

Central Valley Dairy Representative Monitoring Program

Year 3 Annual Report (2014)

April 1, 2015

Part VI of VI

Attachment B

Attachment B1.	Summary of Monitoring Well Purging Records (2012-2013)	Part III
Attachment B2.	Water Level Elevation Contour Maps (2012-2013)	Part III
Attachment B3.	Field Sheets from Monthly Monitoring Campaigns	Part IV
Attachment B4.	Laboratory Reports, 2014Q1	Part V
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Attachment B6

Laboratory Reports, 2014Q3

2014Q3

North Area



Date of Report: 08/27/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Brentwood Farms
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418366
Invoice ID: B181758

Enclosed are the results of analyses for samples received by the laboratory on 8/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1418366

Samples were filtered through a 0.45 micron filter for requested analyses.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-18366

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Intact? Yes No Intact? Yes No Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8/14/14 235

Temperature: (A) 1.0 °C / (C) 1.2 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PHA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MM Date/Time: 8/14/14 0000 IS:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1418366-01	COC Number:	---	Receive Date:	08/11/2014 23:15
	Project Number:	---	Sampling Date:	08/11/2014 14:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BRE-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1418366-02	COC Number:	---	Receive Date:	08/11/2014 23:15
	Project Number:	---	Sampling Date:	08/11/2014 13:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BRE-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1418366-03	COC Number:	---	Receive Date:	08/11/2014 23:15
	Project Number:	---	Sampling Date:	08/11/2014 14:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BRE-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418366-01		Client Sample Name: BRE-MW1s, 8/11/2014 2:05:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	21	mg/L	0.10	0.016	EPA-200.7	0.040		1
Dissolved Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	27	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.48	mg/L	1.0	0.10	EPA-200.7	ND	J	2
Bicarbonate Alkalinity as CaCO3	130	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	15	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	6.3	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	16	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	250	mg/L	20	20	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.50	mg/L	0.50	0.13	EPA-351.2	ND	A10	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.33	mg/L	0.15	0.092	EPA-365.4	0.12		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 20:04	JRG	PE-OP1	1	BXH1770
2	EPA-200.7	08/19/14	08/24/14 20:15	JRG	PE-OP1	1	BXH1770
3	SM-2320B	08/12/14	08/12/14 15:26	RML	MET-1	1	BXH0963
4	EPA-300.0	08/12/14	08/12/14 21:03	OLH	IC2	1	BXH1083
5	SM-2540C	08/14/14	08/14/14 12:00	CAD	MANUAL	2	BXH1291
6	EPA-351.2	08/20/14	08/20/14 17:28	JP1	SC-1	2.500	BXH1598
7	EPA-350.1	08/13/14	08/13/14 12:10	JP1	SC-1	1	BXH1093
8	EPA-353.2	08/12/14	08/12/14 09:45	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/18/14	08/19/14 09:09	JP1	SC-1	1	BXH1599

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Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID:	1418366-02	Client Sample Name:	BRE-MW2s, 8/11/2014 1:40:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	24	mg/L	0.10	0.016	EPA-200.7	0.040		1
Dissolved Magnesium	17	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	25	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.59	mg/L	1.0	0.10	EPA-200.7	ND	J	2
Bicarbonate Alkalinity as CaCO3	130	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	15	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	2.8	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	11	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	210	mg/L	20	20	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.53	mg/L	0.50	0.13	EPA-351.2	ND	A10	6
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.56	mg/L	0.15	0.092	EPA-365.4	0.12		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 20:06	JRG	PE-OP1	1	BXH1770
2	EPA-200.7	08/19/14	08/24/14 20:17	JRG	PE-OP1	1	BXH1770
3	SM-2320B	08/12/14	08/12/14 15:50	RML	MET-1	1	BXH0964
4	EPA-300.0	08/12/14	08/12/14 21:16	OLH	IC2	1	BXH1083
5	SM-2540C	08/14/14	08/14/14 12:00	CAD	MANUAL	2	BXH1291
6	EPA-351.2	08/20/14	08/20/14 17:30	JP1	SC-1	2.500	BXH1598
7	EPA-350.1	08/13/14	08/13/14 12:12	JP1	SC-1	1	BXH1093
8	EPA-353.2	08/12/14	08/12/14 09:45	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/18/14	08/19/14 09:11	JP1	SC-1	1	BXH1599

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Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418366-03		Client Sample Name: BRE-MW3s, 8/11/2014 2:40:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	23	mg/L	0.10	0.016	EPA-200.7	0.040		1
Dissolved Magnesium	14	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	24	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.59	mg/L	1.0	0.10	EPA-200.7	ND	J	2
Bicarbonate Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	10	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	2.3	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	8.5	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	180	mg/L	20	20	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.36	mg/L	0.50	0.13	EPA-351.2	ND	J,A10	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.35	mg/L	0.15	0.092	EPA-365.4	0.12		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 20:09	JRG	PE-OP1	1	BXH1770
2	EPA-200.7	08/19/14	08/24/14 20:20	JRG	PE-OP1	1	BXH1770
3	SM-2320B	08/12/14	08/12/14 16:02	RML	MET-1	1	BXH0964
4	EPA-300.0	08/12/14	08/12/14 21:29	OLH	IC2	1	BXH1083
5	SM-2540C	08/14/14	08/14/14 12:00	CAD	MANUAL	2	BXH1291
6	EPA-351.2	08/20/14	08/20/14 17:30	JP1	SC-1	2.500	BXH1598
7	EPA-350.1	08/13/14	08/13/14 12:12	JP1	SC-1	1	BXH1093
8	EPA-353.2	08/12/14	08/12/14 09:51	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/18/14	08/19/14 09:12	JP1	SC-1	1	BXH1599

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Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0963						
Bicarbonate Alkalinity as CaCO3	BXH0963-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH0963-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH0963-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH0964						
Bicarbonate Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1083						
Chloride	BXH1083-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH1083-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1083-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1093						
Ammonia as N	BXH1093-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH1280						
Nitrite as N	BXH1280-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1291						
Total Dissolved Solids @ 180 C	BXH1291-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1598						
Total Kjeldahl Nitrogen	BXH1598-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH1599						
Total Phosphate	BXH1599-BLK1	0.12357	mg/L	0.15	0.092	J
QC Batch ID: BXH1770						
Dissolved Calcium	BXH1770-BLK2	0.040484	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH1770-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH1770-BLK2	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH1770-BLK1	ND	mg/L	1.0	0.10	

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Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1083										
Chloride	BXH1083-BS1	LCS	54.574	50.000	mg/L	109		90 - 110		
Nitrate as N	BXH1083-BS1	LCS	5.4880	5.0000	mg/L	110		90 - 110		
Sulfate	BXH1083-BS1	LCS	108.29	100.00	mg/L	108		90 - 110		
QC Batch ID: BXH1093										
Ammonia as N	BXH1093-BS1	LCS	1.0224	1.0000	mg/L	102		90 - 110		
QC Batch ID: BXH1280										
Nitrite as N	BXH1280-BS1	LCS	0.50385	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXH1291										
Total Dissolved Solids @ 180 C	BXH1291-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXH1598										
Total Kjeldahl Nitrogen	BXH1598-BS1	LCS	1.9272	2.0000	mg/L	96.4		90 - 110		
QC Batch ID: BXH1599										
Total Phosphate	BXH1599-BS1	LCS	3.2039	3.0660	mg/L	104		85 - 115		
QC Batch ID: BXH1770										
Dissolved Calcium	BXH1770-BS2	LCS	9.8776	10.000	mg/L	98.8		85 - 115		
Dissolved Magnesium	BXH1770-BS1	LCS	10.102	10.000	mg/L	101		85 - 115		
Dissolved Sodium	BXH1770-BS2	LCS	10.463	10.000	mg/L	105		85 - 115		
Dissolved Potassium	BXH1770-BS1	LCS	9.4096	10.000	mg/L	94.1		85 - 115		

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Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH0963		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1418261-05	121.25	121.86		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1418261-05	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418261-05	ND	ND		mg/L			10	
QC Batch ID: BXH0964		Used client sample: Y - Description: BRE-MW2s, 08/11/2014 13:40								
Bicarbonate Alkalinity as CaCO3	DUP	1418366-02	126.12	126.73		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1418366-02	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418366-02	ND	ND		mg/L			10	
QC Batch ID: BXH1083		Used client sample: N								
Chloride	DUP	1418389-01	71.291	71.351		mg/L	0.1		10	
	MS	1418389-01	71.291	128.50	50.505	mg/L		113		80 - 120
	MSD	1418389-01	71.291	128.44	50.505	mg/L	0.0	113	10	80 - 120
Nitrate as N	DUP	1418389-01	7.0270	7.0990		mg/L	1.0		10	
	MS	1418389-01	7.0270	12.600	5.0505	mg/L		110		80 - 120
	MSD	1418389-01	7.0270	12.608	5.0505	mg/L	0.1	111	10	80 - 120
Sulfate	DUP	1418389-01	216.99	217.11		mg/L	0.1		10	
	MS	1418389-01	216.99	319.57	101.01	mg/L		102		80 - 120
	MSD	1418389-01	216.99	319.07	101.01	mg/L	0.2	101	10	80 - 120
QC Batch ID: BXH1093		Used client sample: N								
Ammonia as N	DUP	1418324-03	ND	ND		mg/L			10	
	MS	1418324-03	ND	1.1041	1.1111	mg/L		99.4		90 - 110
	MSD	1418324-03	ND	1.1204	1.1111	mg/L	1.5	101	10	90 - 110
QC Batch ID: BXH1280		Used client sample: N								
Nitrite as N	DUP	1418355-01	0.32592	0.32623		mg/L	0.1		10	
	MS	1418355-01	0.32592	0.85222	0.52632	mg/L		100		90 - 110
	MSD	1418355-01	0.32592	0.87002	0.52632	mg/L	2.1	103	10	90 - 110
QC Batch ID: BXH1291		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1418556-02	2260.0	2260.0		mg/L	0		10	
QC Batch ID: BXH1598		Used client sample: N								
Total Kjeldahl Nitrogen	DUP	1418554-02	1.0782	1.0309		mg/L	4.5		20	
	MS	1418554-02	1.0782	3.0325	2.0000	mg/L		97.7		90 - 110
	MSD	1418554-02	1.0782	3.1103	2.0000	mg/L	2.5	102	20	90 - 110
QC Batch ID: BXH1599		Used client sample: Y - Description: BRE-MW1s, 08/11/2014 14:05								
Total Phosphate	DUP	1418366-01	0.33207	0.21310		mg/L	43.6		20	A02
	MS	1418366-01	0.33207	3.4237	3.0660	mg/L		101		80 - 120
	MSD	1418366-01	0.33207	3.3602	3.0660	mg/L	1.9	98.8	20	80 - 120

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXH1770		Used client sample: Y - Description: CRE-MW1s, 08/11/2014 11:40									
Dissolved Calcium	DUP	1418367-01	50.869	51.205		mg/L	0.7		20		
	MS	1418367-01	50.869	59.282	10.204	mg/L		82.4		85 - 115	A03
	MSD	1418367-01	50.869	59.120	10.204	mg/L	0.3	80.9	20	85 - 115	A03
Dissolved Magnesium	DUP	1418367-01	53.008	52.363		mg/L	1.2		20		
	MS	1418367-01	53.008	62.631	10.204	mg/L		94.3		85 - 115	
	MSD	1418367-01	53.008	63.101	10.204	mg/L	0.7	98.9	20	85 - 115	
Dissolved Sodium	DUP	1418367-01	68.218	69.670		mg/L	2.1		20		
	MS	1418367-01	68.218	78.947	10.204	mg/L		105		85 - 115	
	MSD	1418367-01	68.218	78.340	10.204	mg/L	0.8	99.2	20	85 - 115	
Dissolved Potassium	DUP	1418367-01	1.7479	1.7940		mg/L	2.6		20		
	MS	1418367-01	1.7479	12.288	10.204	mg/L		103		85 - 115	
	MSD	1418367-01	1.7479	12.098	10.204	mg/L	1.6	101	20	85 - 115	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Brentwood Farms
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.



