5	6082.8
Nutrients Removed at Harvest	-524.4	-102.1	-416.1	0.0
Nutrient Balance	-111.5	-57.6	123.4	6082.8

Winter Nitrogen Crop App / Use Ratio: 0.93 **Summer Nitrogen Crop App / Use Ratio:** 1.14

Field Name/Number: GC1 **Acres:** 38

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.9	Ac In /Ac	243.2	101.8	647.5
	Q2	-	Ac In /Ac	-	-	-
Well Water		23.44	Ac In /Ac	22.3		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/26/22					
W. Harvest	5/20/23	27.0	T/Ac	(291.7)	(128.1)	(335.7)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		110.0	lbs/Ac	110.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		39.3	Ac In /Ac	147.42628		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/17/23					
S. Harvest	10/5/23	25.9	T/Ac	(232.7)	(105.7)	(163.7)

Nutrient Applications

Field Name/Number: GC2 **Acres:** 38.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
10/26/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/1/22	G-1	-	-	-	5.21	-	5.0	-	-	220	-		-
11/1/22	Process Water	-	-	-	-	0.93	118.8	21.7	263.6	1,679	-		-
12/14/22	G-1	-	-	-	6.35	-	6.0	-	-	268	-		-
1/10/23	G-1	-	-	-	5.45	-	5.2	-	-	230	-		-
1/10/23	Process Water	-	-	-	-	0.97	124.4	22.7	275.9	1,757	-		-
4/20/23	G-1	-	-	-	6.67	-	6.4	-	-	282	-		-
5/20/23	W. Harvest	-	-	-	-	-	(258.5)	(58.3)	(280.4)	-	9.29		27.50
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/30/23	S. Comm Fert App.	-	-	100	-	-	100.0	-	-	-	-		-
6/1/23	Canal	-	-	-	6.40	-	0.0	-	-	-	-		-
6/17/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/12/23	Canal	-	-	-	6.05	-	0.0	-	-	-	-		-
7/30/23	Canal	-	-	-	6.74	-	0.0	-	-	-	-		-
8/11/23	Canal	-	-	-	6.51	-	0.0	-	-	-	-		-
8/21/23	Canal	-	-	-	6.28	-	0.0	-	-	-	-		-
9/2/23	Canal	-	-	-	6.63	-	0.0	-	-	-	-		-
10/3/23	S. Harvest	-	-	-	-	-	(180.4)	(40.3)	(119.2)	-	4.51		22.81
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		100	62.29	1.90	(73)	(54)	140	4,435	13.80	0	50.31

Field Name/Number: GC2 **Acres:** 38.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	365.9	19.4	447.9	4435.0
Nutrients Removed at Harvest	-438.9	-43.0	-331.6	0.0
Nutrient Balance	-73.0	-23.6	116.2	4435.0

Winter Nitrogen Crop App / Use Ratio: 1.06 **Summer Nitrogen Crop App / Use Ratio:** 1.15

Field Name/Number: GC2 **Acres:** 38

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.9	Ac In /Ac	243.2	101.8	647.5
	Q2	-	Ac In /Ac	-	-	-
Well Water		23.7	Ac In /Ac	22.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/26/22					
W. Harvest	5/20/23	27.5	T/Ac	(258.5)	(133.4)	(336.4)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		100.0	lbs/Ac	100.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	100.0		
Canal		38.6	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	6/17/23					
S. Harvest	10/3/23	22.8	T/Ac	(180.4)	(92.2)	(143.0)

Nutrient Applications

Field Name/Number: GC3W

Acres: 78.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
11/1/22	W. Manure App.	10.90	-	-	-	-	109.5	99.0	487.7	-	-		-
11/6/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/10/22	G-1	-	-	-	6.34	-	6.0	-	-	268	-		-
1/2/23	G-1	-	-	-	5.79	-	5.5	-	-	244	-		-
1/2/23	Process Water	-	-	-	-	1.03	132.1	24.1	293.0	1,866	-		-
4/7/23	G-1	-	-	-	6.38	-	6.1	-	-	269	-		-
5/8/23	W. Harvest	-	-	-	-	-	(288.8)	(74.9)	(342.3)	-	9.29		22.62
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/19/23	S. Comm Fert App.	-	-	125	-	-	125.0	-	-	-	-		-
6/4/23	G-1	-	-	-	6.54	-	6.2	-	-	276	-		-
6/24/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/19/23	G-1	-	-	-	6.42	-	6.1	-	-	271	-		-
8/4/23	G-1	-	-	-	5.87	-	5.6	-	-	248	-		-
8/4/23	Process Water	-	-	-	-	1.05	51.6	11.2	112.4	1,036	-		-
8/16/23	G-1	-	-	-	5.99	-	5.7	-	-	253	-		-
8/16/23	Process Water	-	-	-	-	1.07	52.6	11.4	114.6	1,057	-		-
8/24/23	G-1	-	-	-	5.95	-	5.7	-	-	251	-		-
8/24/23	Process Water	-	-	-	-	1.06	135.7	11.3	113.9	1,050	-		-
9/2/23	G-1	-	-	-	5.91	-	5.6	-	-	249	-		-
9/2/23	Process Water	-	-	-	-	1.06	134.8	11.3	113.1	1,043	-		-
10/1/23	S. Harvest	-	-	-	-	-	(770.6)	(73.8)	(536.6)	-	4.51		19.18
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.9		125	55.20	5.27	(266)	20	356	8,379	13.80	0	41.79

Field Name/Number: GC3W **Acres:** 78.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	793.7	73.5	1024.9	8379.2
Nutrients Removed at Harvest	-1059.4	-64.9	-729.6	0.0
Nutrient Balance	-265.7	8.6	295.3	8379.2

Winter Nitrogen Crop App / Use Ratio: 0.92 **Summer Nitrogen Crop App / Use Ratio:** 0.86

Field Name/Number: GC3W **Acres:** 78

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		10.9	T/Ac	109.5	226.7	585.3
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	1.0	Ac In /Ac	132.1	55.3	351.5
	Q2	-	Ac In /Ac	-	-	-
Well Water		18.5	Ac In /Ac	17.6		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/6/22					
W. Harvest	5/8/23	22.6	T/Ac	(288.8)	(171.5)	(410.8)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		125.0	lbs/Ac	125.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	4.2	Ac In /Ac	374.6	103.5	544.8
	Q4	-	Ac In /Ac	-	-	-
Well Water		36.7	Ac In /Ac	159.9		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/24/23					
S. Harvest	10/1/23	19.2	T/Ac	(770.6)	(168.9)	(643.9)

Nutrient Applications

Field Name/Number: GC3E

Acres: 76.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
	W. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/5/23	S. Comm Fert App.	-	-	90	-	-	90.0	-	-	-	-		-
5/13/23	Canal	-	-	-	6.69	-	0.0	-	-	-	-		-
5/31/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/24/23	Canal	-	-	-	6.51	-	0.0	-	-	-	-		-
7/5/23	Canal	-	-	-	6.63	-	0.0	-	-	-	-		-
7/15/23	Canal	-	-	-	6.40	-	0.0	-	-	-	-		-
7/30/23	Canal	-	-	-	6.28	-	0.0	-	-	-	-		-
8/13/23	Canal	-	-	-	6.57	-	0.0	-	-	-	-		-
8/23/23	Canal	-	-	-	6.45	-	0.0	-	-	-	-		-
10/5/23	S. Harvest	-	-	-	-	-	(160.1)	(44.9)	(149.7)	-	4.51		21.94
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		90	45.52	0.00	(70)	(45)	(150)	-	4.51	0	21.94

Field Name/Number: GC3E **Acres:** 76.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	90.1	0.0	0.0	0.0
Nutrients Removed at Harvest	-160.1	-19.6	-124.2	0.0
Nutrient Balance	-70.0	-19.6	-124.2	0.0

Winter Nitrogen Crop App / Use Ratio: #N/A **Summer Nitrogen Crop App / Use Ratio:** 1.17

Field Name/Number: GC3E **Acres:** 76

Winter Crop **W. Fallow**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	#N/A					
W. Harvest	1/1/2000	#N/A	T/Ac	#N/A	#N/A	#N/A

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		90.0	lbs/Ac	90.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	90.0		
Canal		45.5	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	5/31/23					
S. Harvest	10/5/23	21.9	T/Ac	(160.1)	(102.8)	(179.6)

Nutrient Applications

Field Name/Number: H1 **Acres:** 35.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/7/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/30/22	H-1	-	-	-	5.21	-	8.0	-	-	262	-		-
2/16/23	H-1	-	-	-	5.49	-	8.5	-	-	276	-		-
3/13/23	H-1	-	-	-	5.00	-	7.7	-	-	252	-		-
4/19/23	H-1	-	-	-	5.69	-	8.8	-	-	287	-		-
5/20/23	H-1	-	-	-	5.35	-	8.2	-	-	269	-		-
6/15/23	H-1	-	-	-	5.55	-	8.6	-	-	280	-		-
7/14/23	H-1	-	-	-	5.14	-	7.9	-	-	259	-		-
8/13/23	H-1	-	-	-	5.62	-	8.7	-	-	283	-		-
10/1/23	W. Harvest	-	-	-	-	-	(292.4)	(22.3)	(153.4)	-	9.29		8.66
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	43.05	0.00	(226)	(22)	(153)	2,167	9.29	0	8.66

Field Name/Number: H1 **Acres:** 35.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	66.4	0.0	0.0	2167.1
Nutrients Removed at Harvest	-292.4	-9.7	-127.4	0.0
Nutrient Balance	-226.1	-9.7	-127.4	2167.1

Winter Nitrogen Crop App / Use Ratio: 0.25 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: H1 **Acres:** 35

Winter Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		43.0	Ac In /Ac	66.4		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/7/22					
W. Harvest	10/1/23	8.7	T/Ac	(292.4)	(51.1)	(184.1)

Summer Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: H2

Acres: 37.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	W. Manure App.	5.41	-	-	-	-	54.3	49.1	241.9	-	-		-
10/22/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/28/22	H-2 (New)	-	-	-	6.56	-	12.8	-	-	410	-		-
11/30/22	H-2 (New)	-	-	-	6.13	-	11.9	-	-	383	-		-
2/16/23	H-2 (New)	-	-	-	6.34	-	12.4	-	-	397	-		-
4/26/23	W. Harvest	-	-	-	-	-	(96.1)	(19.0)	(57.0)	-	9.29		13.66
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/3/23	S. Manure App.	12.16	-	-	-	-	91.7	99.0	562.7	-	-		-
5/2/23	H-2 (New)	-	-	-	6.99	-	13.6	-	-	437	-		-
5/19/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/17/23	H-2 (New)	-	-	-	6.23	-	12.2	-	-	390	-		-
7/3/23	H-2 (New)	-	-	-	6.77	-	13.2	-	-	424	-		-
7/14/23	H-2 (New)	-	-	-	6.02	-	11.7	-	-	377	-		-
7/26/23	H-2 (New)	-	-	-	6.66	-	13.0	-	-	417	-		-
8/7/23	H-2 (New)	-	-	-	6.45	-	12.6	-	-	404	-		-
9/28/23	S. Harvest	-	-	-	-	-	(157.6)	(39.0)	(94.5)	-	4.51		21.56
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		17.6		0	58.15	0.00	6	90	653	3,639	13.80	0	35.22

