Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: Joe Mama's Heifer Ranch (Formerly Avila Family Dairy)

Physical address of dairy:

13644 Avenue 18 1/2	Chowchilla	Madera	93610
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 10/15/1990

Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0023-0100-0014-0000

B. OPERATORS

Bhajal, Sukhvinder

Operator name: Bhajal, Sukhvinder Telephone no.: (559) 679-5482 (Landline) (559) 827-6835 (Cellular)

5120 W Cypress AVE	Visalia	CA	93277
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Bhajal, Sukhvinder

Legal owner name: Bhajal, Sukhvinder Telephone no.: (559) 679-5482 (Landline) (559) 827-6835 (Cellular)

5120 W Cypress AVE	Visalia	CA	93277
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	0	0	0	0
Number under roof	0	0	0	0	0	0
Maximum number	0	0	0	0	0	0
Average number	0	0	0	0	0	0
Avg live weight (lbs)	0	0	0	0		

Predominant milk cow breed: Holstein

Average milk production: 1 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 1.00 *tons per reporting period*

Total nitrogen from manure: 1.00 *lbs per reporting period* After ammonia losses (30% loss applied): 0.70 *lbs per reporting period*

Total phosphorus from manure: 1.00 *lbs per reporting period*

Total potassium from manure: 1.00 *lbs per reporting period*

Total salt from manure: 0.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: _____ *gallons*

Total nitrogen generated: _____ *lbs*

Total phosphorus generated: _____ *lbs*

Total potassium generated: _____ *lbs*

Total salt generated: _____ *lbs*

	0	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	0	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
CWD Canal	Surface water
IW 2	Ground water
IW 3	Ground water
IW 7	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1 (O-1)	38	38	1	none	X023-X100-X014-XXXX
2 (O-2A)	77	77	1	none	X023-X100-X015-XXXX
3 (O-2B)	77	77	1	none	X023-X100-X015-XXXX
Totals for areas that were used for application					
Totals for areas that were not used for application	192	192	3		
Land application area totals	192	192	3		

B. CROPS AND HARVESTS

1 (O-1)

Field name: 1 (O-1)

10/07/2023: Pistachios

Crop: Pistachios Acres planted: 38 Plant date: 10/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 *ton*	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.50	140.00	15.00	125.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

2 (O-2A)

Field name: 2 (O-2A)

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2 (O-2A)

10/07/2023: Pistachios

Crop: Pistachios Acres planted: 77 Plant date: 10/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 *ton*	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.50	140.00	15.00	125.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

3 (O-2B)

Field name: 3 (O-2B)

10/08/2023: Pistachios

Crop: Pistachios Acres planted: 77 Plant date: 10/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 *ton*	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.50	140.00	15.00	125.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 (O-1) - 10/07/2023: Pistachios

Field name: 1 (O-1)

Crop: Pistachios Plant date: 10/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/07/2023	Microsprinkler	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	1.38	0.00	0.00	35.91	6,289,920.00 *gal*
Application event totals		1.38	0.00	0.00	35.91	

2 (O-2A) - 10/07/2023: Pistachios

Field name: 2 (O-2A)

Crop: Pistachios Plant date: 10/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/07/2023	Microsprinkler	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	1.38	0.00	0.00	35.90	12,741,120.00 *gal*
Application event totals		1.38	0.00	0.00	35.90	

3 (O-2B) - 10/08/2023: Pistachios

Field name: 3 (O-2B)

Crop: Pistachios Plant date: 10/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

3 (O-2B) - 10/08/2023: Pistachios

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/08/2023	Microsprinkler	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal	Surface water	1.40	0.00	0.00	36.36	12,902,400.00 *gal*
Application event totals		1.40	0.00	0.00	36.36	