Date of Report: 08/27/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Creekside Silveira Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418367
Invoice ID: B181759

Enclosed are the results of analyses for samples received by the laboratory on 8/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1418367

Samples were filtered through a 0.45 micron filter for requested analyses.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-18367

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO

Emissivity: 0.92 Container: PE Thermometer ID: 207 Date/Time: 8/11/14 235

Temperature: (A) 0.6 °C / (C) 0.8 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	A		ABC						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PHA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: M Date/Time: 8/11/14 20:00:00 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 3 Of 3

Submission #: 14-18367 11/21/14 2 of 2

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8/14/14 2:35

Temperature: (A) 1.0 °C (C) 1.2 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL		BC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
INCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: M Date/Time: 8/12/14 00:00 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

= Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1418367-01	COC Number: ---	Receive Date: 08/11/2014 23:15
	Project Number: ---	Sampling Date: 08/11/2014 11:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: CRE-MW1s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1418367-02	COC Number: ---	Receive Date: 08/11/2014 23:15
	Project Number: ---	Sampling Date: 08/11/2014 12:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: CRE-MW2s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1418367-03	COC Number: ---	Receive Date: 08/11/2014 23:15
	Project Number: ---	Sampling Date: 08/11/2014 12:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: CRE-MW3s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1418367-04	COC Number: ---	Receive Date: 08/11/2014 23:15
	Project Number: ---	Sampling Date: 08/11/2014 00:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUP-1	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418367-01		Client Sample Name: CRE-MW1s, 8/11/2014 11:40:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	51	mg/L	0.10	0.016	EPA-200.7	0.040		1
Dissolved Magnesium	53	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	68	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	290	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	66	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	3.2	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	66	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	530	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.16	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.018	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	0.22	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 19:30	JRG	PE-OP1	1	BXH1770
2	EPA-200.7	08/19/14	08/24/14 19:51	JRG	PE-OP1	1	BXH1770
3	SM-2320B	08/12/14	08/12/14 16:08	RML	MET-1	1	BXH0964
4	EPA-300.0	08/12/14	08/12/14 17:13	OLH	IC2	1	BXH1082
5	SM-2540C	08/14/14	08/14/14 13:15	CAD	KONE-1	3.333	BXH1294
6	EPA-351.2	08/19/14	08/20/14 14:37	JP1	SC-1	1	BXH1672
7	EPA-350.1	08/13/14	08/13/14 12:16	JP1	SC-1	1	BXH1094
8	EPA-353.2	08/12/14	08/12/14 09:55	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/19/14	08/20/14 13:22	JP1	SC-1	1	BXH1674

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418367-02		Client Sample Name: CRE-MW2s, 8/11/2014 12:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	32	mg/L	0.10	0.016	EPA-200.7	0.040		1
Dissolved Magnesium	35	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	56	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.1	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	44	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	14	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	60	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	420	mg/L	20	20	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.18	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	0.084	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	2.2	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 19:44	JRG	PE-OP1	1	BXH1770
2	EPA-200.7	08/19/14	08/24/14 20:22	JRG	PE-OP1	1	BXH1770
3	SM-2320B	08/12/14	08/12/14 16:16	RML	MET-1	1	BXH0964
4	EPA-300.0	08/12/14	08/12/14 17:25	OLH	IC2	1	BXH1082
5	SM-2540C	08/14/14	08/14/14 13:15	CAD	KONE-1	2	BXH1294
6	EPA-351.2	08/19/14	08/20/14 14:38	JP1	SC-1	1	BXH1672
7	EPA-350.1	08/13/14	08/13/14 12:19	JP1	SC-1	1	BXH1094
8	EPA-353.2	08/12/14	08/12/14 09:55	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/19/14	08/20/14 13:23	JP1	SC-1	1	BXH1674

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418367-03		Client Sample Name: CRE-MW3s, 8/11/2014 12:40:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	0.040		1
Dissolved Magnesium	120	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	95	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.1	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	710	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	110	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	1.3	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	81	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.18	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.024	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	0.52	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 19:54	JRG	PE-OP1	1	BXH1770
2	EPA-200.7	08/19/14	08/24/14 20:24	JRG	PE-OP1	1	BXH1770
3	SM-2320B	08/12/14	08/12/14 16:23	RML	MET-1	2	BXH0964
4	EPA-300.0	08/12/14	08/13/14 03:28	OLH	IC2	1	BXH1082
5	SM-2540C	08/14/14	08/14/14 13:15	CAD	KONE-1	5	BXH1294
6	EPA-351.2	08/19/14	08/20/14 14:40	JP1	SC-1	1	BXH1672
7	EPA-350.1	08/13/14	08/13/14 12:21	JP1	SC-1	1	BXH1094
8	EPA-353.2	08/12/14	08/12/14 09:55	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/19/14	08/20/14 13:25	JP1	SC-1	1	BXH1674

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418367-04		Client Sample Name: DUP-1, 8/11/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	51	mg/L	0.10	0.016	EPA-200.7	0.040		1
Dissolved Magnesium	53	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	71	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.8	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	300	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	66	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	3.0	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	66	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	470	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.093	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.20	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 19:57	JRG	PE-OP1	1	BXH1770
2	EPA-200.7	08/19/14	08/24/14 20:27	JRG	PE-OP1	1	BXH1770
3	SM-2320B	08/12/14	08/12/14 16:30	RML	MET-1	1	BXH0964
4	EPA-300.0	08/12/14	08/12/14 17:51	OLH	IC2	1	BXH1082
5	SM-2540C	08/14/14	08/14/14 13:15	CAD	KONE-1	3.333	BXH1294
6	EPA-351.2	08/19/14	08/20/14 14:33	JP1	SC-1	1	BXH1672
7	EPA-350.1	08/13/14	08/13/14 12:23	JP1	SC-1	1	BXH1094
8	EPA-353.2	08/12/14	08/12/14 09:55	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/19/14	08/20/14 13:20	JP1	SC-1	1	BXH1674

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0964						
Bicarbonate Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1082						
Chloride	BXH1082-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH1082-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1082-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1094						
Ammonia as N	BXH1094-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH1280						
Nitrite as N	BXH1280-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1294						
Total Dissolved Solids @ 180 C	BXH1294-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1672						
Total Kjeldahl Nitrogen	BXH1672-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH1674						
Total Phosphate	BXH1674-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH1770						
Dissolved Calcium	BXH1770-BLK2	0.040484	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH1770-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH1770-BLK2	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH1770-BLK1	ND	mg/L	1.0	0.10	

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Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1082										
Chloride	BXH1082-BS1	LCS	54.195	50.000	mg/L	108		90 - 110		
Nitrate as N	BXH1082-BS1	LCS	5.4800	5.0000	mg/L	110		90 - 110		
Sulfate	BXH1082-BS1	LCS	108.99	100.00	mg/L	109		90 - 110		
QC Batch ID: BXH1094										
Ammonia as N	BXH1094-BS1	LCS	1.0113	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1280										
Nitrite as N	BXH1280-BS1	LCS	0.50385	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXH1294										
Total Dissolved Solids @ 180 C	BXH1294-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXH1672										
Total Kjeldahl Nitrogen	BXH1672-BS1	LCS	2.0156	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1674										
Total Phosphate	BXH1674-BS1	LCS	3.1257	3.0660	mg/L	102		85 - 115		
QC Batch ID: BXH1770										
Dissolved Calcium	BXH1770-BS2	LCS	9.8776	10.000	mg/L	98.8		85 - 115		
Dissolved Magnesium	BXH1770-BS1	LCS	10.102	10.000	mg/L	101		85 - 115		
Dissolved Sodium	BXH1770-BS2	LCS	10.463	10.000	mg/L	105		85 - 115		
Dissolved Potassium	BXH1770-BS1	LCS	9.4096	10.000	mg/L	94.1		85 - 115		

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Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH0964		Used client sample: Y - Description: BRE-MW2s, 08/11/2014 13:40								
Bicarbonate Alkalinity as CaCO3	DUP	1418366-02	126.12	126.73		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1418366-02	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418366-02	ND	ND		mg/L			10	
QC Batch ID: BXH1082		Used client sample: N								
Chloride	DUP	1418369-01	52.142	51.394		mg/L	1.4		10	
	MS	1418369-01	52.142	165.00	101.01	mg/L		112		80 - 120
	MSD	1418369-01	52.142	165.03	101.01	mg/L	0.0	112	10	80 - 120
Nitrate as N	DUP	1418369-01	35.774	35.664		mg/L	0.3		10	
	MS	1418369-01	35.774	45.408	10.101	mg/L		95.4		80 - 120
	MSD	1418369-01	35.774	45.297	10.101	mg/L	0.2	94.3	10	80 - 120
Sulfate	DUP	1418369-01	129.51	128.92		mg/L	0.5		10	
	MS	1418369-01	129.51	350.20	202.02	mg/L		109		80 - 120
	MSD	1418369-01	129.51	349.63	202.02	mg/L	0.2	109	10	80 - 120
QC Batch ID: BXH1094		Used client sample: Y - Description: CRE-MW1s, 08/11/2014 11:40								
Ammonia as N	DUP	1418367-01	ND	ND		mg/L			10	
	MS	1418367-01	ND	1.1253	1.1111	mg/L		101		90 - 110
	MSD	1418367-01	ND	1.1188	1.1111	mg/L	0.6	101	10	90 - 110
QC Batch ID: BXH1280		Used client sample: N								
Nitrite as N	DUP	1418355-01	0.32592	0.32623		mg/L	0.1		10	
	MS	1418355-01	0.32592	0.85222	0.52632	mg/L		100		90 - 110
	MSD	1418355-01	0.32592	0.87002	0.52632	mg/L	2.1	103	10	90 - 110
QC Batch ID: BXH1294		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1418369-01	930.00	930.00		mg/L	0		10	
QC Batch ID: BXH1672		Used client sample: Y - Description: DUP-1, 08/11/2014 00:00								
Total Kjeldahl Nitrogen	DUP	1418367-04	0.092900	0.25120		mg/L	92.0		20	A02
	MS	1418367-04	0.092900	2.2346	2.0000	mg/L		107		90 - 110
	MSD	1418367-04	0.092900	2.2726	2.0000	mg/L	1.7	109	20	90 - 110
QC Batch ID: BXH1674		Used client sample: Y - Description: DUP-1, 08/11/2014 00:00								
Total Phosphate	DUP	1418367-04	0.20084	0.19777		mg/L	1.5		20	
	MS	1418367-04	0.20084	3.3327	3.0660	mg/L		102		80 - 120
	MSD	1418367-04	0.20084	3.3501	3.0660	mg/L	0.5	103	20	80 - 120
QC Batch ID: BXH1770		Used client sample: Y - Description: CRE-MW1s, 08/11/2014 11:40								
Dissolved Calcium	DUP	1418367-01	50.869	51.205		mg/L	0.7		20	
	MS	1418367-01	50.869	59.282	10.204	mg/L		82.4		85 - 115 A03
	MSD	1418367-01	50.869	59.120	10.204	mg/L	0.3	80.9	20	85 - 115 A03

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH1770		Used client sample: Y - Description: CRE-MW1s, 08/11/2014 11:40								
Dissolved Magnesium	DUP	1418367-01	53.008	52.363		mg/L	1.2		20	
	MS	1418367-01	53.008	62.631	10.204	mg/L		94.3		85 - 115
	MSD	1418367-01	53.008	63.101	10.204	mg/L	0.7	98.9	20	85 - 115
Dissolved Sodium	DUP	1418367-01	68.218	69.670		mg/L	2.1		20	
	MS	1418367-01	68.218	78.947	10.204	mg/L		105		85 - 115
	MSD	1418367-01	68.218	78.340	10.204	mg/L	0.8	99.2	20	85 - 115
Dissolved Potassium	DUP	1418367-01	1.7479	1.7940		mg/L	2.6		20	
	MS	1418367-01	1.7479	12.288	10.204	mg/L		103		85 - 115
	MSD	1418367-01	1.7479	12.098	10.204	mg/L	1.6	101	20	85 - 115

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4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:52
Project: Dairy Rep MP - Expanded Suite
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.

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Date of Report: 08/27/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: MTSJ Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418368
Invoice ID: B181761

Enclosed are the results of analyses for samples received by the laboratory on 8/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1418368

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		Chain of Custody	
4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911	
Report to:			
Expanded Constituent Suite			
Project: Dairy Representative Monitoring Program			
Site: MTSJ Dairy			
Samplers Name:			
Global ID:			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled
1	MTS-MW1	08/11/14	1020
2	MTS-MW2s, MTS-MW2d		
3	MTS-MW3s, MTS-MW3d	08/11/14	0950
4	Field-Duplicate		
5			
6			
7			
8			
9			
10			

Analysis Requested	From Filtered Sample:	From Filtered Sample:	From Unfiltered Sample:
Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	

Relinquished by: (Signature)	Received By:	Date & Time
<i>VMC Lander</i>	<i>R.D. Dickey</i>	08/11/14 1900
Relinquished by: (Signature)	Received by:	Date & Time
<i>R.D. Dickey</i>	<i>[Signature]</i>	8-11-14 19:45
Relinquished by: (Signature)	Received By:	Date & Time
<i>[Signature]</i>	<i>[Signature]</i>	8-11-14 2315

Comments:

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lunderoff and Scalmanini Consulting Engineers via email: llvagnino@isce.com, rbryson@isce.com, pdhalliwal@isce.com
- Send bill to Blaine Tech Services, only.