Field Name/Number: H2 **Acres:** 37.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	259.4	64.6	667.9	3639.0
Nutrients Removed at Harvest	-253.7	-25.3	-125.8	0.0
Nutrient Balance	5.7	39.3	542.1	3639.0

Winter Nitrogen Crop App / Use Ratio: 1.02 **Summer Nitrogen Crop App / Use Ratio:** 1.11

Field Name/Number: H2 **Acres:** 37

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		5.4	T/Ac	54.3	112.5	290.3
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		19.0	Ac In /Ac	37.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/22/22					
W. Harvest	4/26/23	13.7	T/Ac	(96.1)	(43.5)	(68.4)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		12.2	T/Ac	91.7	226.7	675.3
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		39.1	Ac In /Ac	76.3		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	5/19/23					
S. Harvest	9/28/23	21.6	T/Ac	(157.6)	(89.3)	(113.4)

Nutrient Applications

Field Name/Number: H3 **Acres:** 24.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	W. Manure App.	8.33	-	-	-	-	83.7	75.7	373.0	-	-		-
10/21/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/31/22	H-2 (New)	-	-	-	6.79	-	13.2	-	-	425	-		-
12/4/22	H-2 (New)	-	-	-	6.46	-	12.6	-	-	404	-		-
2/18/23	H-2 (New)	-	-	-	6.63	-	12.9	-	-	415	-		-
4/26/23	W. Harvest	-	-	-	-	-	(130.8)	(22.5)	(70.0)	-	9.29		16.39
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
5/1/23	S. Manure App.	8.33	-	-	-	-	62.8	67.8	385.6	-	-		-
5/6/23	H-2 (New)	-	-	-	6.63	-	12.9	-	-	415	-		-
5/21/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/22/23	H-2 (New)	-	-	-	6.96	-	13.6	-	-	436	-		-
7/6/23	H-2 (New)	-	-	-	6.30	-	12.3	-	-	394	-		-
7/17/23	H-2 (New)	-	-	-	6.79	-	13.2	-	-	425	-		-
7/29/23	H-2 (New)	-	-	-	6.46	-	12.6	-	-	404	-		-
8/10/23	H-2 (New)	-	-	-	6.13	-	12.0	-	-	384	-		-
10/4/23	S. Harvest	-	-	-	-	-	(107.7)	(40.4)	(115.1)	-	4.51		21.12
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		16.7		0	59.15	0.00	23	81	573	3,702	13.80	0	37.51

Field Name/Number: H3 **Acres:** 24.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	261.9	62.6	629.7	3702.1
Nutrients Removed at Harvest	-238.5	-27.4	-153.7	0.0
Nutrient Balance	23.4	35.2	475.9	3702.1

Winter Nitrogen Crop App / Use Ratio: 0.99 **Summer Nitrogen Crop App / Use Ratio:** 1.36

Field Name/Number: H3 **Acres:** 24

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		8.3	T/Ac	83.7	173.4	447.6
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		19.9	Ac In /Ac	38.8		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/21/22					
W. Harvest	4/26/23	16.4	T/Ac	(130.8)	(51.4)	(84.0)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		8.3	T/Ac	62.8	155.3	462.7
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		39.3	Ac In /Ac	76.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	5/21/23					
S. Harvest	10/4/23	21.1	T/Ac	(107.7)	(92.5)	(138.2)

Nutrient Applications

Field Name/Number: H4 **Acres:** 60.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	W. Manure App.	5.83	-	-	-	-	58.6	53.0	261.1	-	-		-
10/22/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/2/22	H-2 (New)	-	-	-	6.03	-	11.8	-	-	377	-		-
12/13/22	H-2 (New)	-	-	-	6.23	-	12.1	-	-	390	-		-
2/20/23	H-2 (New)	-	-	-	5.97	-	11.6	-	-	373	-		-
4/11/23	H-2 (New)	-	-	-	6.36	-	12.4	-	-	398	-		-
4/27/23	W. Harvest	-	-	-	-	-	(110.2)	(19.8)	(84.2)	-	9.29		15.03
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
5/1/23	S. Manure App.	6.67	-	-	-	-	50.3	54.3	308.4	-	-		-
5/9/23	H-2 (New)	-	-	-	6.16	-	12.0	-	-	386	-		-
5/26/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/25/23	H-2 (New)	-	-	-	6.10	-	11.9	-	-	382	-		-
7/7/23	H-2 (New)	-	-	-	6.30	-	12.3	-	-	394	-		-
7/19/23	H-2 (New)	-	-	-	5.97	-	11.6	-	-	373	-		-
7/31/23	H-2 (New)	-	-	-	6.23	-	12.1	-	-	390	-		-
8/12/23	H-2 (New)	-	-	-	6.03	-	11.8	-	-	377	-		-
10/5/23	S. Harvest	-	-	-	-	-	(104.7)	(34.0)	(99.5)	-	4.51		20.02
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		12.5		0	61.37	0.00	14	53	386	3,841	13.80	0	35.05

Field Name/Number: H4 **Acres:** 60.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	228.5	46.8	472.8	3841.1
Nutrients Removed at Harvest	-215.0	-23.5	-152.5	0.0
Nutrient Balance	13.5	23.3	320.3	3841.1

Winter Nitrogen Crop App / Use Ratio: 1.03 **Summer Nitrogen Crop App / Use Ratio:** 1.23

Field Name/Number: H4 **Acres:** 60

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		5.8	T/Ac	58.6	121.4	313.3
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		24.6	Ac In /Ac	47.9		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/22/22					
W. Harvest	4/27/23	15.0	T/Ac	(110.2)	(45.4)	(101.1)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		6.7	T/Ac	50.3	124.3	370.1
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		36.8	Ac In /Ac	71.7		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	5/26/23					
S. Harvest	10/5/23	20.0	T/Ac	(104.7)	(77.9)	(119.4)

Nutrient Applications

Field Name/Number: H5N

Acres: 39.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	W. Manure App.	10.26	-	-	-	-	103.0	93.2	459.0	-	-		-
10/24/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/5/22	H-2 (New)	-	-	-	6.63	-	12.9	-	-	415	-		-
12/17/22	H-2 (New)	-	-	-	6.22	-	12.1	-	-	389	-		-
2/13/23	H-2 (New)	-	-	-	6.42	-	12.5	-	-	402	-		-
4/13/23	H-2 (New)	-	-	-	6.53	-	12.7	-	-	408	-		-
4/27/23	W. Harvest	-	-	-	-	-	(161.1)	(28.9)	(107.4)	-	9.29		23.15
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	S. Fallow	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.3		0	25.80	0.00	#N/A	-	-	#N/A	9.29	0	23.15

Field Name/Number: H5N **Acres:** 39.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	153.3	40.7	381.0	1614.5
Nutrients Removed at Harvest	-161.1	-12.6	-89.2	0.0
Nutrient Balance	-7.8	28.0	291.9	1614.5

Winter Nitrogen Crop App / Use Ratio: 1.00 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: H5N **Acres:** 39

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		10.3	T/Ac	103.0	213.4	550.8
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		25.8	Ac In /Ac	50.3		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/24/22					
W. Harvest	4/27/23	23.2	T/Ac	(161.1)	(66.2)	(128.9)

Summer Crop **S. Fallow**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	#N/A					
S. Harvest	-	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: RS1 **Acres:** 54.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/1/18	W. Planting	-	-	-	-	-	-	-	-	-	-		-
1/23/23	Canal	-	-	-	5.73	-	0.0	-	-	-	-		-
2/17/23	Canal	-	-	-	5.40	-	0.0	-	-	-	-		-
2/26/23	Canal	-	-	-	5.89	-	0.0	-	-	-	-		-
3/12/23	Canal	-	-	-	5.32	-	0.0	-	-	-	-		-
3/30/23	W. Harvest	-	-	-	-	-	(277.6)	(29.1)	(165.4)	-	9.29		8.39
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
6/12/23	S. Comm Fert App.	-	-	120	-	-	120.0	-	-	-	-		-
4/1/23	Canal	-	-	-	6.14	-	0.0	-	-	-	-		-
4/20/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
5/20/23	Canal	-	-	-	6.46	-	0.0	-	-	-	-		-
6/12/23	Canal	-	-	-	6.30	-	0.0	-	-	-	-		-
6/24/23	Canal	-	-	-	6.71	-	0.0	-	-	-	-		-
7/13/23	Canal	-	-	-	6.55	-	0.0	-	-	-	-		-
7/22/23	Canal	-	-	-	6.38	-	0.0	-	-	-	-		-
8/15/23	S. Harvest	-	-	-	-	-	(218.4)	(62.1)	(145.0)	-	4.51		25.30
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		120	60.88	0.00	(376)	(91)	(310)	-	13.80	0	33.69

Field Name/Number: RS1 **Acres:** 54.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	120.1	0.0	0.0	0.0
Nutrients Removed at Harvest	-496.0	-39.8	-257.7	0.0
Nutrient Balance	-375.9	-39.8	-257.7	0.0

Winter Nitrogen Crop App / Use Ratio: 0.03 **Summer Nitrogen Crop App / Use Ratio:** 1.13

Field Name/Number: RS1 **Acres:** 54

Winter Crop **Alfalfa, Green Chop**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		22.3	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
W. Planting	11/1/18					
W. Harvest	3/30/23	8.4	T/Ac	(277.6)	(66.5)	(198.5)

Summer Crop **Corn, Silage**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		120.0	lbs/Ac	120.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	120.0		
Canal		38.5	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	4/20/23					
S. Harvest	8/15/23	25.3	T/Ac	(218.4)	(142.3)	(174.0)