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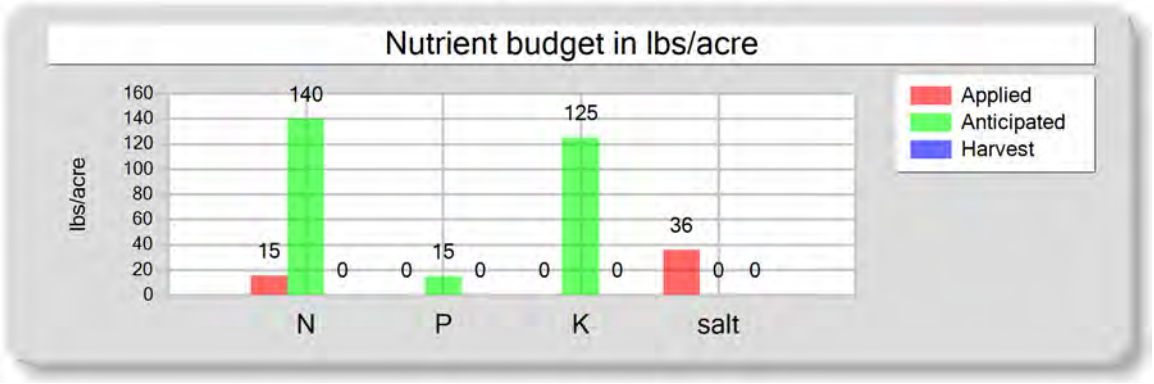
B. NUTRIENT BUDGET

1 (O-1) - 10/07/2023: Pistachios

Field name: 1 (O-1) Crop: Pistachios Plant date: 10/07/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.38	0.00	0.00	35.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	15.38	0.00	0.00	35.91
Anticipated crop nutrient removal	140.00	15.00	125.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	15.38	0.00	0.00	35.91
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
6,289,920.00	*gallons*
231.64	*acre-inches*
6.10	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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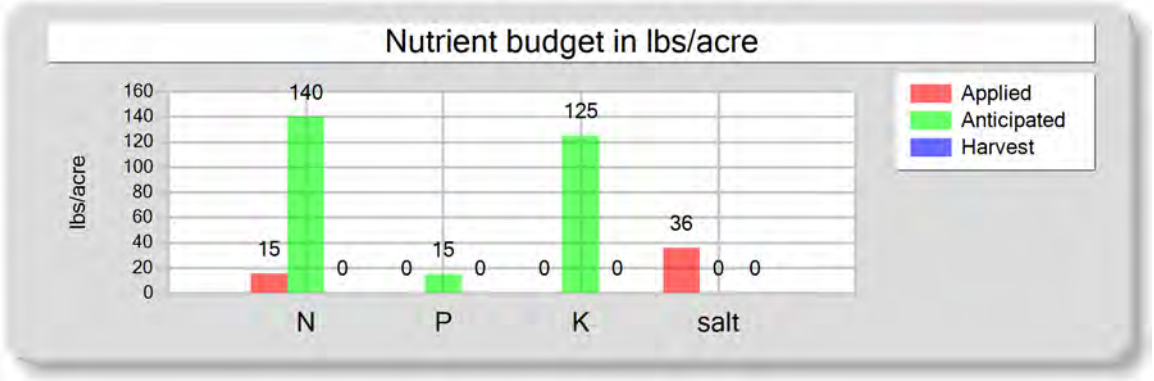
2 (O-2A) - 10/07/2023: Pistachios