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-18368

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8/14/14 2:35
 Temperature: (A) 0.6 °C (C) 0.8 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MN Date/Time: 8/14/2014 IS:WPDdoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1418368-01	COC Number:	---	Receive Date:	08/11/2014 23:15
	Project Number:	---	Sampling Date:	08/11/2014 10:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MTS-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418368-02	COC Number:	---	Receive Date:	08/11/2014 23:15
	Project Number:	---	Sampling Date:	08/11/2014 09:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MTS-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418368-01		Client Sample Name: MTS-MW1, 8/11/2014 10:20:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	75	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	37	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	28	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	1.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	240	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	31	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	18	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	38	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	450	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.066	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	2.4	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 20:23	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/12/14	08/12/14 16:38	RML	MET-1	1	BXH0964
3	EPA-300.0	08/12/14	08/13/14 00:41	OLH	IC2	1	BXH1084
4	SM-2540C	08/14/14	08/14/14 12:00	CAD	MANUAL	3.333	BXH1291
5	EPA-351.2	08/19/14	08/20/14 14:42	JP1	SC-1	1	BXH1672
6	EPA-350.1	08/13/14	08/13/14 12:23	JP1	SC-1	1	BXH1094
7	EPA-353.2	08/12/14	08/12/14 09:45	TDC	KONE-1	1	BXH1280
8	EPA-365.4	08/19/14	08/20/14 13:26	JP1	SC-1	1	BXH1674

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Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418368-02		Client Sample Name: MTS-MW3d, 8/11/2014 9:50:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	82	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	43	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	37	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	230	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	38	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	31	mg/L	0.20	0.050	EPA-300.0	ND	A01	4
Sulfate	37	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	530	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	2.6	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.044	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	13	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 20:43	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/12/14	08/12/14 17:04	RML	MET-1	1	BXH0964
3	EPA-300.0	08/12/14	08/13/14 00:54	OLH	IC2	1	BXH1084
4	EPA-300.0	08/12/14	08/13/14 03:49	OLH	IC2	2	BXH1084
5	SM-2540C	08/14/14	08/14/14 12:00	CAD	MANUAL	3.333	BXH1291
6	EPA-351.2	08/19/14	08/20/14 14:42	JP1	SC-1	1	BXH1672
7	EPA-350.1	08/13/14	08/13/14 12:25	JP1	SC-1	1	BXH1094
8	EPA-353.2	08/12/14	08/12/14 09:45	TDC	KONE-1	1	BXH1280
9	EPA-365.4	08/19/14	08/20/14 13:50	JP1	SC-1	5	BXH1674

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0964						
Bicarbonate Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH0964-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1084						
Chloride	BXH1084-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH1084-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1084-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1094						
Ammonia as N	BXH1094-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH1280						
Nitrite as N	BXH1280-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1291						
Total Dissolved Solids @ 180 C	BXH1291-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1672						
Total Kjeldahl Nitrogen	BXH1672-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH1674						
Total Phosphate	BXH1674-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH1771						
Dissolved Calcium	BXH1771-BLK1	0.051794	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH1771-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH1771-BLK1	0.051605	mg/L	0.50	0.051	J
Dissolved Potassium	BXH1771-BLK1	ND	mg/L	1.0	0.10	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1084										
Chloride	BXH1084-BS1	LCS	54.235	50.000	mg/L	108		90 - 110		
Nitrate as N	BXH1084-BS1	LCS	5.1790	5.0000	mg/L	104		90 - 110		
Sulfate	BXH1084-BS1	LCS	108.94	100.00	mg/L	109		90 - 110		
QC Batch ID: BXH1094										
Ammonia as N	BXH1094-BS1	LCS	1.0113	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1280										
Nitrite as N	BXH1280-BS1	LCS	0.50385	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXH1291										
Total Dissolved Solids @ 180 C	BXH1291-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXH1672										
Total Kjeldahl Nitrogen	BXH1672-BS1	LCS	2.0156	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1674										
Total Phosphate	BXH1674-BS1	LCS	3.1257	3.0660	mg/L	102		85 - 115		
QC Batch ID: BXH1771										
Dissolved Calcium	BXH1771-BS1	LCS	9.3675	10.000	mg/L	93.7		85 - 115		
Dissolved Magnesium	BXH1771-BS1	LCS	10.176	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH1771-BS1	LCS	11.089	10.000	mg/L	111		85 - 115		
Dissolved Potassium	BXH1771-BS1	LCS	10.165	10.000	mg/L	102		85 - 115		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH0964		Used client sample: Y - Description: BRE-MW2s, 08/11/2014 13:40								
Bicarbonate Alkalinity as CaCO3	DUP	1418366-02	126.12	126.73		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1418366-02	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418366-02	ND	ND		mg/L			10	
QC Batch ID: BXH1084		Used client sample: N								
Chloride	DUP	1418409-01	96.802	96.515		mg/L	0.3		10	
	MS	1418409-01	96.802	155.54	50.505	mg/L		116		80 - 120
	MSD	1418409-01	96.802	154.15	50.505	mg/L	0.9	114	10	80 - 120
Nitrate as N	DUP	1418409-01	3.5410	3.3140		mg/L	6.6		10	
	MS	1418409-01	3.5410	9.0606	5.0505	mg/L		109		80 - 120
	MSD	1418409-01	3.5410	8.9879	5.0505	mg/L	0.8	108	10	80 - 120
Sulfate	DUP	1418409-01	201.39	198.46		mg/L	1.5		10	
	MS	1418409-01	201.39	307.21	101.01	mg/L		105		80 - 120
	MSD	1418409-01	201.39	306.12	101.01	mg/L	0.4	104	10	80 - 120
QC Batch ID: BXH1094		Used client sample: Y - Description: CRE-MW1s, 08/11/2014 11:40								
Ammonia as N	DUP	1418367-01	ND	ND		mg/L			10	
	MS	1418367-01	ND	1.1253	1.1111	mg/L		101		90 - 110
	MSD	1418367-01	ND	1.1188	1.1111	mg/L	0.6	101	10	90 - 110
QC Batch ID: BXH1280		Used client sample: N								
Nitrite as N	DUP	1418355-01	0.32592	0.32623		mg/L	0.1		10	
	MS	1418355-01	0.32592	0.85222	0.52632	mg/L		100		90 - 110
	MSD	1418355-01	0.32592	0.87002	0.52632	mg/L	2.1	103	10	90 - 110
QC Batch ID: BXH1291		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1418556-02	2260.0	2260.0		mg/L	0		10	
QC Batch ID: BXH1672		Used client sample: Y - Description: DUP-1, 08/11/2014 00:00								
Total Kjeldahl Nitrogen	DUP	1418367-04	0.092900	0.25120		mg/L	92.0		20	A02
	MS	1418367-04	0.092900	2.2346	2.0000	mg/L		107		90 - 110
	MSD	1418367-04	0.092900	2.2726	2.0000	mg/L	1.7	109	20	90 - 110
QC Batch ID: BXH1674		Used client sample: Y - Description: DUP-1, 08/11/2014 00:00								
Total Phosphate	DUP	1418367-04	0.20084	0.19777		mg/L	1.5		20	
	MS	1418367-04	0.20084	3.3327	3.0660	mg/L		102		80 - 120
	MSD	1418367-04	0.20084	3.3501	3.0660	mg/L	0.5	103	20	80 - 120
QC Batch ID: BXH1771		Used client sample: Y - Description: MTS-MW1, 08/11/2014 10:20								
Dissolved Calcium	DUP	1418368-01	74.956	74.429		mg/L	0.7		20	
	MS	1418368-01	74.956	84.419	10.204	mg/L		92.7		85 - 115
	MSD	1418368-01	74.956	83.846	10.204	mg/L	0.7	87.1	20	85 - 115

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXH1771		Used client sample: Y - Description: MTS-MW1, 08/11/2014 10:20									
Dissolved Magnesium	DUP	1418368-01	36.587	36.581		mg/L	0.0		20		
	MS	1418368-01	36.587	46.687	10.204	mg/L		99.0		85 - 115	
	MSD	1418368-01	36.587	46.520	10.204	mg/L	0.4	97.3	20	85 - 115	
Dissolved Sodium	DUP	1418368-01	28.391	27.563		mg/L	3.0		20		
	MS	1418368-01	28.391	39.537	10.204	mg/L		109		85 - 115	
	MSD	1418368-01	28.391	39.134	10.204	mg/L	1.0	105	20	85 - 115	
Dissolved Potassium	DUP	1418368-01	1.1130	1.0893		mg/L	2.2		20		
	MS	1418368-01	1.1130	12.658	10.204	mg/L		113		85 - 115	
	MSD	1418368-01	1.1130	12.588	10.204	mg/L	0.6	112	20	85 - 115	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/27/2014 15:53
Project: Dairy Rep MP - Expanded Suite
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.

South Area



Date of Report: 09/10/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Aukeman Farms
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419451
Invoice ID: B182578

Enclosed are the results of analyses for samples received by the laboratory on 8/21/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419451

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19451

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Blaine Tech Services
Expanded Constituent Suite
Project: Dairy Representative Monitoring Program
Site: Aukeman Farms
Samplers Name: V. Landi & T. Bell
Global ID -

Analysis Requested

From Unfiltered Sample:
Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

From Filtered Sample:
Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Filtered Sample:
Ammonia-N, NO3-N,
NO2-N

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Analysis Requested	
					From Filtered Sample	From Unfiltered Sample
1	AUK-MW1	08/21/2014	0805	GW	x	x
2	AUK-MW2		0930	GW	x	x
3	AUK-MW3		0845	GW	x	x
4	Field Duplicate #5			GW	x	x
5						
6						
7						
8						
9						
10						

Comments:

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lufdorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pdhalliwal@lscce.com
- 4) Send bill to Blaine Tech Services, only.

Relinquished by: (Signature)

[Signature]

Relinquished by: (Signature)

[Signature]

Relinquished by: (Signature)

[Signature]

Received By: (Signature)

[Signature] 08/21/14 2200

Received by: (Signature)

[Signature] 8/21/14 2320

Received By: (Signature)

[Signature] 8/21/14 2320

(A)= Analysis (C)= Container (P)= Preservative



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419451-01	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 08:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AUK-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419451-02	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 09:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AUK-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419451-03	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 08:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AUK-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419451-04	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #5	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419451-01		Client Sample Name: AUK-MW1, 8/21/2014 8:05:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	240	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	25	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	190	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.89	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	380	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	27	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	42	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	470	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.15	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	0.037	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.5	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:11	JRG	PE-OP1	1	BXH2421
2	SM-2320B	08/25/14	08/26/14 00:49	RLP	MET-1	2	BXH2448
3	EPA-300.0	08/22/14	08/23/14 00:29	LD1	IC2	5	BXH2264
4	SM-2540C	08/28/14	08/28/14 11:00	CAD	MANUAL	5	BXH2823
5	EPA-351.2	09/02/14	09/03/14 16:50	JP1	SC-1	1	BXI0082
6	EPA-350.1	09/04/14	09/05/14 11:54	JP1	SC-1	1	BXI0448
7	EPA-353.2	08/22/14	08/22/14 08:12	TDC	KONE-1	1	BXH2139
8	EPA-365.4	09/02/14	09/03/14 15:17	JP1	SC-1	1	BXI0084

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419451-02		Client Sample Name: AUK-MW2, 8/21/2014 9:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	240	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	25	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	160	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	1.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	690	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	78	mg/L	2.5	0.34	EPA-300.0	ND	A01	4
Nitrate as N	28	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	43	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.20	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	3.0	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:54	JRG	PE-OP1	1	BXH2421
2	EPA-200.7	08/25/14	09/08/14 01:17	JRG	PE-OP1	1	BXH2421
3	SM-2320B	08/25/14	08/26/14 00:58	RLP	MET-1	2	BXH2448
4	EPA-300.0	08/22/14	08/23/14 02:37	LD1	IC2	5	BXH2264
5	SM-2540C	08/28/14	08/28/14 11:00	CAD	MANUAL	5	BXH2823
6	EPA-351.2	09/02/14	09/03/14 16:50	JP1	SC-1	1	BXI0082
7	EPA-350.1	09/04/14	09/05/14 11:55	JP1	SC-1	1	BXI0448
8	EPA-353.2	08/22/14	08/22/14 08:12	TDC	KONE-1	1	BXH2139
9	EPA-365.4	09/02/14	09/03/14 15:18	JP1	SC-1	1	BXI0084

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419451-03		Client Sample Name: AUK-MW3, 8/21/2014 8:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	22	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	270	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.74	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	610	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	35	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	45	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	140	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.15	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	0.034	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.33	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	08/27/14 22:50	JRG	PE-OP1	1	BXH2733
2	SM-2320B	08/25/14	08/26/14 01:08	RLP	MET-1	2	BXH2448
3	EPA-300.0	08/22/14	08/23/14 00:42	LD1	IC2	5	BXH2264
4	SM-2540C	08/28/14	08/28/14 11:00	CAD	MANUAL	5	BXH2823
5	EPA-351.2	09/02/14	09/03/14 16:52	JP1	SC-1	1	BXI0082
6	EPA-350.1	09/04/14	09/05/14 11:58	JP1	SC-1	1	BXI0448
7	EPA-353.2	08/22/14	08/22/14 08:12	TDC	KONE-1	1	BXH2139
8	EPA-365.4	09/02/14	09/03/14 15:18	JP1	SC-1	1	BXI0084

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419451-04		Client Sample Name: Field Duplicate #5, 8/21/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	22	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	270	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.77	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	610	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	36	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	46	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	140	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.16	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	0.035	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.30	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	08/27/14 22:52	JRG	PE-OP1	1	BXH2733
2	SM-2320B	08/25/14	08/26/14 01:18	RLP	MET-1	2	BXH2448
3	EPA-300.0	08/22/14	08/23/14 04:32	LD1	IC2	5	BXH2264
4	SM-2540C	08/28/14	08/28/14 11:00	CAD	MANUAL	5	BXH2823
5	EPA-351.2	09/02/14	09/03/14 16:52	JP1	SC-1	1	BXI0082
6	EPA-350.1	09/04/14	09/05/14 11:59	JP1	SC-1	1	BXI0448
7	EPA-353.2	08/22/14	08/22/14 08:12	TDC	KONE-1	1	BXH2139
8	EPA-365.4	09/02/14	09/03/14 15:19	JP1	SC-1	1	BXI0084

