A & L WESTERN AGRICULTURAL LABORATORIES, INC.

1311 Woodland Avenue, Suite 1 • Modesto, California 95351 • (209) 529-4080

Report No: 12-284-057

Account No: 4206-D

Send To: WESTERN DAIRY DESIGN
316 W. F STREET, SUITE 100
OAKDALE, CA 95361

Project: 053-13

Submitted by: Jeff Fleming

Date Received: 10/10/2012
Date Reported: 10/17/2012

PATHOGEN ANALYSIS REPORT

Lab Number:	Sample ID:	Total Coliform MPN/100 ml	E.coli MPN/100 mL
63642	MW-1 10/09/12 11:51	>200.5	<1.0
63643	MW-2 10/09/12 1:08	83.1	<1.0
63644	MW-3 10/09/12 2:06	2.0	<1.0

A & L Western Agricultural Laboratories

Robert Butterfield
Laboratory Director

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WATER ANALYSIS REPORT

Analyte:	**Ammonia Nitrogen**	**Nitrate Nitrogen**	**T.D.S.**
Detection Limit:	**0.05 mg/L**	**0.5 mg/L**	**10 mg/L**
Method Detection:	**SM 4500-NH_3 H**	**SM 4500-NH_3 B**	**SM 2540 C**

Lab Number:	Sample Id:	Ammonia Nitrogen mg/L	Nitrate Nitrogen mg/L	T.D.S. Mg/L
63642	MW-1 10/09/12 11:51	0.6	BDL	21621
63643	MW-2 10/09/12 1:08	BDL	26	15302
63644	MW-3 10/09/12 2:06	BDL	BDL	7536

BDL-INDICATED THE LEVEL FOUND IS BELOW THE ESTABLISHED DETECTION LIMIT FOR THAT ANALYTE.

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1311 WOODLAND AVE #1 • MODESTO, CALIFORNIA 95351 • (209) 529-4080 • FAX (209) 529-4736

REPORT NUMBER: 12-284-057 CLIENT: 4206-D

SUBMITTED BY: JEFF FLEMING

SEND TO: WESTERN DAIRY DESIGN ASSOC, INC
316 WEST F STREET, SUITE 100
OAKDALE, CA 95361

GROWER: 053-13

DATE OF REPORT: 10/17/12

IRRIGATION WATER ANALYSIS REPORT

Sample ID	Lab Number	Sodium Na meq/L	Calcium Ca meq/L	Magnesium Mg meq/L	Carbonate CO_3 meq/L	Bicarbonate HCO_3 meq/L	Chloride Cl meq/L	Conductivity E.C. dS/m	pH	Copper Cu ppm	Iron Fe ppm	Manganese Mn ppm	Zinc Zn ppm
MW-1	63642	124.70	97.11	133.60	0.00	5.00	240.90	28.30	7.5				
MW-2	63643	65.53	28.34	46.88	0.00	23.70	75.97	17.20	7.5				
MW-3	63644	37.27	36.28	14.97	0.00	11.75	33.78	8.95	7.6				

Sample ID	Phosphorus P ppm	Potassium K ppm	Nitrate NO_3 ppm	Sulfate SO_4 ppm	Boron B ppm	Dissolved Solids ppm	Adjusted S.A.R.	Langelier Saturation Index
MW-1	0.08	19.5	< 2	2517	2.19	17825	14.13	
MW-2	0.33	21.6	117	2024	9.39	8957	13.06	
MW-3	<0.01	6.6	< 2	1625	6.26	5319	11.37	

NOTES:

This report applies only to the sample(s) tested. Samples are retained a maximum of thirty days after testing.

Mike Buttress, CPAg
A & L WESTERN LABORATORIES, INC.