Nutrient Applications

Field Name/Number: RS2 **Acres:** 87.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/2/18	W. Planting	-	-	-	-	-	-	-	-	-	-		-
5/24/23	Canal	-	-	-	5.59	-	0.0	-	-	-	-		-
6/21/23	Canal	-	-	-	5.84	-	0.0	-	-	-	-		-
6/27/23	Canal	-	-	-	5.69	-	0.0	-	-	-	-		-
7/16/23	Canal	-	-	-	5.54	-	0.0	-	-	-	-		-
8/14/23	Canal	-	-	-	5.64	-	0.0	-	-	-	-		-
8/31/23	Canal	-	-	-	5.79	-	0.0	-	-	-	-		-
10/1/23	W. Harvest	-	-	-	-	-	(308.5)	(34.2)	(187.5)	-	9.29		9.86
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	34.08	0.00	(308)	(34)	(187)	-	9.29	0	9.86

Field Name/Number: RS2 **Acres:** 87.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.1	0.0	0.0	0.0
Nutrients Removed at Harvest	-308.5	-14.9	-155.6	0.0
Nutrient Balance	-308.4	-14.9	-155.6	0.0

Winter Nitrogen Crop App / Use Ratio: 0.02 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: RS2 **Acres:** 87

Winter Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		34.1	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
W. Planting	11/2/18					
W. Harvest	10/1/23	9.9	T/Ac	(308.5)	(78.3)	(224.9)

Summer Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: RS4W **Acres:** 60.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	W. Manure App.	10.00	-	-	-	-	100.5	90.8	447.6	-	-		-
10/24/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/28/22	R-2	-	-	-	6.52	-	-	-	-	-	-		-
11/29/22	R-2	-	-	-	6.33	-	-	-	-	-	-		-
2/13/23	R-2	-	-	-	6.44	-	-	-	-	-	-		-
4/26/23	W. Harvest	-	-	-	-	-	(90.6)	(22.1)	(112.7)	-	9.29		14.41
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/13/23	S. Comm Fert App.	-	-	90	-	-	90.0	-	-	-	-		-
4/28/23	Canal	-	-	-	6.78	-	0.0	-	-	-	-		-
5/17/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/21/23	Canal	-	-	-	6.92	-	0.0	-	-	-	-		-
7/13/23	Canal	-	-	-	6.63	-	0.0	-	-	-	-		-
7/22/23	Canal	-	-	-	6.70	-	0.0	-	-	-	-		-
8/1/23	Canal	-	-	-	6.48	-	0.0	-	-	-	-		-
8/10/23	Canal	-	-	-	6.85	-	0.0	-	-	-	-		-
8/30/23	S. Harvest	-	-	-	-	-	(143.9)	(36.0)	(81.3)	-	4.51		20.91
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.0		90	59.65	0.00	(44)	33	254	-	13.80	0	35.32

Field Name/Number: RS4W **Acres:** 60.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	190.6	39.6	371.5	0.0
Nutrients Removed at Harvest	-234.5	-25.3	-161.0	0.0
Nutrient Balance	-44.0	14.3	210.5	0.0

Winter Nitrogen Crop App / Use Ratio: 1.19 **Summer Nitrogen Crop App / Use Ratio:** 1.30

Field Name/Number: RS4W **Acres:** 60

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		10.0	T/Ac	100.5	208.0	537.1
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		19.3	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/24/22					
W. Harvest	4/26/23	14.4	T/Ac	(90.6)	(50.5)	(135.2)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		90.0	lbs/Ac	90.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	90.0		
Canal		40.4	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	5/17/23					
S. Harvest	8/30/23	20.9	T/Ac	(143.9)	(82.4)	(97.6)

Nutrient Applications

Field Name/Number: 29-Wasco **Acres:** 33.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	W. Manure App.	10.61	-	-	-	-	106.6	96.4	474.7	-	-		-
10/21/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/28/22	Wasco Way	-	-	-	6.53	-	-	-	-	-	-		-
12/1/22	Wasco Way	-	-	-	6.38	-	-	-	-	-	-		-
2/13/23	Wasco Way	-	-	-	6.48	-	-	-	-	-	-		-
4/21/23	W. Harvest	-	-	-	-	-	(113.7)	(31.8)	(132.1)	-	9.29		20.48
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/10/23	S. Comm Fert App.	-	-	120	-	-	120.0	-	-	-	-		-
4/29/23	Canal	-	-	-	6.83	-	0.0	-	-	-	-		-
5/17/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/21/23	Canal	-	-	-	6.56	-	0.0	-	-	-	-		-
7/10/23	Canal	-	-	-	6.43	-	0.0	-	-	-	-		-
7/20/23	Canal	-	-	-	6.16	-	0.0	-	-	-	-		-
7/30/23	Canal	-	-	-	6.69	-	0.0	-	-	-	-		-
8/11/23	Canal	-	-	-	6.96	-	0.0	-	-	-	-		-
8/29/23	S. Harvest	-	-	-	-	-	(226.3)	(70.9)	(150.8)	-	4.51		26.21
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		10.6		120	59.01	0.00	(113)	(6)	192	-	13.80	0	46.70

Field Name/Number: 29-Wasco **Acres:** 33.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	226.6	42.0	394.0	0.0
Nutrients Removed at Harvest	-339.9	-44.8	-234.8	0.0
Nutrient Balance	-113.3	-2.7	159.2	0.0

Winter Nitrogen Crop App / Use Ratio: 1.00 **Summer Nitrogen Crop App / Use Ratio:** 1.09

Field Name/Number: 29-Wasco **Acres:** 33

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		10.6	T/Ac	106.6	220.7	569.6
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		19.4	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/21/22					
W. Harvest	4/21/23	20.5	T/Ac	(113.7)	(72.7)	(158.5)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		120.0	lbs/Ac	120.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	120.0		
Canal		39.6	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	5/17/23					
S. Harvest	8/29/23	26.2	T/Ac	(226.3)	(162.3)	(181.0)

Nutrient Applications

Field Name/Number: 30-Wasco **Acres:** 55.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
10/31/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
11/28/22	Wasco Way	-	-	-	5.75	-	-	-	-	-	-		-
2/19/23	Wasco Way	-	-	-	5.87	-	-	-	-	-	-		-
4/20/23	Wasco Way	-	-	-	6.00	-	-	-	-	-	-		-
5/23/23	Wasco Way	-	-	-	5.90	-	-	-	-	-	-		-
6/17/23	Wasco Way	-	-	-	5.72	-	-	-	-	-	-		-
7/17/23	Wasco Way	-	-	-	5.97	-	-	-	-	-	-		-
8/14/23	Wasco Way	-	-	-	5.84	-	-	-	-	-	-		-
8/28/23	Wasco Way	-	-	-	5.78	-	-	-	-	-	-		-
10/1/23	W. Harvest	-	-	-	-	-	(349.8)	(27.8)	(196.2)	-	9.29		8.22
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	46.85	0.00	(350)	(28)	(196)	-	9.29	0	8.22

Field Name/Number: 30-Wasco **Acres:** 55.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	-349.8	-12.1	-162.8	0.0
Nutrient Balance	-349.8	-12.1	-162.8	0.0

Winter Nitrogen Crop App / Use Ratio: 0.02 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: 30-Wasco **Acres:** 55

Winter Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		46.8	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/31/22					
W. Harvest	10/1/23	8.2	T/Ac	(349.8)	(63.6)	(235.4)

Summer Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number: 31-Bussell **Acres:** 80.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	W. Manure App.	10.00	-	-	-	-	100.5	90.8	447.6	-	-		-
10/24/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/31/22	H-1	-	-	-	6.20	-	9.6	-	-	312	-		-
12/8/22	H-1	-	-	-	6.38	-	9.8	-	-	321	-		-
2/13/23	H-1	-	-	-	6.29	-	9.7	-	-	317	-		-
4/27/23	W. Harvest	-	-	-	-	-	(118.0)	(24.2)	(86.7)	-	9.29		17.78
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
4/30/23	S. Manure App.	12.50	-	-	-	-	94.2	101.7	578.3	-	-		-
5/2/23	BR 31 (Bussell)	-	-	-	6.57	-	9.5	-	-	358	-		-
5/20/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/17/23	H-1	-	-	-	6.38	-	9.8	-	-	321	-		-
6/29/23	H-1	-	-	-	6.50	-	10.0	-	-	327	-		-
7/10/23	H-1	-	-	-	6.41	-	9.9	-	-	323	-		-
8/3/23	H-1	-	-	-	6.59	-	10.2	-	-	332	-		-
8/15/23	H-1	-	-	-	6.53	-	10.1	-	-	329	-		-
8/30/23	S. Harvest	-	-	-	-	-	(137.4)	(36.9)	(113.8)	-	4.51		20.99
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		22.5		0	57.85	0.00	28	131	825	2,939	13.80	0	38.76

Field Name/Number: 31-Bussell **Acres:** 80.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	283.3	84.0	851.6	2939.0
Nutrients Removed at Harvest	-255.4	-26.7	-166.4	0.0
Nutrient Balance	27.8	57.4	685.2	2939.0

Winter Nitrogen Crop App / Use Ratio: 1.16 **Summer Nitrogen Crop App / Use Ratio:** 1.17

Field Name/Number: 31-Bussell **Acres:** 80

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		10.0	T/Ac	100.5	208.0	537.1
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		18.9	Ac In /Ac	29.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	10/24/22					
W. Harvest	4/27/23	17.8	T/Ac	(118.0)	(55.4)	(104.1)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		12.5	T/Ac	94.2	233.0	694.0
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		39.0	Ac In /Ac	59.5		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	5/20/23					
S. Harvest	8/30/23	21.0	T/Ac	(137.4)	(84.6)	(136.5)

Nutrient Applications

Field Name/Number: D13S-W **Acres:** 75.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
	-	-	-	-	-	-	-	-	-	-	-		-
11/8/20	W. Planting	-	-	-	-	-	-	-	-	-	-		-
10/24/22	D1	-	-	-	5.83	-	3.0	-	-	198	-		-
4/16/23	D1	-	-	-	5.61	-	2.9	-	-	191	-		-
5/25/23	D1	-	-	-	5.35	-	2.8	-	-	182	-		-
6/21/23	D1	-	-	-	5.44	-	2.8	-	-	185	-		-
6/26/23	D1	-	-	-	5.57	-	2.9	-	-	190	-		-
7/4/23	D1	-	-	-	5.38	-	2.8	-	-	183	-		-
7/25/23	D1	-	-	-	5.54	-	2.9	-	-	188	-		-
8/8/23	D1	-	-	-	5.67	-	3.0	-	-	193	-		-
10/1/23	W. Harvest	-	-	-	-	-	(177.1)	(19.7)	(123.6)	-	13.60		8.20
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	44.39	0.00	(154)	(20)	(124)	1,510	13.60	0	8.20

Dry Weight
As Received

Field Name/Number: D13S-W **Acres:** 75

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	23.1	0.0	0.0	1509.9
Nutrients Removed at Harvest	-177.1	-19.7	-123.6	0.0
Nutrient Balance	-154.0	-19.7	-123.6	1509.9

Winter Nitrogen Crop App / Use Ratio: 0.17 **Summer Nitrogen Crop App / Use Ratio:** #N/A

Field Name/Number: D13S-W **Acres:** 75

Winter Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	-	Ac In /Ac	-	-	-
	Q2	-	Ac In /Ac	-	-	-
Well Water		44.39	Ac In /Ac	23.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/8/20					
W. Harvest	10/1/23	8.2	T/Ac	(177.1)	(45.2)	(148.3)

Summer Crop **Alfalfa, Green Chop**

Nutrient Summary :		Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	-	Ac In /Ac	-	-	-
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	0		
Canal		-	Ac In /Ac	-		
Atm. Depos.		#N/A		#N/A		
S. Planting	#N/A					
S. Harvest	#N/A	#N/A	T/Ac	#N/A	#N/A	#N/A

Notes

Without allowance for the significant amount of rainfall during the winter months of 2022/2023, the irrigation logs on each field page of the annual report, reflect canal and/or well used only during that time frame. The facility did not irrigate during the "Significant Storm Events".