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2139						
Nitrite as N	BXH2139-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2264						
Chloride	BXH2264-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH2264-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2264-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2421						
Dissolved Calcium	BXH2421-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2421-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2421-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2421-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2448						
Bicarbonate Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2733						
Dissolved Calcium	BXH2733-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2733-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2733-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2733-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2823						
Total Dissolved Solids @ 180 C	BXH2823-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0082						
Total Kjeldahl Nitrogen	BXI0082-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0084						
Total Phosphate	BXI0084-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0448						
Ammonia as N	BXI0448-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2139										
Nitrite as N	BXH2139-BS1	LCS	0.52696	0.50000	mg/L	105		90 - 110		
QC Batch ID: BXH2264										
Chloride	BXH2264-BS1	LCS	47.960	50.000	mg/L	95.9		90 - 110		
Nitrate as N	BXH2264-BS1	LCS	5.2450	5.0000	mg/L	105		90 - 110		
Sulfate	BXH2264-BS1	LCS	95.235	100.00	mg/L	95.2		90 - 110		
QC Batch ID: BXH2421										
Dissolved Calcium	BXH2421-BS1	LCS	9.9314	10.000	mg/L	99.3		85 - 115		
Dissolved Magnesium	BXH2421-BS1	LCS	10.438	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXH2421-BS1	LCS	10.182	10.000	mg/L	102		85 - 115		
Dissolved Potassium	BXH2421-BS1	LCS	10.002	10.000	mg/L	100		85 - 115		
QC Batch ID: BXH2733										
Dissolved Calcium	BXH2733-BS1	LCS	9.9350	10.000	mg/L	99.3		85 - 115		
Dissolved Magnesium	BXH2733-BS1	LCS	10.039	10.000	mg/L	100		85 - 115		
Dissolved Sodium	BXH2733-BS1	LCS	9.7344	10.000	mg/L	97.3		85 - 115		
Dissolved Potassium	BXH2733-BS1	LCS	9.3611	10.000	mg/L	93.6		85 - 115		
QC Batch ID: BXH2823										
Total Dissolved Solids @ 180 C	BXH2823-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXI0082										
Total Kjeldahl Nitrogen	BXI0082-BS1	LCS	1.8563	2.0000	mg/L	92.8		90 - 110		
QC Batch ID: BXI0084										
Total Phosphate	BXI0084-BS1	LCS	3.0082	3.0660	mg/L	98.1		85 - 115		
QC Batch ID: BXI0448										
Ammonia as N	BXI0448-BS1	LCS	0.98950	1.0000	mg/L	99.0		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2139		Used client sample: N								
Nitrite as N	DUP	1419435-01	ND	ND		mg/L			10	
	MS	1419435-01	ND	0.51881	0.52632	mg/L		98.6	90 - 110	
	MSD	1419435-01	ND	0.52214	0.52632	mg/L	0.6	99.2	10	90 - 110
QC Batch ID: BXH2264		Used client sample: Y - Description: AUK-MW1, 08/21/2014 08:05								
Chloride	DUP	419451-01RE	26.835	25.705		mg/L	4.3		10	
	MS	419451-01RE	26.835	271.74	252.53	mg/L		97.0	80 - 120	
	MSD	419451-01RE	26.835	271.24	252.53	mg/L	0.2	96.8	10	80 - 120
Nitrate as N	DUP	419451-01RE	37.210	37.890		mg/L	1.8		10	
	MS	419451-01RE	37.210	63.177	25.253	mg/L		103	80 - 120	
	MSD	419451-01RE	37.210	63.253	25.253	mg/L	0.1	103	10	80 - 120
Sulfate	DUP	419451-01RE	445.62	459.29		mg/L	3.0		10	
	MS	419451-01RE	445.62	974.02	505.05	mg/L		105	80 - 120	
	MSD	419451-01RE	445.62	971.55	505.05	mg/L	0.3	104	10	80 - 120
QC Batch ID: BXH2421		Used client sample: Y - Description: AUK-MW1, 08/21/2014 08:05								
Dissolved Calcium	DUP	1419451-01	242.58	245.14		mg/L	1.1		20	
	MS	1419451-01	242.58	253.06	10.204	mg/L		103	85 - 115	
	MSD	1419451-01	242.58	252.40	10.204	mg/L	0.3	96.2	20	85 - 115
Dissolved Magnesium	DUP	1419451-01	24.713	24.520		mg/L	0.8		20	
	MS	1419451-01	24.713	34.915	10.204	mg/L		100	85 - 115	
	MSD	1419451-01	24.713	35.120	10.204	mg/L	0.6	102	20	85 - 115
Dissolved Sodium	DUP	1419451-01	192.14	193.12		mg/L	0.5		20	
	MS	1419451-01	192.14	198.98	10.204	mg/L		67.0	85 - 115	A03
	MSD	1419451-01	192.14	197.28	10.204	mg/L	0.9	50.4	20	85 - 115 A03
Dissolved Potassium	DUP	1419451-01	0.89043	0.87156		mg/L	2.1		20	J
	MS	1419451-01	0.89043	11.916	10.204	mg/L		108	85 - 115	
	MSD	1419451-01	0.89043	12.141	10.204	mg/L	1.9	110	20	85 - 115
QC Batch ID: BXH2448		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419404-01	87.020	87.630		mg/L	0.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419404-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419404-01	ND	ND		mg/L			10	
QC Batch ID: BXH2733		Used client sample: N								
Dissolved Calcium	DUP	1419467-01	120.47	122.04		mg/L	1.3		20	
	MS	1419467-01	120.47	135.98	10.204	mg/L		152	85 - 115	A03
	MSD	1419467-01	120.47	129.58	10.204	mg/L	4.8	89.2	20	85 - 115
Dissolved Magnesium	DUP	1419467-01	33.038	33.069		mg/L	0.1		20	
	MS	1419467-01	33.038	43.444	10.204	mg/L		102	85 - 115	
	MSD	1419467-01	33.038	43.741	10.204	mg/L	0.7	105	20	85 - 115

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2733		Used client sample: N								
Dissolved Sodium	DUP	1419467-01	210.25	212.74		mg/L	1.2		20	
	MS	1419467-01	210.25	227.20	10.204	mg/L		166		A03
	MSD	1419467-01	210.25	218.40	10.204	mg/L	4.0	79.8	20	85 - 115 A03
Dissolved Potassium	DUP	1419467-01	5.8236	5.8972		mg/L	1.3		20	
	MS	1419467-01	5.8236	16.554	10.204	mg/L		105		85 - 115
	MSD	1419467-01	5.8236	16.636	10.204	mg/L	0.5	106	20	85 - 115
QC Batch ID: BXH2823		Used client sample: Y - Description: AUK-MW1, 08/21/2014 08:05								
Total Dissolved Solids @ 180 C	DUP	1419451-01	1310.0	1295.0		mg/L	1.2		10	
QC Batch ID: BXI0082		Used client sample: Y - Description: SOJ-MW5d, 08/21/2014 15:55								
Total Kjeldahl Nitrogen	DUP	1419450-01	0.44510	0.36730		mg/L	19.2		20	
	MS	1419450-01	0.44510	2.1986	2.0000	mg/L		87.7		90 - 110 Q03
	MSD	1419450-01	0.44510	2.2080	2.0000	mg/L	0.4	88.1	20	90 - 110 Q03
QC Batch ID: BXI0084		Used client sample: Y - Description: SOJ-MW5d, 08/21/2014 15:55								
Total Phosphate	DUP	1419450-01	0.22996	0.21586		mg/L	6.3		20	
	MS	1419450-01	0.22996	3.1815	3.0660	mg/L		96.3		80 - 120
	MSD	1419450-01	0.22996	3.2554	3.0660	mg/L	2.3	98.7	20	80 - 120
QC Batch ID: BXI0448		Used client sample: Y - Description: SOJ-MW6d, 08/21/2014 16:30								
Ammonia as N	DUP	1419450-02	0.037800	0.037800		mg/L	0		10	J
	MS	1419450-02	0.037800	1.1728	1.1111	mg/L		102		90 - 110
	MSD	1419450-02	0.037800	1.1728	1.1111	mg/L	0	102	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/10/2014 12:32
Project: Dairy Rep MP - Expanded Suite
Project Number: Aukeman Farms
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/02/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Dairyland Farms
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418698
Invoice ID: B182059

Enclosed are the results of analyses for samples received by the laboratory on 8/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1418698

Samples were filtered through a 0.45 micron filter for requested analyses.



14-186988 ^{Am} 8/14/14

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:				Analysis Requested			
Expanded Constituent Suite							
Name: Blaine Tech Services		Project: Dairy Representative Monitoring Program		From Filtered Sample:		From Filtered Sample:	
Address: 4731 Pell Drive #5		Site: Dairyland Farms		Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids		Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
City: Sacramento		Samplers Name: V. Lardi		Ammonia-N, NO3-N, NO2-N			
State: Zip: 95838		Global ID -					
CA							
Attn: David Webb (916) 925-2913 x102							
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt, Pp Unpreserved		
1	DLF-MW1				X		<input checked="" type="checkbox"/>
2	DLF-MW2				X		<input checked="" type="checkbox"/>
3	DLF-MW3				X		<input checked="" type="checkbox"/>
4	DLF-MW4A, DLF-MW4B, DLF-MW4C				X		<input checked="" type="checkbox"/>
5	DLF-MW5A, DLF-MW5B, DLF-MW5C				X		<input checked="" type="checkbox"/>
6	DLF-MW6A, DLF-MW6B, DLF-MW6C, DLF-MW6D	08/13/14	1500	GW	X		<input checked="" type="checkbox"/>
7	Field-Duplicate				X		<input checked="" type="checkbox"/>
8							
9							
10							

Relinquished by: (Signature) *[Signature]* Date & Time 08/13/14 @ 2215
 Relinquished by: (Signature) *[Signature]* Date & Time 8-13-14 0845
 Received By: *[Signature]* Date & Time

Relinquished by: (Signature) *[Signature]*
 Relinquished by: (Signature) *[Signature]*
 Relinquished by: (Signature) *[Signature]*

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lundorf and Scalimanni Consulting Engineers via email: llavagnino@isce.com, rbryson@isce.com, pdhaliwal@isce.com
 4) Send bill to Blaine Tech Services, only.
 (A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-186978 mm 8/14/14

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Intact? Yes No Intact? Yes No Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/13/14 2345
 Temperature: (A) 3.6 °C / (C) 3.8 °C Analyst Init: mm

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 Cr⁶⁺ ND (NC) OP SS
 DO Cl₂ BOD MBAS COT
 CHK BY DISTRIBUTION
 mm

Comments: _____
 Sample Numbering Completed By: mm Date/Time: 8/14/14 @ 0130 IS:WPDocWordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:29
Project: Dairy Rep MP - Expanded Suite
Project Number: Dairyland Farms
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1418698-01	COC Number: ---	Receive Date: 08/13/2014 23:45
	Project Number: ---	Sampling Date: 08/13/2014 15:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DLF-MW6B	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:29
Project: Dairy Rep MP - Expanded Suite
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418698-01		Client Sample Name: DLF-MW6B, 8/13/2014 3:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	0.044		1
Dissolved Magnesium	17	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	63	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	290	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	36	mg/L	1.0	0.13	EPA-300.0	0.29	A01	3
Nitrate as N	52	mg/L	0.20	0.050	EPA-300.0	ND	A01,S01	3
Sulfate	71	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	780	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.43	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.10	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.9	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/24/14 23:14	JRG	PE-OP1	1	BXH1772
2	SM-2320B	08/18/14	08/18/14 20:50	RML	MET-1	2	BXH1585
3	EPA-300.0	08/15/14	08/15/14 14:54	LD1	IC5	2	BXH1593
4	SM-2540C	08/19/14	08/19/14 13:00	CAD	MANUAL	5	BXH1717
5	EPA-351.2	08/19/14	08/20/14 14:44	JP1	SC-1	1	BXH1672
6	EPA-350.1	08/21/14	08/21/14 11:58	JP1	SC-1	1	BXH1996
7	EPA-353.2	08/14/14	08/14/14 09:32	TDC	KONE-1	1	BXH1484
8	EPA-365.4	08/19/14	08/20/14 13:27	JP1	SC-1	1	BXH1674