Field name: 2 (O-2A) Crop: Pistachios Plant date: 10/07/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.38	0.00	0.00	35.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	15.38	0.00	0.00	35.90
Anticipated crop nutrient removal	140.00	15.00	125.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	15.38	0.00	0.00	35.90
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
12,741,120.00	*gallons*
469.21	*acre-inches*
6.09	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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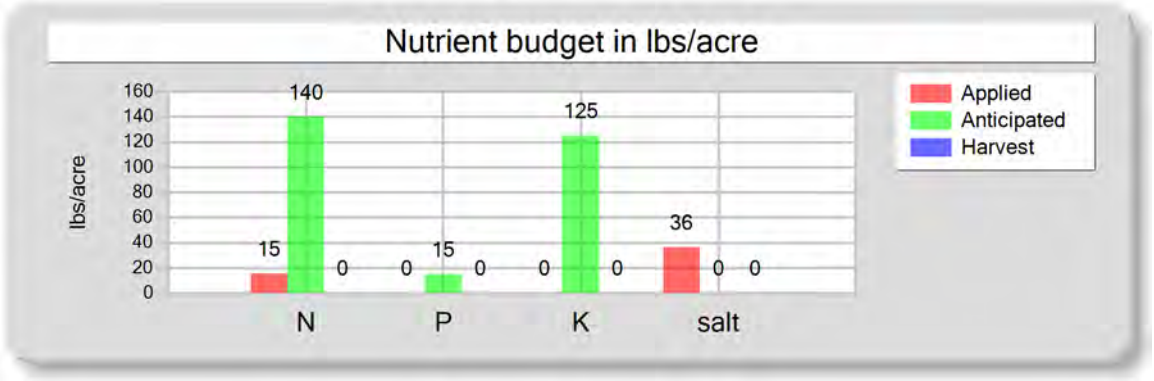
3 (O-2B) - 10/08/2023: Pistachios

Field name: 3 (O-2B) Crop: Pistachios Plant date: 10/08/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.40	0.00	0.00	36.36
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	15.40	0.00	0.00	36.36
Anticipated crop nutrient removal	140.00	15.00	125.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	15.40	0.00	0.00	36.36
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
12,902,400.00	*gallons*
475.15	*acre-inches*
6.17	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

No manure analyses entered.

B. PROCESS WASTEWATER ANALYSES

No process wastewater analyses entered.

C. FRESH WATER ANALYSES

CWD Canal

Surface Water

Sample description: Surface Water

Sample date: 09/05/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.00	0.00	0.10								22.00	26
DL	1.00	0.50	0.10								10.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

No plant tissue analyses entered.

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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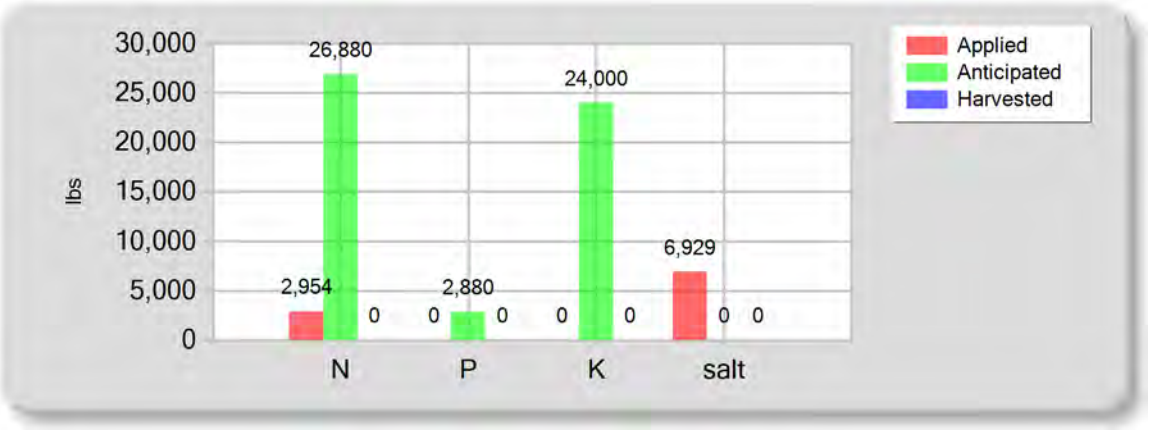
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	266.48	0.00	0.00	6,928.60
Atmospheric deposition	2,688.00	0.00	0.00	0.00
Total nutrients applied	2,954.48	0.00	0.00	6,928.60
Anticipated crop nutrient removal	26,880.00	2,880.00	24,000.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	2,954.48	0.00	0.00	6,928.60
Applied to removed ratio	0.00	0.00	0.00	0.00