It is inaccurate to present "salt" application without acknowledging that there is substantial uptake and utilization of "salts" by crops. If it is possible to calculate "salt" application, it is also possible to calculate "salt" utilization. That calculation should be included in this report. To calculate "salt" utilization is a lengthy process and cannot be done with the constituents required in the Revised General Order sampling requirements.

The signature(s) affixed to this report does not affirmatively refer to those references to "salt" that we know to be incorrect.

MG *(Initial)*

Exception Reporting

Manure , Process Water and Other Dairy Waste Discharges:

The following is a summary of all manure and process water 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.

No, manure or process water discharges occurred during the reporting period

Storm Water Discharges:

The follow is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No, storm water discharges occurred durging the reporting period

Land Application Area To Surface Water Discharges:

The following is a summary of all discharges from the land application area surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient

No, land application area to surface water discharges occurred during the reporting period

Nutrient Management Plan (NMP) & Written Agreement Statement

Nutrient Management Plan Statement:

Was the faciltiy NMP updated in the reporting period? Yes

Was the facility's NMP developed and approved by a certified nutrient management specialist? Yes

Written Agreements:

Are there any written agreements with third parties to receive manure or process water that are new or were revised within the repoting period? No

Owner and/or Operator Certification

**I certify under penalty of law that all information submitted as part of this document is accurate and true. Certification signatures by a California Registered Professional have been supplied as needed in Part II. I have personally examined and am familiar with the information submitted in Parts I and II of 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.*

Mike Goyenetche	
Signature of Owner of Facility	**Signature of Operator of Facility**
Gracie, Michael & John Goyenetche	Same as owner
Print Name	**Print Name**
04/11/2024	
Date	**Date**

SCANNED 1/30/24

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: R&M Farm Service Inc.

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Rd, Buttonwillow, CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: McCaslin Trucking Inc.

Address of Hauling Company /Person: 18661 Beech Ave, Shafter, CA 93263
Number and Street / City / Zip Code

Contact Person: Mr. McCaslin 661-746-1125
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):

Valley Ag Holdings Ranch 304, 3908 W. Caldwell Avenue, Visalia, CA 93277
Name / Number and Street / City / Zip Code / Phone Number

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

Highway 46 and Highway 43, Wasco CA 93280
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 10/26/23

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:

- Manure: 252.68 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scale

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 10/27/23

Hauler's Signature: G Trujillo Date: 10-27-23

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: R&M Farm Service Inc.

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6841 Brandt Rd., Buttonwillow, CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: McCaslin Trucking Inc.

Address of Hauling Company /Person: 18661 Beech Ave, Shafter, CA 93263
Number and Street / City / Zip Code

Contact Person: Mr. McCaslin 661-746-1125
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):

Valley Ag Holding Brooks Farms, 3908 N. Caldwell Avenue, Visalia, CA 93277
Name / Number and Street / City / Zip Code / Phone Number

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

Road 190 and Road 184, Lindsay CA 93247
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 10/27, 10/28/23

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:

- Manure: 325.29 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scale

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 10/28/23

Hauler's Signature: G Trujillo Date: 10/28/23

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: R & M Farm Service Inc.

Name of Dairy Facility: Gojenetche Dairy

Facility Address: 6041 Brandt Rd., Buttonwillow, CA 93206
Number and Street, City, Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name, Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Wayne Johnson Transport Inc.

Address of Hauling Company /Person: 16018 Central Ave, Wasco, CA 93280
Number and Street, City, Zip Code

Contact Person: Wayne 661-758-5459
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):

Holloway Agriculture Services, LLC, 2019 Westwind Drive, Ste B, Bakersfield, CA 93301 661-758-6485
Name, Number and Street, City, Zip Code, Phone Number

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

Highway 46 and Gun Club, Wasco CA 93280
Number and Street, City, Zip Code, Assessor's Parcel Number

Dates Hauled: 10/26, 10/27/23

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:

- Manure: 618.45 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scale

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: Brownie Juarez Date: 10/26/23

Hauler's Signature: [signature] Date: 10/26/23

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: RKM Farm Service

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Rd., Buttonwillow CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3131
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: McCaslin Trucking Inc.

Address of Hauling Company /Person: 18661 Beech Ave., Shafter, CA 93263
Number and Street / City / Zip Code

Contact Person: Mr. McCaslin 661-746-1125
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):

Valley Ag Holdings, 3908 W. Caldwell Avenue, Visalia CA 93277
Name / Number and Street / City / Zip Code / Phone Number

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

Highway 194 and Poplar Porterville CA 93257
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 10/30/23

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:

- Manure: 252.02 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy scale

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 10/30/23

Hauler's Signature: G Trujillo Date: 10/30/23

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: R&M Farm Service Inc.

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Rd., Buttonwillow, CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: McCaslin Trucking Inc.

Address of Hauling Company /Person: 18661 Beech Ave., Shafter, CA 93263
Number and Street / City / Zip Code

Contact Person: Mr. McCaslin 661-746-1125
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):

Valley Ag Holdings, 3908 W. Caldwell Avenue, Visalia, CA 93277
Name / Number and Street / City / Zip Code / Phone Number

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

Avenue 176 and Poplar, Porterville, CA 93257
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 10/30, 10/31/23

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:

- Manure: 154.78 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scale

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 10-30-23

Hauler's Signature: [signature] Date: 10-30-23

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: R&M Farm Service Inc.

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Rd, Buttonwillow, CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Wayne Johnson Transport Inc.

Address of Hauling Company /Person: 16018 Central Ave., Wasco, CA 93280
Number and Street / City / Zip Code

Contact Person: Wayne 661-758-5459
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):

Elk Grove Farming Co, 2911 Elk Grove Road Buttonwillow, CA 93206 661-764-5802
Name / Number and Street / City / Zip Code / Phone Number

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

Elk Grove and Highway 58, Buttonwillow, CA 93206
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 10/31, 11/1/23

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:

- Manure: 229.45 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scale

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 10-31-23

Hauler's Signature: Severiano Soto Date: 10-31-23

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: R&M Farm Service Inc.

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Road, Buttonwillow CA 93206
Number and Street — City — Zip Code

Contact Person Name: Michael Martin — 661-667-3931
Name — Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Wayne Johnson Transport Inc

Address of Hauling Company /Person: 16018 Central Avenue, Wasco, CA 93280
Number and Street — City — Zip Code

Contact Person: Wayne Johnson — 661-758-5459
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):

Paul Farms 2235 Highway 46, #103, Wasco, CA 93280
Name — Number and Street — City — Zip Code — Phone Number

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

Corcoran Road and Garces Wasco CA 93280
Number and Street — City — Zip Code — Assessor's Parcel Number

Dates Hauled: 11/10/23, 11/11/23, 11/13/23

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:

- Manure: 466.97 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: _____ Date: 11-11-23

Hauler's Signature: _____ Date: 11/11/23

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: R&M Farm Service Inc

Name of Dairy Facility: Gayenotche Dairy

Facility Address: 6041 Brandt Road, Bakersfield CA 93256
Number and Street — City — Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name — Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Holloway Logistics LLC

Address of Hauling Company /Person: 2019 Westwind Drive, Ste B., Bakersfield CA 93301
Number and Street — City — Zip Code

Contact Person: John 661-758-6484
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):

Holloway Agriculture Services LLC, 2019 Westwind Drive Ste B Bakersfield CA 93301 661-758-6485
Name — Number and Street — City — Zip Code — Phone Number

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

Highway 46 and Highway 101, Paso Robles CA 93446
Number and Street — City — Zip Code — Assessor's Parcel Number

Dates Hauled: 11-15-23

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:

- Manure: 22.17 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: _____ Date: 11-15-23

Hauler's Signature: _____ Date: 11/15/23

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: R & M Farm Service Inc.

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Road, Buttonwillow CA 93206
Number and Street — City — Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name — Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Wayne Johnson Transport Inc

Address of Hauling Company /Person: 16018 Central Avenue, Wasco CA 93280
Number and Street — City — Zip Code

Contact Person: Wayne Johnson 661-758-5459
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):

Paul Farms 2235 Highway 46, #103, Wasco, CA 93280
Name — Number and Street — City — Zip Code — Phone Number

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

Highway 46 and McKibben and Rowlee Road, Wasco, CA 93280
Number and Street — City — Zip Code — Assessor's Parcel Number

Dates Hauled: 11-27-23 and 11-28-23

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:

- Manure: 981.97 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: _____ Date: 11-27-23

Hauler's Signature: _____ Date: 11/27/23

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: R&M Farm Service Inc

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Road, Buttonwillow CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Holloway Logistics LLC

Address of Hauling Company /Person: 2019 Westwind Drive Ste B. Bakersfield, CA 93301
Number and Street / City / Zip Code

Contact Person: John 661-758-6484
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):

Holloway Agriculture Services LLC, 2019 Westwind Drive Ste B, Bakersfield, CA 93301 661-758-6485
Name / Number and Street / City / Zip Code / Phone Number

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

Kimberline and Western Avenue, Wasco CA 93280
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 11-28-23 & 11-29-23

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:

- Manure: 180.24 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: _____ Date: 11-29-23

Hauler's Signature: _____ Date: 11-29-23

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: R&M Farm Service Inc

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Road, Buttonwillow CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-467-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Holloway Logistics LLC

Address of Hauling Company /Person: 2019 Westwind Drive Ste B, Bakersfield, CA 93301
Number and Street / City / Zip Code

Contact Person: John 661-758-6484
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):

Holloway Agricultural Services LLC 2019 Westwind Drive Ste B Bakersfield CA 93301 661-758-6485
Name / Number and Street / City / Zip Code / Phone Number

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

Magnolia and Fresno Street Wasco CA 93280
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 11-28-23

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:

- Manure: 198.39 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 11-28-23

Hauler's Signature: _____ Date: _____

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: R & M Farm Service Inc.