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:29
Project: Dairy Rep MP - Expanded Suite
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1484						
Nitrite as N	BXH1484-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1585						
Bicarbonate Alkalinity as CaCO3	BXH1585-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1585-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1585-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1593						
Chloride	BXH1593-BLK1	0.14500	mg/L	0.50	0.067	J
Nitrate as N	BXH1593-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1593-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1672						
Total Kjeldahl Nitrogen	BXH1672-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH1674						
Total Phosphate	BXH1674-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH1717						
Total Dissolved Solids @ 180 C	BXH1717-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1772						
Dissolved Calcium	BXH1772-BLK1	0.043656	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH1772-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH1772-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH1772-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH1996						
Ammonia as N	BXH1996-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:29
Project: Dairy Rep MP - Expanded Suite
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1484										
Nitrite as N	BXH1484-BS1	LCS	0.54245	0.50000	mg/L	108		90 - 110		
QC Batch ID: BXH1593										
Chloride	BXH1593-BS1	LCS	52.249	50.000	mg/L	104		90 - 110		
Nitrate as N	BXH1593-BS1	LCS	5.2140	5.0000	mg/L	104		90 - 110		
Sulfate	BXH1593-BS1	LCS	103.98	100.00	mg/L	104		90 - 110		
QC Batch ID: BXH1672										
Total Kjeldahl Nitrogen	BXH1672-BS1	LCS	2.0156	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1674										
Total Phosphate	BXH1674-BS1	LCS	3.1257	3.0660	mg/L	102		85 - 115		
QC Batch ID: BXH1717										
Total Dissolved Solids @ 180 C	BXH1717-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH1772										
Dissolved Calcium	BXH1772-BS1	LCS	9.6530	10.000	mg/L	96.5		85 - 115		
Dissolved Magnesium	BXH1772-BS1	LCS	10.000	10.000	mg/L	100		85 - 115		
Dissolved Sodium	BXH1772-BS1	LCS	9.4108	10.000	mg/L	94.1		85 - 115		
Dissolved Potassium	BXH1772-BS1	LCS	8.9898	10.000	mg/L	89.9		85 - 115		
QC Batch ID: BXH1996										
Ammonia as N	BXH1996-BS1	LCS	1.0343	1.0000	mg/L	103		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:29
Project: Dairy Rep MP - Expanded Suite
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH1484		Used client sample: N								
Nitrite as N	DUP	1418592-01	ND	ND		mg/L			10	
	MS	1418592-01	ND	0.53903	0.52632	mg/L		102		90 - 110
	MSD	1418592-01	ND	0.52872	0.52632	mg/L	1.9	100	10	90 - 110
QC Batch ID: BXH1585		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1418694-03	479.22	481.96		mg/L	0.6		10	
Carbonate Alkalinity as CaCO3	DUP	1418694-03	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418694-03	ND	ND		mg/L			10	
QC Batch ID: BXH1593		Used client sample: N								
Chloride	DUP	418808-04RE'	87.279	87.154		mg/L	0.1		10	
	MS	418808-04RE'	87.279	136.56	50.505	mg/L		97.6		80 - 120
	MSD	418808-04RE'	87.279	136.51	50.505	mg/L	0.0	97.5	10	80 - 120
Nitrate as N	DUP	418808-04RE'	0.025000	0.026000		mg/L	3.9		10	J
	MS	418808-04RE'	0.025000	5.2657	5.0505	mg/L		104		80 - 120
	MSD	418808-04RE'	0.025000	5.2414	5.0505	mg/L	0.5	103	10	80 - 120
Sulfate	DUP	418808-04RE'	20.717	20.594		mg/L	0.6		10	
	MS	418808-04RE'	20.717	128.56	101.01	mg/L		107		80 - 120
	MSD	418808-04RE'	20.717	128.42	101.01	mg/L	0.1	107	10	80 - 120
QC Batch ID: BXH1672		Used client sample: Y - Description: DUP-1, 08/11/2014 00:00								
Total Kjeldahl Nitrogen	DUP	1418367-04	0.092900	0.25120		mg/L	92.0		20	A02
	MS	1418367-04	0.092900	2.2346	2.0000	mg/L		107		90 - 110
	MSD	1418367-04	0.092900	2.2726	2.0000	mg/L	1.7	109	20	90 - 110
QC Batch ID: BXH1674		Used client sample: Y - Description: DUP-1, 08/11/2014 00:00								
Total Phosphate	DUP	1418367-04	0.20084	0.19777		mg/L	1.5		20	
	MS	1418367-04	0.20084	3.3327	3.0660	mg/L		102		80 - 120
	MSD	1418367-04	0.20084	3.3501	3.0660	mg/L	0.5	103	20	80 - 120
QC Batch ID: BXH1717		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1418689-08	2560.0	2550.0		mg/L	0.4		10	
QC Batch ID: BXH1772		Used client sample: N								
Dissolved Calcium	DUP	1418587-01	56.928	58.825		mg/L	3.3		20	
	MS	1418587-01	56.928	67.042	10.204	mg/L		99.1		85 - 115
	MSD	1418587-01	56.928	64.978	10.204	mg/L	3.1	78.9	20	85 - 115 A03
Dissolved Magnesium	DUP	1418587-01	4.2315	4.2842		mg/L	1.2		20	
	MS	1418587-01	4.2315	15.221	10.204	mg/L		108		85 - 115
	MSD	1418587-01	4.2315	14.870	10.204	mg/L	2.3	104	20	85 - 115

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:29
Project: Dairy Rep MP - Expanded Suite
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXH1772		Used client sample: N									
Dissolved Sodium	DUP	1418587-01	78.337	79.806		mg/L	1.9		20		
	MS	1418587-01	78.337	87.618	10.204	mg/L		91.0		85 - 115	
	MSD	1418587-01	78.337	86.965	10.204	mg/L	0.7	84.6	20	85 - 115	A03
Dissolved Potassium	DUP	1418587-01	12.112	12.456		mg/L	2.8		20		
	MS	1418587-01	12.112	22.611	10.204	mg/L		103		85 - 115	
	MSD	1418587-01	12.112	22.207	10.204	mg/L	1.8	98.9	20	85 - 115	
QC Batch ID: BXH1996		Used client sample: Y - Description: JAD-MW3, 08/13/2014 10:00									
Ammonia as N	DUP	1418699-01	0.033000	ND		mg/L			10		
	MS	1418699-01	0.033000	1.1462	1.1111	mg/L		100		90 - 110	
	MSD	1418699-01	0.033000	1.1393	1.1111	mg/L	0.6	99.6	10	90 - 110	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:29
Project: Dairy Rep MP - Expanded Suite
Project Number: Dairyland Farms
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- S01 Sample result is not within the quantitation range of the method.



Date of Report: 09/08/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Giacomazzi Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419215
Invoice ID: B182546

Enclosed are the results of analyses for samples received by the laboratory on 8/19/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419215

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19215

Chain of Custody

4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911

BC Laboratories, Inc.

Name:		Blaine Tech Services		Report to:		Expanded Constituent Suite		Analysis Requested			
Address:		4731 Pell Drive #5		Project:		Dairy Representative Monitoring Program		From Filtered Sample:			
City:		Sacramento		Site:		Giacomazzi Dairy		Ammonia-N, NO3-N, NO2-N			
State:		CA		Samplers Name:		V. Lundy & T. Bell		From Filtered Sample:			
Zip:		95838		Global ID:				Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids			
Attn:		David Webb (916) 925-2913 x102		Date Sampled		Time Sampled		Matrix		From Unfiltered Sample:	
Lab #		Strike out non-sampled wells		Date Sampled		Time Sampled		Matrix		Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
1	<input checked="" type="checkbox"/>	ZZI-MW1A, ZZI-MW1B, ZZI-MW4G, ZZI-MW7B, ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-1	08/19/2014	1240	GW	x	GW	x	x	x
2	<input checked="" type="checkbox"/>	ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-2		1125	GW	x	GW	x	x	x
3	<input checked="" type="checkbox"/>	ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-3		1200	GW	x	GW	x	x	x
4	<input checked="" type="checkbox"/>	ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-4		1355	GW	x	GW	x	x	x
5	<input checked="" type="checkbox"/>	ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-5		1430	GW	x	GW	x	x	x
6	<input checked="" type="checkbox"/>	ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-6		1320	GW	x	GW	x	x	x
7	<input checked="" type="checkbox"/>	ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-7		1040	GW	x	GW	x	x	x
8	<input checked="" type="checkbox"/>	ZZI-MW2A, ZZI-MW2B, ZZI-MW2C, ZZI-MW2D, ZZI-MW3A, ZZI-MW3A, ZZI-MW3B, ZZI-MW5A, ZZI-MW5B, ZZI-MW5D, ZZI-MW6A, ZZI-MW6B, ZZI-MW6C, ZZI-MW6D, ZZI-MW7A, ZZI-MW7C, ZZI-MW7D, ZZI-MW9A, ZZI-MW9B, ZZI-MW9D	-8			GW	x	GW	x	x	x
9	<input type="checkbox"/>										
10	<input type="checkbox"/>										
11	<input type="checkbox"/>										

Comments:

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lundy and Scalmani Consulting Engineers via email: llavagnino@isce.com, rolyson@isce.com, pdhall@isce.com
- Send bill to Blaine Tech Services, only.

Relinquished by: (Signature) *[Signature]* Date & Time 08/19/14 2100

Relinquished by: (Signature) *[Signature]* Date & Time 8-19-14 2100

Relinquished by: (Signature) *[Signature]* Date & Time

(A) = Analysis (C) = Container (P) = Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-19215

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/19/14 22:10
 Temperature: (A) 2.2 °C (C) 2.4 °C Analyst Init: MWI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	ABC	ABC	ABC				ABC	ABC		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 C-# 10 () () () () () () () () () ()
 DO NOT SIGN HERE
 DATE 8/19/14
 TIME 22:10
 ANALYST MWI
 DISTRIBUTION
 MWI
 SUBMITTED

Comments: _____
 Sample Numbering Completed By: MWI Date/Time: 8/20/14 @ 00:45 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-19215

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/19/14 22:10
 Temperature: (A) 0.6 °C / (C) 0.8 °C Analyst Init AWI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL				ABC	ABC	ABC				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Camister										

Comments: _____
 Sample Numbering Completed By: AWI Date/Time: 8/20/14 @ 0045 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419215-01	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 12:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW1A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419215-02	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 11:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW2A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419215-03	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 12:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW3A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419215-04	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 13:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW5D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419215-05	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 14:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW6D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419215-06	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 13:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW7C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419215-07	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 10:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW9D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419215-08	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-01		Client Sample Name: ZZI-MW1A, 8/19/2014 12:40:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	65	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	320	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	68	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	1100	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	220	mg/L	1.0	0.13	EPA-300.0	ND	A01	3
Nitrate as N	0.98	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	100	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	1300	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	31	mg/L	5.0	1.3	EPA-351.2	ND	A01	6
Ammonia as N	25	mg/L	2.0	0.66	EPA-350.1	ND	A01	7
Nitrite as N	0.038	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	27	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 21:16	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 22:22	RML	MET-1	2	BXH2188
3	EPA-300.0	08/21/14	08/21/14 16:52	OLH	IC2	2	BXH2037
4	EPA-300.0	08/21/14	08/21/14 10:14	LD1	IC2	1	BXH2037
5	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	10	BXH2320
6	EPA-351.2	08/26/14	08/29/14 17:31	JP1	SC-1	25	BXH2311
7	EPA-350.1	09/02/14	09/03/14 09:43	JP1	SC-1	20	BXI0066
8	EPA-353.2	08/20/14	08/20/14 09:07	TDC	KONE-1	1	BXH1854
9	EPA-365.4	08/26/14	08/29/14 15:23	JP1	SC-1	5	BXH2313

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-02	Client Sample Name: ZZI-MW2A, 8/19/2014 11:25:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	55	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	420	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	35	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	1000	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	210	mg/L	1.0	0.13	EPA-300.0	ND	A01	3
Nitrate as N	32	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	120	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	5.4	mg/L	0.50	0.13	EPA-351.2	ND	A01	5
Ammonia as N	3.2	mg/L	0.20	0.066	EPA-350.1	ND	A01	6
Nitrite as N	0.019	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.42	mg/L	0.38	0.23	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 21:28	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 22:30	RML	MET-1	2	BXH2188
3	EPA-300.0	08/21/14	08/21/14 11:05	LD1	IC2	2	BXH2037
4	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	10	BXH2320
5	EPA-351.2	08/26/14	08/29/14 16:52	JP1	SC-1	2.500	BXH2311
6	EPA-350.1	09/02/14	09/03/14 09:45	JP1	SC-1	2	BXI0066
7	EPA-353.2	08/20/14	08/20/14 09:07	TDC	KONE-1	1	BXH1854
8	EPA-365.4	08/26/14	08/29/14 15:24	JP1	SC-1	2.500	BXH2313

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-03		Client Sample Name: ZZI-MW3A, 8/19/2014 12:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	74	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	260	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	460	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	2100	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	220	mg/L	5.0	0.67	EPA-300.0	ND	A01	3
Nitrate as N	ND	mg/L	1.0	0.25	EPA-300.0	ND	A10	3
Sulfate	3.8	mg/L	10	1.8	EPA-300.0	ND	J,A10	3
Total Dissolved Solids @ 180 C	2100	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	290	mg/L	20	5.3	EPA-351.2	ND	A01	5
Ammonia as N	300	mg/L	25	8.2	EPA-350.1	ND	A01	6
Nitrite as N	ND	mg/L	0.25	0.050	EPA-353.2	ND	A01	7
Total Phosphate	170	mg/L	15	9.2	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 21:31	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 22:38	RML	MET-1	2	BXH2188
3	EPA-300.0	08/21/14	08/21/14 05:32	LD1	IC2	10	BXH2037
4	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	20	BXH2320
5	EPA-351.2	08/26/14	09/02/14 08:18	JP1	SC-1	100	BXH2311
6	EPA-350.1	09/02/14	09/03/14 14:19	JP1	SC-1	250	BXI0067
7	EPA-353.2	08/20/14	08/20/14 09:29	TDC	KONE-1	5	BXH1854
8	EPA-365.4	08/26/14	08/29/14 15:56	JP1	SC-1	100	BXH2313

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-04	Client Sample Name: ZZI-MW5D, 8/19/2014 1:55:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	55	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	18	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	360	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.85	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	53	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	100	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.60	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.089	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 22:18	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 22:51	RML	MET-1	2	BXH2188
3	EPA-300.0	08/21/14	08/21/14 05:45	LD1	IC2	5	BXH2037
4	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	5	BXH2320
5	EPA-351.2	08/26/14	08/29/14 16:43	JP1	SC-1	1	BXH2311
6	EPA-350.1	09/02/14	09/03/14 12:44	JP1	SC-1	1	BXI0067
7	EPA-353.2	08/20/14	08/20/14 09:07	TDC	KONE-1	1	BXH1854
8	EPA-365.4	08/26/14	08/29/14 15:18	JP1	SC-1	1	BXH2313

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-05		Client Sample Name: ZZI-MW6D, 8/19/2014 2:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	62	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	7.6	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	360	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.69	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	550	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	19	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	170	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.50	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.017	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 22:21	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 22:58	RML	MET-1	2	BXH2188
3	EPA-300.0	08/21/14	08/21/14 20:44	OLH	IC2	1	BXH2037
4	EPA-300.0	08/21/14	08/21/14 05:58	LD1	IC2	5	BXH2037
5	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	5	BXH2320
6	EPA-351.2	08/26/14	08/29/14 16:45	JP1	SC-1	1	BXH2311
7	EPA-350.1	09/02/14	09/03/14 12:49	JP1	SC-1	1	BXI0067
8	EPA-353.2	08/20/14	08/20/14 09:07	TDC	KONE-1	1	BXH1854
9	EPA-365.4	08/26/14	08/29/14 15:19	JP1	SC-1	1	BXH2313