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL



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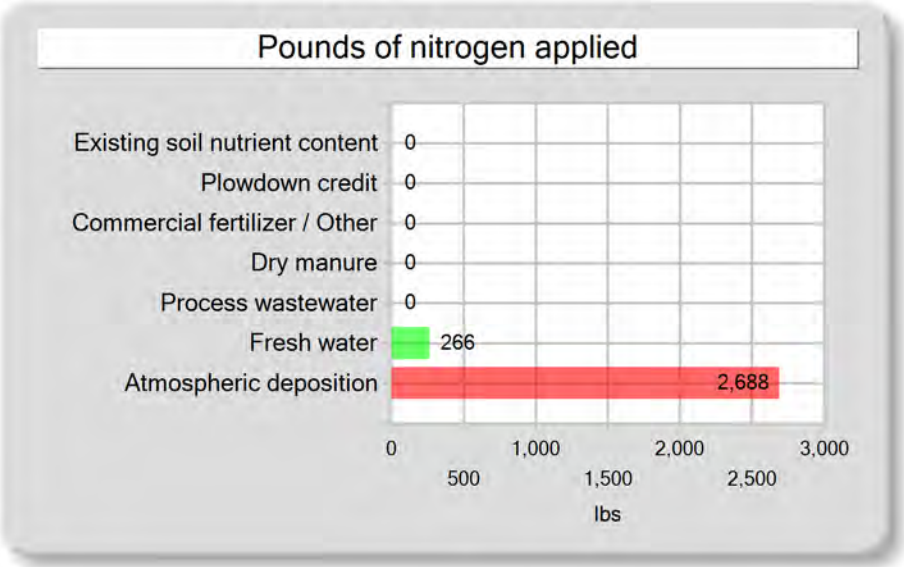