Name of Dairy Facility: Goyematche Dairy

Facility Address: 6041 Brandt Road, Buttonwillow, CA 93206
Number and Street / City / Zip Code

Contact Person Name: Michael Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Holloway Logistics LLC

Address of Hauling Company /Person: 2019 Westwind Drive Ste B Bakersfield, CA 93301
Number and Street / City / Zip Code

Contact Person: John 661-758-6484
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):

Holloway Agriculture Services LLC, 2019 Westwind Drive Ste B, Bakersfield CA 93301 661-758-6485
Name / Number and Street / City / Zip Code / Phone Number

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

McCombs and Wildwood, Wasco CA 93380
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 11-29-23 & 11-30-23

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:

- Manure: 209.1 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 11-30-23

Hauler's Signature: _____ Date: _____

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: R&M Farm Service Inc

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Road, Bottonwillow, CA 93280
Number and Street City Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Holloway Logistics LLC

Address of Hauling Company /Person: 2019 Westwind Drive Ste B, Bakersfield CA 93301
Number and Street City Zip Code

Contact Person: John 661-758-6484
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):

Holloway Agriculture Services LLC, 2019 Westwind Drive Ste B, Bakersfield CA 93301 661-758-6485
Name Number and Street City Zip Code Phone Number

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

Scofield and McCombs, Wasco, CA 93280
Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: 11-29-23

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:

- Manure: 74.72 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 80
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: _____ Date: 11-29-23

Hauler's Signature: _____ Date: 11-29-23

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: R&M Farm Service Inc.

Name of Dairy Facility: Grapevine Dairy

Facility Address: 6041 Brandt Road, Buttonwillow, CA 93206
Number and Street — City — Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name — Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Wayne Johnson Transport Inc

Address of Hauling Company /Person: 16018 Central Avenue, Wasco CA 93280
Number and Street — City — Zip Code

Contact Person: Wayne 661-758-5459
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):

Paul farms 2235 Highway 46 #105 Wasco, CA 93280
Name — Number and Street — City — Zip Code — Phone Number

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

Hwy 43 Magnolia, Peterson, Sherwood, Wasco CA 93280
Number and Street — City — Zip Code — Assessor's Parcel Number

Dates Hauled: 12/1, 12/2, 12/4, 12/5, and 12/6/23

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:

- Manure: 2,257.33 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: _____ Date: 12-1-23

Hauler's Signature: _____ Date: 12/1/23

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: R&M Farm Service Inc

Name of Dairy Facility: Greenotte Dairy

Facility Address: 6041 Brandt Road, Bettenwillow CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Wayne Johnson Transport Inc

Address of Hauling Company /Person: 16018 Central Avenue, Wasco, CA 93280
Number and Street / City / Zip Code

Contact Person: Wayne 661-758-5459
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):

Paul Farms 2235 Highway 46 #103, Wasco CA 93280
Name / Number and Street / City / Zip Code / Phone Number

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

Western Avenue, Kimberline Road, Dresser Road, Shafter, CA
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 12-18-23

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:

- Manure: 810.03 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 12-18-23

Hauler's Signature: Jaime Soto Date: 12-19-23

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: R&M Farm Service Inc

Name of Dairy Facility: Cayenotello Dairy

Facility Address: 6041 Brandt Road, Bakersfield, CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-867-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Wayne Johnson Transport Inc

Address of Hauling Company /Person: 16018 Central Avenue, Wasco, CA 93280
Number and Street / City / Zip Code

Contact Person: Wayne 661-758-5459
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):

Paul Farms, 2235 Highway 46, #103, Wasco, CA 93280
Name / Number and Street / City / Zip Code / Phone Number

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

Western Avenue, Kimberlina Road, Dresser Road Shafter, CA
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 12-18-23, 12-19-23

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:

- Manure: 254.19 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 12-18-23

Hauler's Signature: Isidro Lopez Date: 12-18-23

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: R&M Farm Service Inc

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6041 Brandt Rd, Buttonwillow, CA 93206
Number and Street City Zip Code

Contact Person Name: Mike Martin (661-667-3931)
Name Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: McCaslin Trucking Inc

Address of Hauling Company /Person: 18661 Beech Avenue, Shafter CA 93263
Number and Street City Zip Code

Contact Person: Mr. McCaslin (661-746-1125)
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):

Matt Pandol and Sons Inc 33150 Pond Road, Delano CA 93215
Name Number and Street City Zip Code Phone Number

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

29794 Schuster Road, Delano, CA 93215
Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: 12/1/23

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:

- Manure: 445.01 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 30
- Method used to determine amount of manure: Dairy Scales

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: _____ Date: 12-1-23

Hauler's Signature: G Trujillo Date: 12-01-23

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: R & M Farm Service Inc

Name of Dairy Facility: Goyenetche Dairy

Facility Address: 6011 Brandt Road, Bakersfield, CA 93206
Number and Street / City / Zip Code

Contact Person Name: Miguel Martin 661-667-3931
Name / Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Dickie Branch Trucking

Address of Hauling Company /Person: 11506 Traviso Avenue, Bakersfield CA 93312
Number and Street / City / Zip Code

Contact Person: Dickie 661-979-5902
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):

KM Holloway Agriculture Service PO Box 2284, Bakersfield, CA 93303
Name / Number and Street / City / Zip Code / Phone Number

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

Magnolia & Tulare, Shafter CA 93263
Number and Street / City / Zip Code / Assessor's Parcel Number

Dates Hauled: 2-4-23

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:

- Manure: 210.88 Tons or Cubic Yards (indicate which units used)
- Manure Moisture % : 20
- Method used to determine amount of manure: Dairy Scales

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: _____

N/A

Written Agreement:

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

_____ Yes _____ No

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

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

Certification:

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

Operator's Signature: [signature] Date: 2-24-23

Hauler's Signature: Dickie Branch Date: 2-24-23

Livingston Dairy Consulting, Inc.

FIELD ACTIVITY REPORT

Facility Name: Goyenetche Dairy
6041 Brandt Road, Buttonwillow
Kern County

2023

Sample Collection Equipment:
Bottle Container

Sample Container: (Circle one)
Bottle Container: 8 fl oz 16 fl oz 32 fl oz

Sample Collection Location: (Circle one)
Discharge Pipe Spigot/Faucet

Sample Collection Method: (Circle one) *All Samples are labeled with the facility name, date, contents, location and description ** Please see the Sample and Anylsis Plan for more detailed descriptions.

Well: **Sample taken at the Discharge Pipe, Spigot or Faucet using a sample container provided by laboratory**

Sample Type:

Date	Well Name	Time	PH	Temp	Ammonium
2/10	Barn	7:06	6.5	68	Ø
	BR Dom	7:10	6.6	67	Ø
6/30	D4	7:21	7	66	Ø
	D5	7:29	7	67	Ø
7/11	BR31	6:01	6	64	Ø
	H1	6:06	6.5	66	Ø
	H3	6:11	7	66	Ø
	H2	6:17	6	67	Ø
	D3	6:22	7	66	Ø
	D2	6:28	6.5	68	Ø
	D1	6:35	7	67	Ø
	G1	6:39	7	66	Ø

Sample Preservation Method: (Circle one) **Ice Chest Refrigerator Ice Pack**

Livingston Dairy Contuling, Inc. 2020

Grovenetche Dairy

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

March 9, 2023

Lab No. : **VI 2340879**
Customer No. : **4018505**

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

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
Barn	02/10/2023	02/10/2023	VI 2340879-001	DW
BR Dom	02/10/2023	02/10/2023	VI 2340879-002	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

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

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-03-09

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

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

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

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

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

March 9, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2340879-001
Customer No. : 4018505

Sampled On : February 10, 2023 at 07:10
Sampled By : KC / MF
Received On : February 10, 2023 at 10:39
Matrix : Drinking Water

Description : Barn
Project : W-6 Goyenetehe Dairy

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/24/2023	11:30	sta	EPA 351.2	03/01/2023	17:46	lcr
Nitrate Nitrogen	10.3	0.4	mg/L	10	1		03/01/2023	11:00	lfs	SM 4500-NO3 F	03/01/2023	12:31	lfs
Nitrogen, Total as Nitrogen	10.3	0.5	mg/L		1		02/24/2023	11:30	sta	EPA 351.2	03/01/2023	17:46	lcr
Nitrate + Nitrite as N	10.3	0.4	mg/L	10	1		03/01/2023	11:00	lfs	SM 4500-NO3 F	03/01/2023	12:31	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/24/2023	11:30	sta	EPA 351.2	03/01/2023	17:46	lcr
Conductivity	789	1	umhos/cm	1600[2]	1		03/01/2023	17:08	amm	SM 4500-H+B	03/01/2023	20:24	sta
Solids, Total Dissolved (TDS)	490	20	mg/L	1000[2]	1		02/14/2023	12:50	ctl	SM 2540 C	02/15/2023	12:40	ctl

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

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

Page 2 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

March 9, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2340879-002
Customer No. : 4018505

Sampled On : February 10, 2023 at 07:15
Sampled By : KC / MF
Received On : February 10, 2023 at 10:39
Matrix : Drinking Water

Description : BR Dom
Project : W-6 Goyenetehe Dairy

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/24/2023	11:30	sta	EPA 351.2	03/01/2023	17:59	lcr
Nitrate Nitrogen	3.2	0.4	mg/L	10	1		02/21/2023	12:00	lfs	SM 4500-NO3 F	02/21/2023	13:11	lfs
Nitrogen, Total as Nitrogen	3.2	0.5	mg/L		1		02/24/2023	11:30	sta	EPA 351.2	03/01/2023	17:59	lcr
Nitrate + Nitrite as N	3.2	0.4	mg/L	10	1		02/21/2023	12:00	lfs	SM 4500-NO3 F	02/21/2023	13:11	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/24/2023	11:30	sta	EPA 351.2	03/01/2023	17:59	lcr
Conductivity	578	1	umhos/cm	1600[2]	1		02/21/2023	14:01	sta		02/21/2023	14:01	sta
Solids, Total Dissolved (TDS)	330	20	mg/L	1000[2]	1		02/14/2023	15:27	ctl	SM 2540 C	02/15/2023	12:25	ctl

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

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

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

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

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

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

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

March 9, 2023
Livingston Dairy Consulting, Inc.