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-06		Client Sample Name: ZZI-MW7C, 8/19/2014 1:20:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	49	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	8.5	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	360	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.57	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	530	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	12	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	120	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.57	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.34	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	1.7	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 22:23	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 23:21	RML	MET-1	2	BXH2239
3	EPA-300.0	08/21/14	08/21/14 20:57	OLH	IC2	1	BXH2037
4	EPA-300.0	08/21/14	08/21/14 06:36	LD1	IC2	5	BXH2037
5	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	5	BXH2320
6	EPA-351.2	08/26/14	08/29/14 16:47	JP1	SC-1	1	BXH2311
7	EPA-350.1	09/02/14	09/03/14 12:51	JP1	SC-1	1	BXI0067
8	EPA-353.2	08/20/14	08/20/14 09:12	TDC	KONE-1	1	BXH1854
9	EPA-365.4	08/26/14	08/29/14 15:21	JP1	SC-1	1	BXH2313

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4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-07		Client Sample Name: ZZI-MW9D, 8/19/2014 10:40:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	19	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	3.4	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	100	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.42	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	19	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	7.0	mg/L	0.20	0.050	EPA-300.0	ND	A01	4
Sulfate	21	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	340	mg/L	20	20	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.19	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.12	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.26	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 22:26	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 23:34	RML	MET-1	1	BXH2239
3	EPA-300.0	08/21/14	08/21/14 21:10	OLH	IC2	1	BXH2037
4	EPA-300.0	08/21/14	08/21/14 06:49	LD1	IC2	2	BXH2037
5	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	2	BXH2320
6	EPA-351.2	08/26/14	08/29/14 16:48	JP1	SC-1	1	BXH2311
7	EPA-350.1	09/02/14	09/03/14 12:53	JP1	SC-1	1	BXI0067
8	EPA-353.2	08/20/14	08/20/14 09:13	TDC	KONE-1	1	BXH1854
9	EPA-365.4	08/26/14	08/29/14 15:22	JP1	SC-1	1	BXH2313

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Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419215-08		Client Sample Name: Field Duplicate #4, 8/19/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	18	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	2.8	mg/L	0.050	0.019	EPA-200.7	0.020		1
Dissolved Sodium	91	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.23	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	19	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	7.2	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	21	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	930	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.32	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.12	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.34	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 22:28	JRG	PE-OP1	1	BXH2416
2	SM-2320B	08/22/14	08/22/14 23:40	RML	MET-1	1	BXH2239
3	EPA-300.0	08/21/14	08/21/14 21:23	OLH	IC2	1	BXH2037
4	SM-2540C	08/25/14	08/25/14 12:00	CAD	MANUAL	2	BXH2320
5	EPA-351.2	08/26/14	08/29/14 16:40	JP1	SC-1	1	BXH2311
6	EPA-350.1	09/02/14	09/03/14 12:53	JP1	SC-1	1	BXI0067
7	EPA-353.2	08/20/14	08/20/14 09:13	TDC	KONE-1	1	BXH1854
8	EPA-365.4	08/26/14	08/29/14 15:16	JP1	SC-1	1	BXH2313

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1854						
Nitrite as N	BXH1854-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2037						
Chloride	BXH2037-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH2037-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2037-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2188						
Bicarbonate Alkalinity as CaCO3	BXH2188-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2188-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2188-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2239						
Bicarbonate Alkalinity as CaCO3	BXH2239-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2239-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2239-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2311						
Total Kjeldahl Nitrogen	BXH2311-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2313						
Total Phosphate	BXH2313-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2320						
Total Dissolved Solids @ 180 C	BXH2320-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2416						
Dissolved Calcium	BXH2416-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2416-BLK1	0.020440	mg/L	0.050	0.019	J
Dissolved Sodium	BXH2416-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2416-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI0066						
Ammonia as N	BXI0066-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0067						
Ammonia as N	BXI0067-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1854										
Nitrite as N	BXH1854-BS1	LCS	0.50376	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXH2037										
Chloride	BXH2037-BS1	LCS	50.124	50.000	mg/L	100		90 - 110		
Nitrate as N	BXH2037-BS1	LCS	5.0670	5.0000	mg/L	101		90 - 110		
Sulfate	BXH2037-BS1	LCS	101.32	100.00	mg/L	101		90 - 110		
QC Batch ID: BXH2311										
Total Kjeldahl Nitrogen	BXH2311-BS1	LCS	2.1274	2.0000	mg/L	106		90 - 110		
QC Batch ID: BXH2313										
Total Phosphate	BXH2313-BS1	LCS	2.9451	3.0660	mg/L	96.1		85 - 115		
QC Batch ID: BXH2320										
Total Dissolved Solids @ 180 C	BXH2320-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH2416										
Dissolved Calcium	BXH2416-BS1	LCS	9.4371	10.000	mg/L	94.4		85 - 115		
Dissolved Magnesium	BXH2416-BS1	LCS	10.077	10.000	mg/L	101		85 - 115		
Dissolved Sodium	BXH2416-BS1	LCS	10.015	10.000	mg/L	100		85 - 115		
Dissolved Potassium	BXH2416-BS1	LCS	9.5281	10.000	mg/L	95.3		85 - 115		
QC Batch ID: BXI0066										
Ammonia as N	BXI0066-BS1	LCS	0.94260	1.0000	mg/L	94.3		90 - 110		
QC Batch ID: BXI0067										
Ammonia as N	BXI0067-BS1	LCS	1.0148	1.0000	mg/L	101		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH1854		Used client sample: Y - Description: ZZI-MW1A, 08/19/2014 12:40								
Nitrite as N	DUP	1419215-01	0.038025	0.039051		mg/L	2.7		10	J
	MS	1419215-01	0.038025	0.55960	0.52632	mg/L		99.1	90 - 110	
	MSD	1419215-01	0.038025	0.56357	0.52632	mg/L	0.7	99.9	10 90 - 110	
QC Batch ID: BXH2037		Used client sample: Y - Description: ZZI-MW1A, 08/19/2014 12:40								
Chloride	DUP	419215-01RE2	215.14	215.69		mg/L	0.3		10	
	MS	419215-01RE2	215.14	314.56	101.01	mg/L		98.4	80 - 120	
	MSD	419215-01RE2	215.14	314.50	101.01	mg/L	0.0	98.4	10 80 - 120	
Nitrate as N	DUP	1419215-01RE2	0.74600	0.90800		mg/L	19.6		10	A02
	MS	1419215-01RE2	0.74600	11.798	10.101	mg/L		109	80 - 120	
	MSD	1419215-01RE2	0.74600	11.836	10.101	mg/L	0.3	110	10 80 - 120	
Sulfate	DUP	419215-01RE2	97.662	98.022		mg/L	0.4		10	
	MS	419215-01RE2	97.662	311.93	202.02	mg/L		106	80 - 120	
	MSD	419215-01RE2	97.662	312.92	202.02	mg/L	0.3	107	10 80 - 120	
QC Batch ID: BXH2188		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419211-11	79.410	79.410		mg/L	0		10	
Carbonate Alkalinity as CaCO3	DUP	1419211-11	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419211-11	ND	ND		mg/L			10	
QC Batch ID: BXH2239		Used client sample: Y - Description: ZZI-MW7C, 08/19/2014 13:20								
Bicarbonate Alkalinity as CaCO3	DUP	1419215-06	533.68	537.03		mg/L	0.6		10	
Carbonate Alkalinity as CaCO3	DUP	1419215-06	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419215-06	ND	ND		mg/L			10	
QC Batch ID: BXH2311		Used client sample: Y - Description: Field Duplicate #4, 08/19/2014 00:00								
Total Kjeldahl Nitrogen	DUP	1419215-08	0.32410	0.26190		mg/L	21.2		20	A02
	MS	1419215-08	0.32410	2.2004	2.0000	mg/L		93.8	90 - 110	
	MSD	1419215-08	0.32410	2.5029	2.0000	mg/L	12.9	109	20 90 - 110	
QC Batch ID: BXH2313		Used client sample: Y - Description: Field Duplicate #4, 08/19/2014 00:00								
Total Phosphate	DUP	1419215-08	0.33943	0.36886		mg/L	8.3		20	
	MS	1419215-08	0.33943	3.3740	3.0660	mg/L		99.0	80 - 120	
	MSD	1419215-08	0.33943	3.2719	3.0660	mg/L	3.1	95.6	20 80 - 120	
QC Batch ID: BXH2320		Used client sample: Y - Description: ZZI-MW1A, 08/19/2014 12:40								
Total Dissolved Solids @ 180 C	DUP	1419215-01	1290.0	1280.0		mg/L	0.8		10	
QC Batch ID: BXH2416		Used client sample: Y - Description: ZZI-MW1A, 08/19/2014 12:40								
Dissolved Calcium	DUP	1419215-01	162.65	161.22		mg/L	0.9		20	
	MS	1419215-01	162.65	169.73	10.204	mg/L		69.5	85 - 115	A03
	MSD	1419215-01	162.65	169.64	10.204	mg/L	0.1	68.6	20 85 - 115	A03

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2416		Used client sample: Y - Description: ZZI-MW1A, 08/19/2014 12:40								
Dissolved Magnesium	DUP	1419215-01	65.060	64.643		mg/L	0.6		20	
	MS	1419215-01	65.060	74.162	10.204	mg/L		89.2		85 - 115
	MSD	1419215-01	65.060	74.273	10.204	mg/L	0.2	90.3	20	85 - 115
Dissolved Sodium	DUP	1419215-01	315.71	317.87		mg/L	0.7		20	
	MS	1419215-01	315.71	322.47	10.204	mg/L		66.3		85 - 115 A03
	MSD	1419215-01	315.71	323.94	10.204	mg/L	0.5	80.6	20	85 - 115 A03
Dissolved Potassium	DUP	1419215-01	67.767	68.367		mg/L	0.9		20	
	MS	1419215-01	67.767	77.771	10.204	mg/L		98.0		85 - 115
	MSD	1419215-01	67.767	78.531	10.204	mg/L	1.0	105	20	85 - 115
QC Batch ID: BXI0066		Used client sample: N								
Ammonia as N	DUP	1419087-01	35.256	34.560		mg/L	2.0		10	
	MS	1419087-01	35.256	58.087	22.222	mg/L		103		90 - 110
	MSD	1419087-01	35.256	57.073	22.222	mg/L	1.8	98.2	10	90 - 110
QC Batch ID: BXI0067		Used client sample: Y - Description: ZZI-MW5D, 08/19/2014 13:55								
Ammonia as N	DUP	1419215-04	ND	0.034000		mg/L			10	J
	MS	1419215-04	ND	1.1284	1.1111	mg/L		102		90 - 110
	MSD	1419215-04	ND	1.1592	1.1111	mg/L	2.7	104	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 11:07
Project: Dairy Rep MP - Expanded Suite
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.



Date of Report: 09/08/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Holstein Farms Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419339
Invoice ID: B182571

Enclosed are the results of analyses for samples received by the laboratory on 8/20/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419339

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Name: Blaine Tech Services		Expanded Constituent Suite		From Unfiltered Sample:	
Address: 4731 Pell Drive #5		Project: Dairy Representative Monitoring Program		Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
City: Sacramento		Site: Holstein Farms Dairy		From Filtered Sample:	
State: CA		Samplers Name: V. Landi & T. Ball		Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	
Zip: 95838		Global ID -		From Filtered Sample:	
Attn: David Webb (916) 925-2913 x102		Date Sampled: 08/20/2014		Ammonia-N, NO3-N, NO2-N	
Date Sampled: 08/20/2014		Time Sampled: 0820		Matrix: GrW	
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Of Fe Unpreserved
1	HOL-MW1				x
2	HOL-MW2				x
3	HOL-MW3				x
4	Field Duplicate				x
5					x
6					x
7					x
8					x
9					x
10					x

SHOR-T HOLDING TIME	CHK-BY	DISTRIBUTION
Cr+6 (NO3) OP	MBAS	
DO CL2 ROD	MBAS	
COT		
		SUB-OUT

Relinquished by: (Signature)	Date & Time
<i>[Signature]</i>	08/20/14 2:00
Relinquished by: (Signature)	Date & Time
<i>[Signature]</i>	8/20/14 2:35
Relinquished by: (Signature)	Date & Time
<i>[Signature]</i>	

Comments:

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lundorff and Scalmani Consulting Engineers via email: llavegino@lsce.com, rbyson@lsce.com, pdhalliwal@lsce.com
- Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 1419339

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/20/14 2235
 Temperature: (A) 0.7 °C / (C) 0.9 °C Analyst Init: MW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE:										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 8-20-14 2230 IS:WPDocWordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 14:06
Project: Dairy Rep MP - Expanded Suite
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1419339-01	COC Number: ---	Receive Date: 08/20/2014 22:35
	Project Number: ---	Sampling Date: 08/20/2014 08:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: HOL-MW1	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 14:06
Project: Dairy Rep MP - Expanded Suite
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419339-01		Client Sample Name: HOL-MW1, 8/20/2014 8:20:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	36	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	2.5	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.59	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	42	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	11	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	99	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	460	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.26	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.052	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 21:07	JRG	PE-OP1	1	BXH2419
2	SM-2320B	08/25/14	08/25/14 15:05	RLP	MET-1	1	BXH2443
3	EPA-300.0	08/21/14	08/22/14 01:49	TMS	IC2	1	BXH2167
4	SM-2540C	08/25/14	08/25/14 15:00	CAD	MANUAL	3.333	BXH2393
5	EPA-351.2	08/28/14	09/04/14 12:14	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/05/14 07:52	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:15	TDC	KONE-1	1	BXH2073
8	EPA-365.4	08/29/14	09/04/14 09:39	JP1	SC-1	1	BXH2840