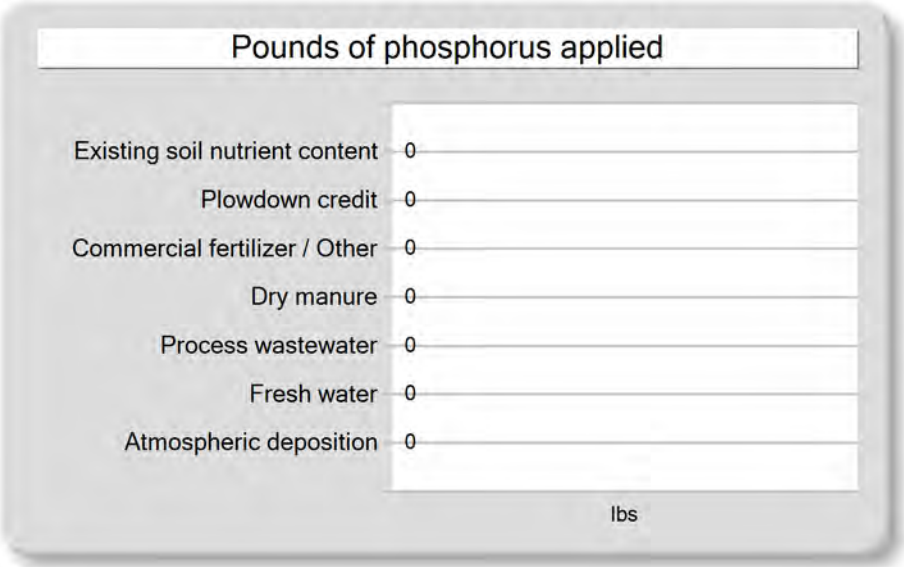
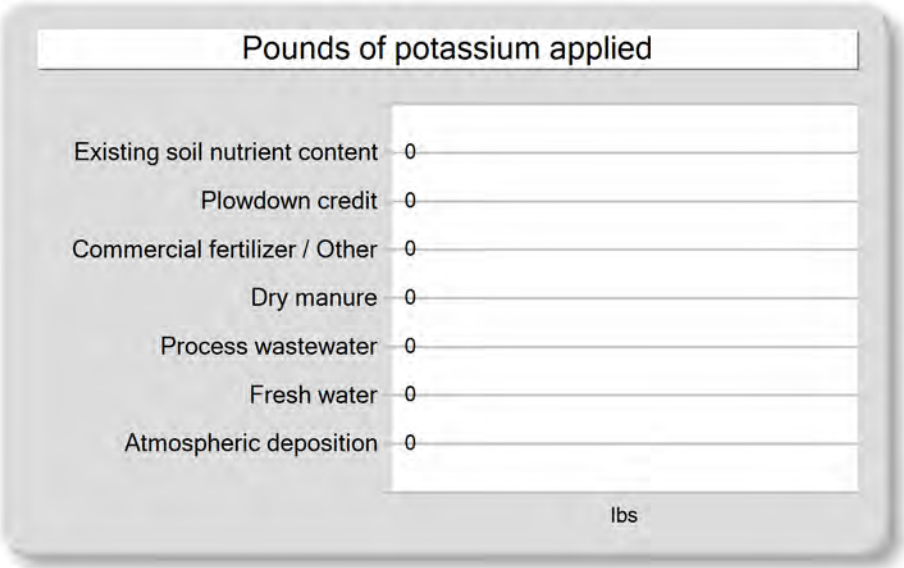
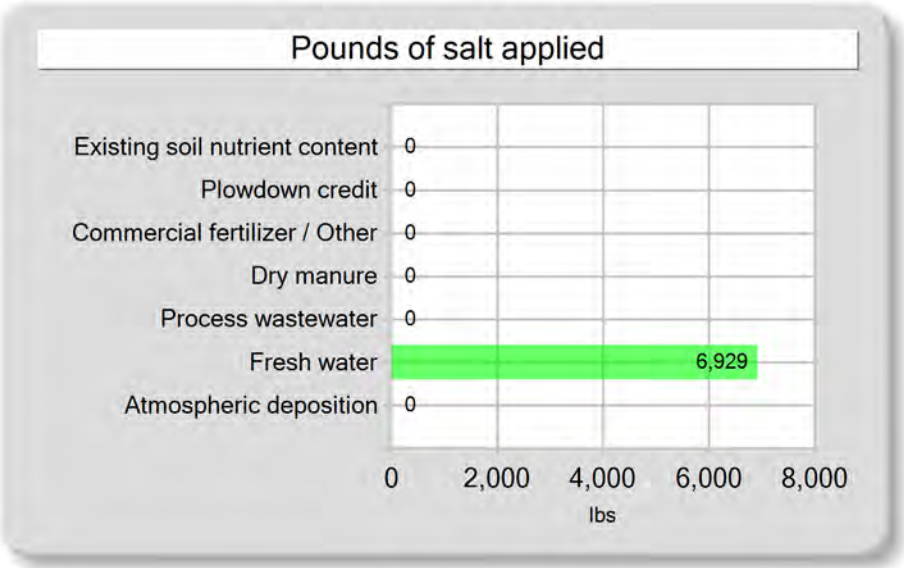
C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