Lab No. : VI 2340879
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2341105-003)	Dup	umhos/cm		0.3%	5	
	2510B	02/21/2023:201893STA	Blank	umhos/cm		ND	<1	
		(VI 2340956-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	02/14/2023:201630CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	98.4 %	90-110	
		(VI 2340882-003)	Dup	mg/L		1.4%	5	
		(VI 2340882-003)	Dup	mg/L		4.5%	5	
			Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	101 %	90-110	
		(STK2331874-006)	Dup	mg/L		1.4%	5	
		(STK2331874-006)	Dup	mg/L		0.1%	5	
Nitrogen, Total Kjeldahl	351.2	02/24/2023:202049STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	91.2%	73-124	
			MS	mg/L	12.00	84.9%	54-136	
		(VI 2340880-001)	MSD	mg/L	12.00	83.6%	54-136	
			MSRPD	mg/L	12.00	1.5%	≤27	
			MS	mg/L	12.00	88.2%	54-136	
		(VI 2340880-002)	MSD	mg/L	12.00	89.0%	54-136	
			MSRPD	mg/L	12.00	0.8%	≤27	
Nitrate + Nitrite as N	4500NO3F	02/21/2023:201925LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.5%	80-120	
			MS	mg/L	5.609	97.3%	66-125	
		(SP 2302506-001)	MSD	mg/L	5.609	96.8%	66-125	
			MSRPD	mg/L	5.609	0.2%	≤30.4	
	4500NO3F	03/01/2023:202233LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	95.6%	80-120	
			MS	mg/L	5.609	93.3%	66-125	
		(SP 2302899-001)	MSD	mg/L	5.609	95.8%	66-125	
			MSRPD	mg/L	5.609	1.8%	≤30.4	
Nitrate Nitrogen	4500NO3F	02/21/2023:201925LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.5%	80-120	
			MS	mg/L	5.609	97.3%	66-125	
		(SP 2302506-001)	MSD	mg/L	5.609	96.8%	66-125	
			MSRPD	mg/L	5.609	0.2%	≤30.4	
	4500NO3F	03/01/2023:202233LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	95.6%	80-120	
			MS	mg/L	5.609	93.3%	66-125	
		(SP 2302899-001)	MSD	mg/L	5.609	95.8%	66-125	
			MSRPD	mg/L	5.609	1.8%	≤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 analyted. 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
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

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

Special

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 3)

42086:03/01/2022

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: **Livingston Dairy Consulting, Inc.**
Address: Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Phone: (559)687-1440 Fax:
Contact Person: Noreen Livingston
Project Name: W-6 Goyenetche Dairy
Purchase Order Number:
Quote Number: VI 20210208-01

Sampler(s) Ice / MF

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: VI 2310879 (2340879) 4-18505

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Sampling-W-6 - Total N - Split Bottle ***VI Lab to Split for Total N*** 8oz(P)-H2SO4								
1	Barn	2/10/23	7:10	G	DW	P			1	1								
2	BR Dom	2/10/23	7:15	G	DW	P			1	1								
3				G					1	1								
4				G					1	1								
5				G					1	1								
6				G					1	1								
7				G					1	1								
8				G					1	1								
9				G					1	1								
10				G					1	1								

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
Kal Cal	2/10/23	1039	MMe	2/10/23	1730	GLS	2/11/23	1210
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
MMe	2-10-23	1039	GLS	2/10/23	1730		/	/

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OK
2. Were samples received in a chilled condition? Temps: 6.04 Rol / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	VOAs checked for Headspace?	Yes	No	N/A
6.	Were sample custody seals intact?	Yes	No	N/A
7.	If required, was sample split for pH analysis?	Yes	No	N/A
8.	Were all analyses within holding times at time of receipt?	Yes	No	
9.	Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): NBC

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2c / ____ / ____ / ____ / ____
   Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 558796176 154 195

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	Yes	No		
2.	Did bottle labels correspond with the client's ID's?	Yes	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	N/A	
5.	Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6.	Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): NDC

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:
   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____
   Problem:
   Resolution:

(Please use the back of this sheet for additional co
contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2340879
iv 02/13/2023 09:53:27
VI 2340879

Gosenetche

FGL
ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

July 28, 2023

Lab No. : **VI 2344022**
Customer No. : **4018505**

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

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
D4	06/30/2023	06/30/2023	VI 2344022-001	AGW
D5	06/30/2023	06/30/2023	VI 2344022-002	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: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-07-31

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

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

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

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

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

July 28, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Description : D4
Project : W-6 Goyenetche Dairy

Lab No. : VI 2344022-001
Customer No. : 4018505

Sampled On : June 30, 2023 at 07:21
Sampled By : Marlene Ferreira
Received On : June 30, 2023 at 11:47
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	07/18/2023	18:20	lcr	EPA 351.2	07/24/2023	18:49	lcr
Nitrate Nitrogen	7.0	0.4	mg/L		1		07/06/2023	11:00	lfs	SM 4500-NO3 F	07/06/2023	12:59	lfs
Nitrogen, Total as Nitrogen	7.0	0.5	mg/L		1		07/18/2023	18:20	lcr	Calc.	07/24/2023	18:49	lcr
Nitrate + Nitrite as N	7.0	0.4	mg/L		1		07/06/2023	11:00	lfs	SM 4500-NO3 F	07/06/2023	12:59	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/18/2023	18:20	lcr	EPA 351.2	07/24/2023	18:49	lcr
Conductivity	743	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	18:20	sta
Solids, Total Dissolved (TDS)	480	10	mg/L		1		07/03/2023	14:20	ctl	SM 2540 C	07/05/2023	11:30	ctl

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

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

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

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

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

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

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

July 28, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Description : D5
Project : W-6 Goyenetche Dairy

Lab No. : VI 2344022-002
Customer No. : 4018505

Sampled On : June 30, 2023 at 07:29
Sampled By : Marlene Ferreira
Received On : June 30, 2023 at 11:47
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	07/18/2023	18:20	lcr	EPA 351.2	07/24/2023	18:52	lcr
Nitrate Nitrogen	8.5	0.4	mg/L		1		07/06/2023	11:00	lfs	SM 4500-NO3 F	07/06/2023	13:01	lfs
Nitrogen, Total as Nitrogen	8.5	0.5	mg/L		1		07/18/2023	18:20	lcr	Calc.	07/24/2023	18:52	lcr
Nitrate + Nitrite as N	8.5	0.4	mg/L		1		07/06/2023	11:00	lfs	SM 4500-NO3 F	07/06/2023	13:01	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/18/2023	18:20	lcr	EPA 351.2	07/24/2023	18:52	lcr
Conductivity	832	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	22:17	sta
Solids, Total Dissolved (TDS)	580	20	mg/L		1		07/05/2023	12:40	ctl	SM 2540 C	07/06/2023	11:45	ctl

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

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

Page 3 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

July 28, 2023
Livingston Dairy Consulting, Inc.

Lab No. : VI 2344022
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(STK2338587-004)	Dup	umhos/cm		0.6%	5	
		(VI 2344352-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	07/03/2023:207268CTL	Blank	mg/L		ND	<10	
			LCS	mg/L	993.7	102%	90-110	
		(SP 2311171-001)	Dup	mg/L		1.22%	12.2	
	2540CE	07/05/2023:207267CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	99.5%	90-110	
		(SP 2311350-001)	Dup	mg/L		0.04%	5	
		(SP 2311350-001)	Dup	mg/L		0.04%	5	
Nitrogen, Total Kjeldahl	351.2	07/18/2023:207877LCR	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	96.7%	73-124	
			MS	mg/L	12.00	98.0%	54-136	
		(STK2338509-004)	MSD	mg/L	12.00	95.4%	54-136	
			MSRPD	mg/L		2.7%	≤27	
			MS	mg/L	12.00	88.1%	54-136	
		(STK2338568-001)	MSD	mg/L	12.00	89.7%	54-136	
			MSRPD	mg/L		1.4%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/06/2023:207353LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.8%	80-120	
			MS	mg/L	5.609	97.1%	66-125	
		(SP 2311380-001)	MSD	mg/L	5.609	97.2%	66-125	
			MSRPD	mg/L		0.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/06/2023:207353LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.8%	80-120	
			MS	mg/L	5.609	97.1%	66-125	
		(SP 2311380-001)	MSD	mg/L	5.609	97.2%	66-125	
			MSRPD	mg/L		0.1%	≤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 analyted. 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.

Page 4 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

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

Special

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 2)

42086:04/01/2023

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: **Livingston Dairy Consulting, Inc.**
Address: Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Phone: (559)687-1440 Fax:
Contact Person: Noreen Livingston
Project Name: W-6 Grayenetche Dairy
Purchase Order Number:
Quote Number: VI 20210208-01
Sampler(s) Marlene

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: VI 2344022 4-18505

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Bottles/Containers Split Fee 8oz(P)-H2SO4
1	D4	6/30	7:21AM	G	AgW	NP			1	1
2	D5	6/30	7:29AM	G	AgW	NP			1	1
3				G					1	1
4				G					1	1
5				G					1	1
6				G					1	1
7				G					1	1
8				G					1	1
9				G					1	1
10				G					1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[signature]	6/30/23	11:47	SRO	6/30/23	1730	GLS	7/1/23	1340
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
SRO	6/30/23	1147	GLS	6/30/23	1730	[signature]	7/1/23	1340

R01 4.9

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH (VI)

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: R01 / 4.9° / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	
5.	VOAs checked for Headspace?	Yes	No	(N/A)
6.	Were sample custody seals intact?	Yes	No	(N/A)
7.	If required, was sample split for pH analysis?	Yes	No	(N/A)
8.	Were all analyses within holding times at time of receipt?	(Yes)	No	
9.	Verify sample date, time and sampler name	(Yes)	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2 / ____ / ____ / ____ / ____
   Acceptable is above freezing to 6 C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 7591004074

3.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	
5.	Were sample custody seals intact?	Yes	No	(N/A)

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	(Yes)	No		
2.	Did bottle labels correspond with the client's ID's?	(Yes)	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	(Yes)	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	(N/A)	
5.	Have rush or project due dates been checked and accepted?	Yes	No	(N/A)	
6.	Were all analyses within holding times at time of receipt?	(Yes)	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): lle

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:
   Resolution:

2. Person Contacted: _____
   Initiated By: _____
   Problem:
   Resolution:

(Please use the back of this sheet for additional contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2344022
cda 06/30/2023 15:49:09
VI 2344022

nc

Goble netcher

FGL
ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

August 3, 2023

Lab No. : **VI 2344461**
Customer No. : **4018505**

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Laboratory Report

Introduction: This report package contains a total of 11 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(8 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
D1	07/11/2023	07/11/2023	VI 2344461-001	AGW
D2	07/11/2023	07/11/2023	VI 2344461-002	AGW
D3	07/11/2023	07/11/2023	VI 2344461-003	AGW
H1	07/11/2023	07/11/2023	VI 2344461-004	AGW
H2	07/11/2023	07/11/2023	VI 2344461-005	AGW
H3	07/11/2023	07/11/2023	VI 2344461-006	AGW
G1	07/11/2023	07/11/2023	VI 2344461-007	AGW
BR31	07/11/2023	07/11/2023	VI 2344461-008	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)

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

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: 2023-08-03

Page 2 of 11

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-001
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:33
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : D1
Project : W-6 Goyenetche

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:46	lcr
Nitrate Nitrogen	2.3	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:29	lfs
Nitrogen, Total as Nitrogen	2.3	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	18:46	lcr
Nitrate + Nitrite as N	2.3	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:29	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:46	lcr
Conductivity	434	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	17:40	amm
Solids, Total Dissolved (TDS)	250	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

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

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

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

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-002
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:28
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : D2
Project : W-6 Goyenetche

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:49	lcr
Nitrate Nitrogen	1.0	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:31	lfs
Nitrogen, Total as Nitrogen	1	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	18:49	lcr
Nitrate + Nitrite as N	1.0	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:31	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:49	lcr
Conductivity	228	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	16:54	amm
Solids, Total Dissolved (TDS)	120	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

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

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

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

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-003
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:22
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : D3
Project : W-6 Goyenetche

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	1.4	0.5	mg/L		1		07/28/2023	08:46	sta	EPA 351.2	07/31/2023	19:22	lcr
Nitrate Nitrogen	2.9	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:34	lfs
Nitrogen, Total as Nitrogen	4.3	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	19:22	lcr
Nitrate + Nitrite as N	2.9	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:34	lfs
Kjeldahl Nitrogen	1.4	0.5	mg/L		1		07/28/2023	08:46	sta	EPA 351.2	07/31/2023	19:22	lcr
Conductivity	365	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	19:40	amm
Solids, Total Dissolved (TDS)	200	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

DQF Flags Definition:

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

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

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-004
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:06
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : H1
Project : W-6 Goyenetche

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	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:42	lcr
Nitrate Nitrogen	6.8	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:37	lfs
Nitrogen, Total as Nitrogen	6.8	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	18:42	lcr
Nitrate + Nitrite as N	6.8	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:37	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:42	lcr
Conductivity	624	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	19:48	amm
Solids, Total Dissolved (TDS)	370	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

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

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

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

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-005
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:17
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : H2
Project : W-6 Goyenetche

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	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:39	lcr
Nitrate Nitrogen	8.6	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:39	lfs
Nitrogen, Total as Nitrogen	8.6	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	18:39	lcr
Nitrate + Nitrite as N	8.6	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:39	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:39	lcr
Conductivity	745	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	15:44	amm
Solids, Total Dissolved (TDS)	460	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

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

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

Page 7 of 11

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

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-006
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:11
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : H3
Project : W-6 Goyenetche

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	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:28	lcr
Nitrate Nitrogen	0.7	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:42	lfs
Nitrogen, Total as Nitrogen	0.7	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	18:28	lcr
Nitrate + Nitrite as N	0.7	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:42	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:28	lcr
Conductivity	345	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	15:50	amm
Solids, Total Dissolved (TDS)	200	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

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

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

Page 8 of 11

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

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-007
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:39
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : G1
Project : W-6 Goyenetche

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:51	lcr
Nitrate Nitrogen	4.2	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:44	lfs
Nitrogen, Total as Nitrogen	4.2	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	18:51	lcr
Nitrate + Nitrite as N	4.2	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:44	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:51	lcr
Conductivity	526	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	15:40	amm
Solids, Total Dissolved (TDS)	310	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

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

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

Page 9 of 11

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

August 3, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Lab No. : VI 2344461-008
Customer No. : 4018505

Sampled On : July 11, 2023 at 06:01
Sampled By : Bruce & Noreen
Received On : July 11, 2023 at 11:38
Matrix : Ag Water

Description : BR31
Project : W-6 Goyenetche

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	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:44	lcr
Nitrate Nitrogen	6.4	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:57	lfs
Nitrogen, Total as Nitrogen	6.4	0.5	mg/L		1		07/28/2023	08:46	sta	Calc.	07/31/2023	18:44	lcr
Nitrate + Nitrite as N	6.4	0.4	mg/L		1		07/12/2023	13:00	lfs	SM 4500-NO3 F	07/12/2023	14:57	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/28/2023	08:46	sta	EPA 351.2	07/31/2023	18:44	lcr
Conductivity	656	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	18:04	amm
Solids, Total Dissolved (TDS)	400	20	mg/L		1		07/13/2023	11:00	ctl	SM 2540 C	07/14/2023	11:00	ctl

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

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

Page 10 of 11

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

August 3, 2023
Livingston Dairy Consulting, Inc.

Lab No. : VI 2344461
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344461-007)	Dup	umhos/cm		0.6%	5	
		(VI 2344444-001)	Dup	umhos/cm		0.6%	5	
		(CC 2382229-003)	Dup	umhos/cm		0.2%	5	
		(SP 2311840-005)	Dup	umhos/cm		0%	5	
Solids, Total Dissolved	2540CE	07/13/2023:207664CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	96.6%	90-110	
		(STK2339157-001)	Dup	mg/L		1.07%	5	
		(STK2339157-001)	Dup	mg/L		0.9%	5	
			Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	101%	90-110	
		(SP 2311803-001)	Dup	mg/L		0.03%	5	
		(SP 2311803-001)	Dup	mg/L		1%	5	
Nitrogen, Total Kjeldahl	351.2	07/28/2023:208341STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	94.1%	73-124	
			MS	mg/L	12.00	92.8%	54-136	
		(SP 2311944-001)	MSD	mg/L	12.00	91.6%	54-136	
			MSRPD	mg/L		1.3%	≤27	
			MS	mg/L	12.00	92.0%	54-136	
		(SP 2311944-002)	MSD	mg/L	12.00	90.6%	54-136	
			MSRPD	mg/L		1.4%	≤27	
			Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	94.9%	73-124	
			MS	mg/L	12.00	94.6%	54-136	
		(SP 2311944-003)	MSD	mg/L	12.00	94.6%	54-136	
			MSRPD	mg/L		0.0%	≤27	
			MS	mg/L	12.00	93.8%	54-136	
		(SP 2311944-004)	MSD	mg/L	12.00	92.6%	54-136	
			MSRPD	mg/L		1.2%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/12/2023:207621LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	101%	80-120	
			MS	mg/L	5.609	96.6%	66-125	
		(SP 2311816-001)	MSD	mg/L	5.609	96.5%	66-125	
			MSRPD	mg/L		0.0%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/12/2023:207621LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	101%	80-120	
			MS	mg/L	5.609	96.6%	66-125	
		(SP 2311816-001)	MSD	mg/L	5.609	96.5%	66-125	
			MSRPD	mg/L		0.0%	≤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 analyted. 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.

Page 11 of 11

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

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

Special

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 2)

42086:04/01/2023

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: **Livingston Dairy Consulting, Inc.**
Address: Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Phone: (559)687-1440 Fax:
Contact Person: Noreen Livingston
Project Name: **W-6** Goyenetche
Purchase Order Number:
Quote Number: **VI 20210208-01**

Sampler(s) Bruce & Noreen

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **VI** 234446 4-18505

Method of Sampling: Composite(C) Grab(G)
Type of Sample **SEE REVERSE SIDE**
Potable(P) Non-Potable(NP) Ag Water(AgW)
Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)
Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)
Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)
Bottles/Containers Split Fee 8oz(P)-H2SO4

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling	Type of Sample	Potable	Bacti Type	Bacti Reason	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Bottles/Containers Split Fee 8oz(P)-H2SO4
1	D1	7/11/23	6:33 AM	G	AgW	NP			1	1
2	D2	7/11/23	6:28 AM	G	AgW	NP			1	1
3	D3	7/11/23	6:22 AM	G	AgW	NP			1	1
4	H1	7/11/23	6:04 AM	G	AgW	NP			1	1
5	H2	7/11/23	6:17 AM	G	AgW	NP			1	1
6	H3	7/11/23	6:11 AM	G	AgW	NP			1	1
7	G1	7/11/23	6:39 AM	G	AgW	NP			1	1
8	BR31	7/11/23	6:01 AM	G	AgW	NP			1	1
9				G					1	1
10				G					1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[illegible]	7/11/23	11:38	ADH	7/11/23	1710	[illegible]	7/12/23	1210
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
ADH	7/11/23	1138	[illegible]	7/11/23	1710	[illegible]	7/12/23	1210

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: 7.4 / 7.4 / ____ / ____ / ____

Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	VOAs checked for Headspace?	Yes	No	N/A
6.	Were sample custody seals intact?	Yes	No	N/A
7.	If required, was sample split for pH analysis?	Yes	No	N/A
8.	Were all analyses within holding times at time of receipt?	Yes	No	
9.	Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): DH

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 5 / 6 / 4 / 2 / ____

Acceptable is above freezing to 6 C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:
D3T45137, D3T45395, D3T45146, D3T45133

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	Yes	No		
2.	Did bottle labels correspond with the client's ID's?	Yes	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	N/A	
5.	Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6.	Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): JL

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:
   Resolution:

2. Person Contacted:_____
   Initiated By:_____
   Problem:
   Resolution:

(Please use the back of this sheet for additional contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2344461
iv 07/12/2023 09:05:26
VI 2344461

2023 KERN RIVER - CANAL RESULTS

Check #1

LOCATION OF TESTS

IRRIGATION WATER ANALYSIS
ALL CONSTITUENTS P.P.M. (MGN/LITER)