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 14:06
Project: Dairy Rep MP - Expanded Suite
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2073						
Nitrite as N	BXH2073-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2167						
Chloride	BXH2167-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH2167-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2167-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2393						
Total Dissolved Solids @ 180 C	BXH2393-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2419						
Dissolved Calcium	BXH2419-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2419-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2419-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2419-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2443						
Bicarbonate Alkalinity as CaCO3	BXH2443-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2443-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2443-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2839						
Total Kjeldahl Nitrogen	BXH2839-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2840						
Total Phosphate	BXH2840-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0329						
Ammonia as N	BXI0329-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 14:06
Project: Dairy Rep MP - Expanded Suite
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2073										
Nitrite as N	BXH2073-BS1	LCS	0.51339	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXH2167										
Chloride	BXH2167-BS1	LCS	49.066	50.000	mg/L	98.1		90 - 110		
Nitrate as N	BXH2167-BS1	LCS	4.9880	5.0000	mg/L	99.8		90 - 110		
Sulfate	BXH2167-BS1	LCS	99.320	100.00	mg/L	99.3		90 - 110		
QC Batch ID: BXH2393										
Total Dissolved Solids @ 180 C	BXH2393-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXH2419										
Dissolved Calcium	BXH2419-BS1	LCS	9.8191	10.000	mg/L	98.2		85 - 115		
Dissolved Magnesium	BXH2419-BS1	LCS	10.177	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2419-BS1	LCS	9.6534	10.000	mg/L	96.5		85 - 115		
Dissolved Potassium	BXH2419-BS1	LCS	9.2921	10.000	mg/L	92.9		85 - 115		
QC Batch ID: BXH2839										
Total Kjeldahl Nitrogen	BXH2839-BS1	LCS	1.8076	2.0000	mg/L	90.4		90 - 110		
QC Batch ID: BXH2840										
Total Phosphate	BXH2840-BS1	LCS	2.8927	3.0660	mg/L	94.3		85 - 115		
QC Batch ID: BXI0329										
Ammonia as N	BXI0329-BS1	LCS	0.94830	1.0000	mg/L	94.8		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 14:06
Project: Dairy Rep MP - Expanded Suite
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2073		Used client sample: N								
Nitrite as N	DUP	1419273-01	ND	ND		mg/L			10	
	MS	1419273-01	ND	0.52006	0.52632	mg/L		98.8	90 - 110	
	MSD	1419273-01	ND	0.51969	0.52632	mg/L	0.1	98.7	10	90 - 110
QC Batch ID: BXH2167		Used client sample: N								
Chloride	DUP	419344-01RE2	245.20	243.74		mg/L	0.6		10	
	MS	419344-01RE2	245.20	525.28	252.53	mg/L		111	80 - 120	
	MSD	419344-01RE2	245.20	525.31	252.53	mg/L	0.0	111	10	80 - 120
Nitrate as N	DUP	419344-01RE2	98.945	98.685		mg/L	0.3		10	
	MS	419344-01RE2	98.945	125.39	25.253	mg/L		105	80 - 120	
	MSD	419344-01RE2	98.945	124.95	25.253	mg/L	0.4	103	10	80 - 120
Sulfate	DUP	419344-01RE2	63.645	58.455		mg/L	8.5		10	
	MS	419344-01RE2	63.645	583.81	505.05	mg/L		103	80 - 120	
	MSD	419344-01RE2	63.645	577.03	505.05	mg/L	1.2	102	10	80 - 120
QC Batch ID: BXH2393		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1419340-01	1085.0	1075.0		mg/L	0.9		10	
QC Batch ID: BXH2419		Used client sample: N								
Dissolved Calcium	DUP	1419343-01	75.543	75.488		mg/L	0.1		20	
	MS	1419343-01	75.543	83.310	10.204	mg/L		76.1	85 - 115	A03
	MSD	1419343-01	75.543	84.264	10.204	mg/L	1.1	85.5	20	85 - 115
Dissolved Magnesium	DUP	1419343-01	139.00	138.62		mg/L	0.3		20	
	MS	1419343-01	139.00	148.91	10.204	mg/L		97.2	85 - 115	
	MSD	1419343-01	139.00	146.58	10.204	mg/L	1.6	74.3	20	85 - 115
Dissolved Sodium	DUP	1419343-01	359.54	356.94		mg/L	0.7		20	
	MS	1419343-01	359.54	358.71	10.204	mg/L		-8.2	85 - 115	A03
	MSD	1419343-01	359.54	364.83	10.204	mg/L	1.7	51.8	20	85 - 115
Dissolved Potassium	DUP	1419343-01	3.6948	3.6459		mg/L	1.3		20	
	MS	1419343-01	3.6948	14.309	10.204	mg/L		104	85 - 115	
	MSD	1419343-01	3.6948	14.520	10.204	mg/L	1.5	106	20	85 - 115
QC Batch ID: BXH2443		Used client sample: Y - Description: MAL-MW1, 08/20/2014 14:25								
Bicarbonate Alkalinity as CaCO3	DUP	1419338-01	487.13	490.48		mg/L	0.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419338-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419338-01	ND	ND		mg/L			10	
QC Batch ID: BXH2839		Used client sample: Y - Description: MAL-MW6, 08/20/2014 17:00								
Total Kjeldahl Nitrogen	DUP	1419338-06	0.67510	0.68270		mg/L	1.1		20	
	MS	1419338-06	0.67510	2.2134	2.0000	mg/L		76.9	90 - 110	Q03
	MSD	1419338-06	0.67510	2.1854	2.0000	mg/L	1.3	75.5	20	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 14:06
Project: Dairy Rep MP - Expanded Suite
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXH2840		Used client sample: Y - Description: MAL-MW6, 08/20/2014 17:00									
Total Phosphate	DUP	1419338-06	0.90514	0.95420		mg/L	5.3		20		
	MS	1419338-06	0.90514	3.9943	3.0660	mg/L		101		80 - 120	
	MSD	1419338-06	0.90514	3.8137	3.0660	mg/L	4.6	94.9	20	80 - 120	
QC Batch ID: BXI0329		Used client sample: Y - Description: MAL-MW4, 08/20/2014 15:05									
Ammonia as N	DUP	1419338-04	ND	ND		mg/L			10		
	MS	1419338-04	ND	1.0883	1.1111	mg/L		97.9		90 - 110	
	MSD	1419338-04	ND	1.0979	1.1111	mg/L	0.9	98.8	10	90 - 110	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/08/2014 14:06
Project: Dairy Rep MP - Expanded Suite
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.

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Date of Report: 09/02/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: J&A Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418699
Invoice ID: B182173

Enclosed are the results of analyses for samples received by the laboratory on 8/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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1418699-03 - JAD-MW5d	
Water Analysis (General Chemistry).....	9
1418699-04 - JAD-MW6d	
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Quality Control Reports

Water Analysis (General Chemistry)

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Case Narratives

Case Narrative for Work Order 1418699

Samples were filtered through a 0.45 micron filter for requested analyses.



14-18699

BC Laboratories, Inc.

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

Chain of Custody

Report to:

Name: Blaine Tech Services
Address: 4731 Pell Drive #5
City: Sacramento
State: Zip: 95838
Attn: David Webb (916) 925-2913 x102
Project: Dairy Representative Monitoring Program
Site: J & A Dairy
Samplers Name: V. Landoli
Global ID -

Analysis Requested

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Cl/Pc Unpreserved	From Filtered Sample:			From Unfiltered Sample:		
						Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
1	JAD-MW1					x	x	x	x	x	
2	JAD-MW2					x	x	x	x	x	
3	JAD-MW3	08/13/14	1000	FW-1		x	x	x	x	x	
4	JAD-MW4s, JAD-MW4d		1150	FW-2		x	x	x	x	x	
5	JAD-MW5s, JAD-MW5d		1115	FW-3		x	x	x	x	x	
6	JAD-MW6s, JAD-MW6d		1035	FW-4		x	x	x	x	x	
7	JAD-MW7s, JAD-MW7d					x	x	x	x	x	
8	Field Duplicate #2	08/13/14		GW-5		x	x	x	x	x	
9											
10											
11											

Comments:

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Luthdorff and Scainanini Consulting Engineers via email: llavagnino@isce.com, rbryson@isce.com, pdhalliwal@isce.com
- 4) Send bill to Blaine Tech Services, only.

Relinquished by: (Signature) *[Signature]*
 Relinquished by: (Signature) *[Signature]*
 Relinquished by: (Signature) *[Signature]*

Received By: *[Signature]* Date & Time: 08/13/14 02215
 Received by: *[Signature]* Date & Time: 8-13-14 2845
 Received By: *[Signature]* Date & Time:

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-18699

SHIPPING INFORMATION Federal Express UPS Hand Delivery BC Lab Field Service Other

SHIPPING CONTAINER Ice Chest None Box Other

FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals Ice Chest Containers None Comments:

All samples received? All samples containers intact? Description(s) match COC?

COC Received YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Temperature: (A) 3.6 (C) 3.8

Date/Time 8/13/14 2345 Analyst Init MWJ

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

SHIPPING HOLDING TIME DO NOT SIGN MEAS COC CHIEF DISTRIBUTION MWJ

Comments: Sample Numbering Completed By: MWJ Date/Time: 8/14/14 @ 0130



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1418699-01	COC Number:	---	Receive Date:	08/13/2014 23:45
	Project Number:	---	Sampling Date:	08/13/2014 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418699-02	COC Number:	---	Receive Date:	08/13/2014 23:45
	Project Number:	---	Sampling Date:	08/13/2014 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418699-03	COC Number:	---	Receive Date:	08/13/2014 23:45
	Project Number:	---	Sampling Date:	08/13/2014 11:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418699-04	COC Number:	---	Receive Date:	08/13/2014 23:45
	Project Number:	---	Sampling Date:	08/13/2014 10:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418699-05	COC Number:	---	Receive Date:	08/13/2014 23:45
	Project Number:	---	Sampling Date:	08/13/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418699-01		Client Sample Name: JAD-MW3, 8/13/2014 10:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	0.044		1
Dissolved Magnesium	17	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	78	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.94	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	330	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	22	mg/L	1.0	0.13	EPA-300.0	ND	A01	3
Nitrate as N	21	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	100	mg/L	2.0	0.36	EPA-300.0	0.54	A01	3
Total Dissolved Solids @ 180 C	700	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.088	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.62	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/24/14 22:24	JRG	PE-OP1	1	BXH1772
2	SM-2320B	08/19/14	08/19/14 18:40	RLP	MET-1	2	BXH1732
3	EPA-300.0	08/15/14	08/15/14 04:56	LD1	IC2	2	BXH1446
4	SM-2540C	08/19/14	08/19/14 14:30	CAD	MANUAL	3.333	BXH1722
5	EPA-351.2	08/19/14	08/20/14 14:46	JP1	SC-1	1	BXH1672
6	EPA-350.1	08/21/14	08/21/14 11:54	JP1	SC-1	1	BXH1996
7	EPA-353.2	08/14/14	08/14/14 09:43	TDC	KONE-1	1	BXH1489
8	EPA-365.4	08/19/14	08/20/14 13:28	JP1	SC-1	1	BXH1674

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418699-02		Client Sample Name: JAD-MW4d, 8/13/2014 11:50:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	0.044		1
Dissolved Magnesium	15	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	79	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.87	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	400	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	21	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	11	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	50	mg/L	1.0	0.18	EPA-300.0	0.27		3
Total Dissolved Solids @ 180 C	540	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.16	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/24/14 22:27	JRG	PE-OP1	1	BXH1772
2	SM-2320B	08/19/14	08/19/14 18:46	RLP	MET-1	1	BXH1732
3	EPA-300.0	08/15/14	08/15/14 08:47	LD1	IC2	1	BXH1446
4	SM-2540C	08/19/14	08/19/14 14:30	CAD	MANUAL	3.333	BXH1722
5	EPA-351.2	08/22/14	08/26/14 12:02	JP1	SC-1	1	BXH2138
6	EPA-350.1	08/21/14	08/21/14 11:59	JP1	SC-1	1	BXH1996
7	EPA-353.2	08/14/14	08/14/14 09:43	TDC	KONE-1	1	BXH1489
8	EPA-365.4	08/22/14	08/26/14 10:39	JP1	SC-1	1	BXH2140

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418699-03	Client Sample Name: JAD-MW5d, 8/13/2014 11:15:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	98	mg/L	0.10	0.016	EPA-200.7	0.044		1
Dissolved Magnesium	16	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	420	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	35	mg/L	0.50	0.067	EPA-300.0	0.22		3
Nitrate as N	15	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	82	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	680	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.78	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.9	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/24/14 22:29	JRG	PE-OP1	1	BXH1772
2	SM-2320B	08/19/14	08/19/14 18:53	RLP	MET-1	2	BXH1732
3	EPA-300.0	08/15/14	08/15/14 09:38	LD1	IC2	1	BXH1447
4	SM-2540C	08/19/14	08/19/14 14:30	CAD	MANUAL	3.333	BXH1722
5	EPA-351.2	08/22/14	08/26/14 12:04	JP1	SC-1	1	BXH2138
6	EPA-350.1	08/21/14	08/21/14 12:01	JP1	SC-1	1	BXH1996
7	EPA-353.2	08/14/14	08/14/14 09:43	TDC	KONE-1	1	BXH1489
8	EPA-365.4	08/22/14	08/26/14 10:41	JP1	SC-1	1	BXH2140

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418699-04		Client Sample Name: JAD-MW6d, 8/13/2014 10:35:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	200	mg/L	0.10	0.016	EPA-200.7	0.044		1
Dissolved Magnesium	14	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	370	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	60	mg/L	1.0	0.13	EPA-300.0	0.43	A01	3
Nitrate as N	35	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	180	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.13	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.2	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/24/14 22:31	JRG	PE-OP1	1	BXH1772
2	SM-2320B	08/19/14	08/19/14 19:32	RLP	MET-1	2	BXH1733
3	EPA-300.0	08/15/14	08/15/14 05:09	LD1	IC2	2	BXH1447
4	SM-2540C	08/19/14	08/19/14 14:30	CAD	MANUAL	5	BXH1722
5	EPA-351.2	08/22/14	08/26/14 12:05	JP1	SC-1	1	BXH2138
6	EPA-350.1	08/21/14	08/21/14 12:03	JP1	SC-1	1	BXH1996
7	EPA-353.2	08/14/14	08/14/14 09:43	TDC	KONE-1	1	BXH1489
8	EPA-365.4	08/22/14	08/26/14 10:42	JP1	SC-1	1	BXH2140