No manure or process wastewater discharges occurred during the reporting period.

B. STORM WATER DISCHARGES

The following 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 stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period?	No
Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	Yes
Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	Yes

B. EXPORT AGREEMENT STATEMENT

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

ADDITIONAL NOTES

A. NOTES

No animals were on site in 2023, with all animals being removed April 2022 by previous owner. Three fields (O-1, O-2A, & O-2B) were bought with the facility by the new owner. These fields were fallow in 2023 in preparation of planting pistachios, which were planted Fall 2023.

Irrigation wells were not used in 2023 due to the fields being fallow during the cropping season. Pistachios received received one irrigation at planting from CWD Canal. All irrigation wells and the domestic well will be taken in 2024 by new owner and operator. No manure or wastewater was generated, applied, or exported from the site. Due to no nutrients being generated or utilized throughout the year, no samples were taken in 2023.

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Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

DocuSigned by:
S Bhajal
2E716693536347A...

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Sukhvinder Bhajal	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
7/9/2024	
DATE	DATE

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ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment
Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

Manure/Process Wastewater Tracking Manifests
Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents
Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring
Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring
Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

DELLAVALLE™
LABORATORY INC

Mandala Heifer Facility (H-2)
P.O Box 429
Chowchilla, CA 93610

Account# 00-0022777
Account Manager: Ben Nydam
Submitted By: Edgar De Jager

Received: 09/05/2023 15:40
Reported: 09/11/2023 10:18

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0358-01	CWD Canal	Ag Water	F&R Ag	Canal	09/05/2023 9:41

Default Cooler Temperature on Receipt °C: 7.9
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
LABORATORY INC

Mandala Heifer Facility (H-2)
P.O Box 429
Chowchilla, CA 93610

Account# 00-0022777
Account Manager: Ben Nydam
Submitted By: Edgar De Jager

Received: 09/05/2023 15:40
Reported: 09/11/2023 10:18

Sample Results

Sample: CWD Canal
23I0358-01 (Water)

Sampled: 9/5/2023 9:41
Sampled By: F&R Ag

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.02**	mmhos/cm	0.01	1		09/06/23 14:18	SM 2510 B		BEI0061
Electrical Conductivity umhos	**22.2**	umhos/cm	10.0	1		09/06/23 14:18	SM 2510 B		BEI0061
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	09/06/23 15:53	EPA 300.0		BEI0045
pH	**7.5**	units	1.0	1		09/06/23 14:18	SM 4500-H+	H	BEI0061
Total Filterable Solids (TDS)	**26.0**	mg/L	10.0	1		09/07/23 14:07	SM 2540 C		BEI0082
Temperature	**25.0**	°C	0.0	1		09/06/23 14:18	SM 2510 B		BEI0061
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/07/23 10:07	SM 4500-NH3 C		BEI0092
Total Nitrogen	ND	mg/L	1.00	1		09/07/23 10:07	SM 4500-NH3 C		BEI0092