DATE OF TESTING	LABS USED	LAB NUM.	u/g L ARSENIC	mg/L CALCIUM	mg/L MAGNESIUM	mg/L SODIUM	mg/L POTASSIUM	mg/L HYDROXIDE	mg/L CARBONATE	mg/L BICARBONATE	mg/L CHLORIDE	mg/L FLUORIDE	mg/L SULFATE	mg/L NO 3 NITRATE	mg/L NO 3-N NITRATE	mg/L PHOSPATE	Std Units PH	umho/cm EC @ 25 C	mg/L TOTAL DISSOLVED SOLIDS	mg/L TOTAL HARDNESS AS CACO3	mg/L BORON	Ratio SAR OF WATER	% ESP OF SOIL	lb/ac-ft GYP REQ.	Std Units PHC	Ratio ADJ SAR
02/23/22	OEC	2201203-06	None Det.	21.00	3.40	130.00	4.10	None Det.	None Det.	180.0	86.0	0.53	9.2	None Det.	None Det.	None Det.	7.40	660.0	430.00	67.0	0.76	8.70	8.90	538.0	6.81	7.20
03/15/22	OEC	2201604-06	None Det.	21.00	3.30	120.00	3.90	None Det.	None Det.	180.0	94.0	0.52	8.7	None Det.	None Det.	None Det.	7.36	650.0	470.00	67.0	0.79	8.60	8.70	536.0	6.60	7.10
04/06/22	OEC	2202151-06	None Det.	22.00	3.40	120.00	4.10	None Det.	None Det.	170.0	92.0	0.50	16.0	None Det.	None Det.	None Det.	7.43	670.0	440.00	70.0	0.77	8.30	8.40	468.0	7.00	6.70
05/24/22	OEC	2203176-06	None Det.	20.00	3.20	120.00	3.80	None Det.	None Det.	190.0	90.0	0.46	11.0	None Det.	None Det.	None Det.	7.17	680.0	470.00	63.0	0.69	8.60	8.60	585.0	5.38	7.00
06/21/22	OEC	2203781-06	None Det.	18.00	2.80	110.00	3.20	None Det.	None Det.	160.0	81.0	0.46	11.0	None Det.	None Det.	None Det.	7.61	640.0	360.00	56.0	0.61	8.30	8.40	491.0	6.11	6.50
07/19/22	OEC	2204356-06	None Det.	16.00	2.40	70.00	2.40	None Det.	None Det.	100.0	49.0	None Det.	27.0	None Det.	None Det.	None Det.	7.42	480.0	280.00	56.0	0.35	4.10	6.20	211.0	6.93	3.70
08/01/22	OEC	2204664-06	None Det.	19.00	2.80	110.00	3.20	None Det.	None Det.	170.0	95.0	0.54	11.0	None Det.	None Det.	None Det.	7.57	640.0	410.00	58.0	0.62	6.50	8.60	515.0	7.86	6.70
09/01/22	OEC	2205388-07	None Det.	20.00	2.80	120.00	3.40	None Det.	None Det.	170.0	100.0	0.52	16.0	None Det.	None Det.	None Det.	7.44	690.0	460.00	63.0	0.62	7.00	9.20	515.0	7.06	7.40
10/06/22	OEC	2206250-06	None Det.	27.00	2.40	110.00	3.60	None Det.	None Det.	150.0	90.0	None Det.	59.0	None Det.	None Det.	None Det.	7.47	720.0	470.00	76.0	0.52	5.40	7.60	361.0	7.24	5.80
11/03/22	OEC	2206972-06	None Det.	21.00	3.00	120.00	4.00	None Det.	None Det.	190.0	94.0	0.51	16.0	None Det.	None Det.	None Det.	7.20	670.0	420.00	65.0	0.68	6.40	8.50	585.0	5.57	6.90
01/06/23	OEC	2300177-06	None Det.	21.00	3.30	120.00	4.10	None Det.	None Det.	200.0	99.0	0.5	8.4	None Det.	None Det.	None Det.	7.87	710.0		470.00	67.0			0.75	6.20	8.30
02/09/23	OEC	2301037-06	None Det.	22.00	3.80	130.00	4.10	None Det.	None Det.	200.0	100.0	0.46	8.7	None Det.	None Det.	None Det.	8.38	730.0		470.00	71.0			0.72	6.80	9.00
03/03/23	OEC	2301699-06	None Det.	23.00	3.20	110.00	4.10	None Det.	None Det.	180.0	88.0	0.43	9.9	None Det.	None Det.	None Det.	7.88	640.0		450.00	70.0			0.64	5.60	7.70
04/21/23	OEC	2303083-06	None Det.	14.00	2.50	42.00	2.20	None Det.	None Det.	91.0	31.0	None Det.	7.6	None Det.	None Det.	None Det.	7.87	300.0		220.00	47.0			0.26	2.70	4.70
05/19/23	OEC	2303879-06	None Det.	13.00	2.10	37.00	2.40	None Det.	None Det.	78.0	28.0	None Det.	5.9	None Det.	None Det.	None Det.	7.59	260.0		180.00	40.0			None Det	2.50	4.50
06/13/23	OEC	2304531-06	None Det.	11.00	1.80	33.00	2.10	None Det.	None Det.	69.0	23.0	None Det.	5.0	None Det.	None Det.	None Det.	7.00	210.0		150.00	35.0			None Det	2.40	4.40
07/11/23	OEC	2305247-06	None Det.	9.10	1.60	28.00	1.50	None Det.	None Det.	66.0	18.0	None Det.	4.2	None Det.	None Det.	None Det.	7.54	140.0		94.00	29.0			None Det	2.00	4.00
08/03/23	OEC	2306030-04	None Det.	6.20	1.10	11.00	1.10	None Det.	None Det.	37.0	5.7	None Det.	3.2	None Det.	None Det.	None Det.	7.74	93.0		74.00	20.0			None Det	1.10	3.10
09/06/23	OEC	2306941-06	None Det.	10.00	1.80	27.00	1.80	None Det.	None Det.	61.0	16.0	None Det.	4.7	None Det.	None Det.	None Det.	7.52	180.0		120.00	32.0			None Det	2.00	4.00
10/03/23	OEC	2307864-06	None Det.	14.00	2.30	49.00	2.00	None Det.	None Det.	88.0	37.0	None Det.	8.7	None Det.	None Det.	None Det.	7.28	320.0		200.00	45.0			0.31	3.20	5.20

Check #5

LOCATION OF TESTS

IRRIGATION WATER ANALYSIS
ALL CONSTITUENTS P.P.M. (MGN/LITER)

DATE OF TESTING	LABS USED	LAB NUM.	u/g L ARSENIC	mg/L CALCIUM	mg/L MAGNESIUM	mg/L SODIUM	mg/L POTASSIUM	mg/L HYDROXIDE	mg/L CARBONATE	mg/L BICARBONATE	mg/L CHLORIDE	mg/L FLUORIDE	mg/L SULFATE	mg/L NO 3 NITRATE	mg/L NO 3-N NITRATE	mg/L PHOSPATE	Std Units PH	umho/cm EC @ 25 C	mg/L TOTAL DISSOLVED SOLIDS	mg/L TOTAL HARDNESS AS CACO3	mg/L BORON
02/23/22	OEC	2201203-0	None Det.	10.00	1.50	92.00	1.90	None Det.	None Det.	120.0	57.0	0.50	13.0	None Det.	None Det.	None Det.	8.05	480.0	290.00	32.0	0.40
03/15/22	OEC	2201604-0	None Det.	16.00	2.40	110.00	3.00	None Det.	None Det.	160.0	77.0	0.51	9.3	None Det.	None Det.	None Det.	7.87	550.0	380.00	50.0	0.61
04/06/22	OEC	2202151-0	None Det.	7.10	0.84	81.00	1.30	None Det.	None Det.	110.0	44.0	0.53	16.0	None Det.	None Det.	None Det.	8.55	390.0	260.00	21.0	0.33
05/24/22	OEC	2203176-0	None Det.	12.00	1.60	93.00	2.00	None Det.	None Det.	130.0	65.0	0.47	16.0	None Det.	None Det.	None Det.	7.67	520.0	350.00	37.0	0.42
06/21/22	OEC	2203781-0	None Det.	6.40	0.79	76.00	0.96	None Det.	None Det.	97.0	46.0	0.44	13.0	None Det.	None Det.	None Det.	8.58	400.0	250.00	19.0	0.26
07/19/22	OEC	2204356-0	None Det.	15.00	1.90	68.00	1.90	None Det.	None Det.	110.0	46.0	0.40	23.0	None Det.	None Det.	None Det.	7.85	450.0	280.00	45.0	0.30
08/01/22	OEC	2204664-0	None Det.	11.00	1.60	91.00	1.90	None Det.	None Det.	130.0	66.0	0.53	12.0	None Det.	None Det.	None Det.	8.00	500.0	300.00	35.0	0.40
09/01/22	OEC	2205388-0	None Det.	13.00	1.60	93.00	2.10	None Det.	None Det.	130.0	75.0	0.51	16.0	None Det.	None Det.	None Det.	7.62	540.0	350.00	39.0	0.42
10/06/22	OEC	2206250-0	None Det.	21.00	1.50	86.00	2.40	None Det.	None Det.	110.0	68.0	None Det.	58.0	None Det.	None Det.	None Det.	7.93	600.0	350.00	59.0	0.33
11/03/22	OEC	2206972-0	None Det.	15.00	2.10	100.00	3.10	None Det.	None Det.	150.0	75.0	0.54	14.0	None Det.	None Det.	None Det.	7.68	550.0	350.00	47.0	0.51

Livingston Dairy Consulting, Inc.

1635 E. Prosperity Ave. Ste. B
Tulare, CA 93274
559-687-1440

Sunday, April 14, 2024

Re: 2023 NMP
Goyenetche Dairy, LLC WDID 5D155073001
6041 Brandt Road Buttonwillon, CA 93206

Enclosed is the 2023/2024 Nutrient Budget for your facility to comply with the California Regional Water Quality Control Board General Oder No. R5-2007-0035.

***2023 Whole Farm Nitrogen Balance**

The whole farm nitrogen balance for the crop year 2022 was **0.90**
Nitrogen Summary will show the balances for each field and for the whole farm.

***Ranges for the Whole Farm Nitrogen Balance**

Factor	Status	Evaluation
> 1.65	Excessive	Too much nitrogen applied
1.4 - 1.65	Slightly High	Nitrogen is satisfactory to slightly high
0.9 - 1.4	Normal	Normal to slightly low
< 0.9	Low	Low nitrogen status, additional nitrogen needed

***Nutrient Management Plan/ Nutrient Budget Certification**

This Nutrient Budget was prepared by a Certified Crop Advisor as required by the California Regional Water Quality Control Board.

Butch Brazil
Certified Crop Advisor #35629

This Nutrient Management Plan / Nutrient Budget is based on samples collected and analyzed by a third party laboratory. This Certified Crop Advisor was not involved in oversight of outside laboratory sample collection, transportation, or analyses. Interpretation of the data is based on submitted information. Where data was incomplete, book values and / or historical data was used. The third party laboratory or Certified Crop Advisor was not involved with the agronomic growth of the crops and the Nutrient Budget is based on information provided by the owner.