DELLAVALLE™
LABORATORY INC

Mandala Heifer Facility (H-2)
P.O Box 429
Chowchilla, CA 93610

Account# 00-0022777
Account Manager: Ben Nydam
Submitted By: Edgar De Jager

Received: 09/05/2023 15:40
Reported: 09/11/2023 10:18

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0045										
Blank (BEI0045-BLK1)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0045-BLK2)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0045-BLK3)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEI0045-BS1)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
LCS (BEI0045-BS2)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEI0045-DUP1)		**Source: 23I0210-01**			Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	0.5		0.1	mg/L		0.5			0.186	10
Duplicate (BEI0045-DUP2)		**Source: 23I0376-01**			Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	1.3		0.1	mg/L		1.3			0.853	10
Matrix Spike (BEI0045-MS1)		**Source: 23I0210-01**			Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	5.7		0.1	mg/L	5.000	0.5	102	90-110		
Matrix Spike (BEI0045-MS2)		**Source: 23I0376-01**			Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	6.5		0.1	mg/L	5.000	1.3	104	90-110		
Reference (BEI0045-SRM1)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.3	90-110		
Reference (BEI0045-SRM2)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.6	90-110		
Reference (BEI0045-SRM3)					Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		100	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0061										
Blank (BEI0061-BLK1)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.0		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEI0061-BLK2)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
pH	6.2		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0061-BLK3)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
pH	6.4		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEI0061-DUP1)		**Source: 23I0355-01**			Prepared: 9/5/2023 Analyzed: 9/6/2023					
Electrical Conductivity	0.68		0.01	mmhos/cm		0.68			1.34	10
pH	7.6		1.0	units		7.6			0.528	10
Electrical Conductivity umhos	676		10.0	umhos/cm		685			1.34	10
Duplicate (BEI0061-DUP2)		**Source: 23I0372-01**			Prepared: 9/5/2023 Analyzed: 9/6/2023					
Electrical Conductivity	1.63		0.01	mmhos/cm		1.64			0.519	10
pH	7.3		1.0	units		7.3			0.00	10
Electrical Conductivity umhos	1630		10.0	umhos/cm		1640			0.519	10
Reference (BEI0061-SRM1)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
Electrical Conductivity	505			umhos/cm	538.0		93.8	90-110		
Reference (BEI0061-SRM2)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
pH	5.8			units	5.820		100	28178-101.7		
Reference (BEI0061-SRM3)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
Electrical Conductivity	953			umhos/cm	1000		95.3	90-110		
Electrical Conductivity umhos	953			umhos/cm	1000		95.3	90-110		
Reference (BEI0061-SRM4)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
Electrical Conductivity	956			umhos/cm	1000		95.6	90-110		
Electrical Conductivity umhos	956			umhos/cm	1000		95.6	90-110		
Reference (BEI0061-SRM5)					Prepared: 9/5/2023 Analyzed: 9/6/2023					
Electrical Conductivity	960			umhos/cm	1000		96.0	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0061 (Continued)										
Reference (BEI0061-SRM5)					Prepared: 9/5/2023	Analyzed: 9/6/2023				
Electrical Conductivity umhos	960			umhos/cm	1000		96.0	90-110		
Reference (BEI0061-SRM6)					Prepared: 9/5/2023	Analyzed: 9/6/2023				
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0061-SRM7)					Prepared: 9/5/2023	Analyzed: 9/6/2023				
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0061-SRM8)					Prepared: 9/5/2023	Analyzed: 9/6/2023				
pH	4.0			units	4.000		100	97.5-102.5		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0082										
Blank (BEI0082-BLK1)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEI0082-BS1)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Total Filterable Solids (TDS)	30.0		10.0	mg/L	2000		1.50	0-200		
Duplicate (BEI0082-DUP1)		**Source: 23I0355-02**			Prepared: 9/6/2023 Analyzed: 9/7/2023					
Total Filterable Solids (TDS)	300		10.0	mg/L		300			0.00	10
Duplicate (BEI0082-DUP2)		**Source: 23I0371-01**			Prepared: 9/6/2023 Analyzed: 9/7/2023					
Total Filterable Solids (TDS)	3680		10.0	mg/L		3680			0.00	10
Reference (BEI0082-SRM1)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Total Filterable Solids (TDS)	340			mg/L	325.0		105	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0092										
Blank (BEI0092-BLK1)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEI0092-BLK2)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEI0092-BS1)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	5.95		1.00	mg/L	5.709		104	90-110		
LCS (BEI0092-BS2)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	5.67		1.00	mg/L	5.709		99.3	90-110		
Duplicate (BEI0092-DUP1)		**Source: 23I0358-01**			Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BEI0092-DUP2)		**Source: 23I0371-01**			Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	400		3.50	mg/L		403			0.705	10
Matrix Spike (BEI0092-MS1)		**Source: 23I0358-01**			Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	8.74		1.40	mg/L	7.992	ND	109	90-110		
Matrix Spike (BEI0092-MS2)		**Source: 23I0371-01**			Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	410		3.50	mg/L	9.990	403	68.1	90-110		
Reference (BEI0092-SRM1)					Prepared: 9/6/2023 Analyzed: 9/7/2023					
Kjeldahl Nitrogen (TKN), Total	23.7			mg/L	23.80		99.7	90-110		

09/05/23 15:40 2310358

DELLAVALLE LABORATORY, INC.

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

Purchase Order No | Bill To: 22777 Acct # | 08 Cons #

Results Need By

No. Samples: 1 No of Bottles: 2

Water Type: [ ] Drinking Water [ ] Wastewater
[✓] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

Name: Mandala Heifer Facility (H-2)
Address: PO Box 429
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: ddj2x@aol.com; dejagerfarms@gmail.com
COPY TO: ariordan@fragservices.com

REQUESTED BY: Edgar De Jager
PROJECT:
CROP: CANAL

[X] Copy of Chain [X] QA/QC Documents
Sampled By: F&R AG

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

( ) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
(✓) DCW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	CWD CANAL	9/5/23	0941	7.9	
2					
3					
4					
5					
6					
7					
8					
9					
10					

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

Out of Temperature Compliance
Proceed: [✓] Yes [ ] No
Approved By: AR (Client)
Initial and Date: (DLI)

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	9/5/23 0941	9/5/23
Second				
Third				
Fourth	KS	DJ	9.5.23 1540	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[✓] Yes [ ] No

09/05/23 15:40 23I0358

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

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

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

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value	2									
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1									
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

pH Strips
Lot: 10BDH4501 Exp: Jan 2025