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418699-05		Client Sample Name: Field Duplicate #2, 8/13/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	18	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	80	mg/L	0.50	0.051	EPA-200.7	0.077		1
Dissolved Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	330	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	25	mg/L	1.0	0.13	EPA-300.0	0.29	A01	3
Nitrate as N	22	mg/L	0.20	0.050	EPA-300.0	ND	A01	4
Sulfate	110	mg/L	1.0	0.18	EPA-300.0	ND		5
Total Dissolved Solids @ 180 C	730	mg/L	33	33	SM-2540C	ND		6
Total Kjeldahl Nitrogen	0.24	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		8
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	0.54	mg/L	0.15	0.092	EPA-365.4	ND		10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/27/14 23:04	JRG	PE-OP1	1	BXH2411
2	SM-2320B	08/19/14	08/19/14 19:44	RLP	MET-1	2	BXH1733
3	EPA-300.0	08/15/14	08/18/14 16:53	LD1	IC5	2	BXH1593
4	EPA-300.0	08/15/14	08/15/14 21:52	LD1	IC5	2	BXH1593
5	EPA-300.0	08/15/14	08/15/14 21:19	LD1	IC5	1	BXH1593
6	SM-2540C	08/19/14	08/19/14 14:30	CAD	MANUAL	3.333	BXH1722
7	EPA-351.2	08/22/14	08/26/14 12:06	JP1	SC-1	1	BXH2138
8	EPA-350.1	08/21/14	08/21/14 12:03	JP1	SC-1	1	BXH1996
9	EPA-353.2	08/14/14	08/14/14 09:43	TDC	KONE-1	1	BXH1489
10	EPA-365.4	08/22/14	08/26/14 10:42	JP1	SC-1	1	BXH2140

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1446						
Chloride	BXH1446-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH1446-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1446-BLK1	0.27000	mg/L	1.0	0.18	J
QC Batch ID: BXH1447						
Chloride	BXH1447-BLK1	0.21600	mg/L	0.50	0.067	J
Nitrate as N	BXH1447-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1447-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1489						
Nitrite as N	BXH1489-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1593						
Chloride	BXH1593-BLK1	0.14500	mg/L	0.50	0.067	J
Nitrate as N	BXH1593-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1593-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1672						
Total Kjeldahl Nitrogen	BXH1672-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH1674						
Total Phosphate	BXH1674-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH1722						
Total Dissolved Solids @ 180 C	BXH1722-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1732						
Bicarbonate Alkalinity as CaCO3	BXH1732-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1732-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1732-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1733						
Bicarbonate Alkalinity as CaCO3	BXH1733-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1733-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1733-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1772						
Dissolved Calcium	BXH1772-BLK1	0.043656	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH1772-BLK1	ND	mg/L	0.050	0.019	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1772						
Dissolved Sodium	BXH1772-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH1772-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH1996						
Ammonia as N	BXH1996-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH2138						
Total Kjeldahl Nitrogen	BXH2138-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2140						
Total Phosphate	BXH2140-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2411						
Dissolved Calcium	BXH2411-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2411-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2411-BLK1	0.077132	mg/L	0.50	0.051	J
Dissolved Potassium	BXH2411-BLK1	ND	mg/L	1.0	0.10	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1446										
Chloride	BXH1446-BS1	LCS	49.535	50.000	mg/L	99.1		90 - 110		
Nitrate as N	BXH1446-BS1	LCS	5.1320	5.0000	mg/L	103		90 - 110		
Sulfate	BXH1446-BS1	LCS	101.23	100.00	mg/L	101		90 - 110		
QC Batch ID: BXH1447										
Chloride	BXH1447-BS1	LCS	48.130	50.000	mg/L	96.3		90 - 110		
Nitrate as N	BXH1447-BS1	LCS	5.0730	5.0000	mg/L	101		90 - 110		
Sulfate	BXH1447-BS1	LCS	96.499	100.00	mg/L	96.5		90 - 110		
QC Batch ID: BXH1489										
Nitrite as N	BXH1489-BS1	LCS	0.52946	0.50000	mg/L	106		90 - 110		
QC Batch ID: BXH1593										
Chloride	BXH1593-BS1	LCS	52.249	50.000	mg/L	104		90 - 110		
Nitrate as N	BXH1593-BS1	LCS	5.2140	5.0000	mg/L	104		90 - 110		
Sulfate	BXH1593-BS1	LCS	103.98	100.00	mg/L	104		90 - 110		
QC Batch ID: BXH1672										
Total Kjeldahl Nitrogen	BXH1672-BS1	LCS	2.0156	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1674										
Total Phosphate	BXH1674-BS1	LCS	3.1257	3.0660	mg/L	102		85 - 115		
QC Batch ID: BXH1722										
Total Dissolved Solids @ 180 C	BXH1722-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH1772										
Dissolved Calcium	BXH1772-BS1	LCS	9.6530	10.000	mg/L	96.5		85 - 115		
Dissolved Magnesium	BXH1772-BS1	LCS	10.000	10.000	mg/L	100		85 - 115		
Dissolved Sodium	BXH1772-BS1	LCS	9.4108	10.000	mg/L	94.1		85 - 115		
Dissolved Potassium	BXH1772-BS1	LCS	8.9898	10.000	mg/L	89.9		85 - 115		
QC Batch ID: BXH1996										
Ammonia as N	BXH1996-BS1	LCS	1.0343	1.0000	mg/L	103		90 - 110		
QC Batch ID: BXH2138										
Total Kjeldahl Nitrogen	BXH2138-BS1	LCS	2.0224	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXH2140										
Total Phosphate	BXH2140-BS1	LCS	3.2750	3.0660	mg/L	107		85 - 115		
QC Batch ID: BXH2411										
Dissolved Calcium	BXH2411-BS1	LCS	9.9131	10.000	mg/L	99.1		85 - 115		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BXH2411											
Dissolved Magnesium	BXH2411-BS1	LCS	10.179	10.000	mg/L	102		85	115		
Dissolved Sodium	BXH2411-BS1	LCS	9.8048	10.000	mg/L	98.0		85	115		
Dissolved Potassium	BXH2411-BS1	LCS	9.3560	10.000	mg/L	93.6		85	115		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH1446		Used client sample: N								
Chloride	DUP	418716-01RE	327.22	328.27		mg/L	0.3		10	
	MS	418716-01RE	327.22	614.96	252.53	mg/L		114		80 - 120
	MSD	418716-01RE	327.22	615.14	252.53	mg/L	0.0	114	10	80 - 120
Nitrate as N	DUP	418716-01RE	ND	ND		mg/L			10	
	MS	418716-01RE	ND	27.949	25.253	mg/L		111		80 - 120
	MSD	418716-01RE	ND	27.808	25.253	mg/L	0.5	110	10	80 - 120
Sulfate	DUP	418716-01RE	371.30	370.12		mg/L	0.3		10	
	MS	418716-01RE	371.30	938.98	505.05	mg/L		112		80 - 120
	MSD	418716-01RE	371.30	935.20	505.05	mg/L	0.4	112	10	80 - 120
QC Batch ID: BXH1447		Used client sample: N								
Chloride	DUP	418811-01RE	38.827	38.860		mg/L	0.1		10	
	MS	418811-01RE	38.827	99.020	50.505	mg/L		119		80 - 120
	MSD	418811-01RE	38.827	98.941	50.505	mg/L	0.1	119	10	80 - 120
Nitrate as N	DUP	418811-01RE	4.7400	4.7480		mg/L	0.2		10	
	MS	418811-01RE	4.7400	10.625	5.0505	mg/L		117		80 - 120
	MSD	418811-01RE	4.7400	10.649	5.0505	mg/L	0.2	117	10	80 - 120
Sulfate	DUP	418811-01RE	63.658	63.352		mg/L	0.5		10	
	MS	418811-01RE	63.658	178.98	101.01	mg/L		114		80 - 120
	MSD	418811-01RE	63.658	180.80	101.01	mg/L	1.0	116	10	80 - 120
QC Batch ID: BXH1489		Used client sample: Y - Description: JAD-MW3, 08/13/2014 10:00								
Nitrite as N	DUP	1418699-01	ND	ND		mg/L			10	
	MS	1418699-01	ND	0.51842	0.52632	mg/L		98.5		90 - 110
	MSD	1418699-01	ND	0.52322	0.52632	mg/L	0.9	99.4	10	90 - 110
QC Batch ID: BXH1593		Used client sample: N								
Chloride	DUP	418808-04RE	87.279	87.154		mg/L	0.1		10	
	MS	418808-04RE	87.279	136.56	50.505	mg/L		97.6		80 - 120
	MSD	418808-04RE	87.279	136.51	50.505	mg/L	0.0	97.5	10	80 - 120
Nitrate as N	DUP	418808-04RE	0.025000	0.026000		mg/L	3.9		10	J
	MS	418808-04RE	0.025000	5.2657	5.0505	mg/L		104		80 - 120
	MSD	418808-04RE	0.025000	5.2414	5.0505	mg/L	0.5	103	10	80 - 120
Sulfate	DUP	418808-04RE	20.717	20.594		mg/L	0.6		10	
	MS	418808-04RE	20.717	128.56	101.01	mg/L		107		80 - 120
	MSD	418808-04RE	20.717	128.42	101.01	mg/L	0.1	107	10	80 - 120
QC Batch ID: BXH1672		Used client sample: Y - Description: DUP-1, 08/11/2014 00:00								
Total Kjeldahl Nitrogen	DUP	1418367-04	0.092900	0.25120		mg/L	92.0		20	A02
	MS	1418367-04	0.092900	2.2346	2.0000	mg/L		107		90 - 110
	MSD	1418367-04	0.092900	2.2726	2.0000	mg/L	1.7	109	20	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes multiple QC Batch sections (BXH1674, BXH1722, BXH1732, BXH1733, BXH1772, BXH1996, BXH2138, BXH2140) with detailed analytical data for various parameters like Phosphate, Dissolved Solids, Alkalinity, Calcium, Magnesium, Sodium, Potassium, and Kjeldahl Nitrogen.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2140		Used client sample: N								
Total Phosphate	DUP	1419029-03	4.1480	4.2571		mg/L	2.6		20	
	MS	1419029-03	4.1480	7.4089	3.0660	mg/L		106		80 - 120
	MSD	1419029-03	4.1480	7.3990	3.0660	mg/L	0.1	106	20	80 - 120
QC Batch ID: BXH2411		Used client sample: N								
Dissolved Calcium	DUP	1418829-01	0.062292	0.059247		mg/L	5.0		20	J
	MS	1418829-01	0.062292	10.841	10.204	mg/L		106		85 - 115
	MSD	1418829-01	0.062292	10.563	10.204	mg/L	2.6	103	20	85 - 115
Dissolved Magnesium	DUP	1418829-01	0.067300	0.078798		mg/L	15.7		20	
	MS	1418829-01	0.067300	11.056	10.204	mg/L		108		85 - 115
	MSD	1418829-01	0.067300	11.051	10.204	mg/L	0.1	108	20	85 - 115
Dissolved Sodium	DUP	1418829-01	0.074069	0.067865		mg/L	8.7		20	J
	MS	1418829-01	0.074069	10.773	10.204	mg/L		105		85 - 115
	MSD	1418829-01	0.074069	10.547	10.204	mg/L	2.1	103	20	85 - 115
Dissolved Potassium	DUP	1418829-01	ND	ND		mg/L			20	
	MS	1418829-01	ND	10.392	10.204	mg/L		102		85 - 115
	MSD	1418829-01	ND	10.106	10.204	mg/L	2.8	99.0	20	85 - 115

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 17:07
Project: Dairy Rep MP - Expanded Suite
Project Number: J&A Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.



Date of Report: 08/29/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Longfellow Farming co
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418837
Invoice ID: B182049

Enclosed are the results of analyses for samples received by the laboratory on 8/14/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1418837

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:		Analysis Requested			
Blaine Tech Services		Expanded Constituent Suite		From Filtered Sample:	From Unfiltered Sample:
Name:		Project: Dairy Representative Monitoring Program		Na, K, Mg, Ca, Cl, SO ₄ (as SO ₄), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO ₄), Alkalinity (HCO ₃ , CO ₃ & OH) as CaCO ₃
Address: 4731 Pell Drive #5		Site: Longfellow Farming Co.			
City: Sacramento		Samplers Name: V. Landi			
State: 95838		Global ID: -			
CA					
Attn: David Webb (916) 925-2913 x102					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1 Pe Unpreserved
1	LON-MW1A, LON-MW1B LON-MW1C	08/14/14	1020	GW	x
2	LON-MW2A, LON-MW2B LON-MW2C		1155	GW	x
3	LON-MW3A, LON-MW3B LON-MW3C		1110	GW	x
4	LON-MW4A, LON-MW4B LON-MW4C, LON-MW4D		1300	GW	x
5	LON-MW5A, LON-MW5B LON-MW5C		1330	GW	x
6	LON-MW6A, LON-MW6B LON-MW6C		1350	GW	x
7	LON-MW7A, LON-MW7B LON-MW7C, LON-MW7D		1220	GW	x
8	Field Duplicate				x
9					
10					
11					

Relinquished by: (Signature)	Received By: (Signature)	Date & Time
V. Landi	Red Dickey	08/14/14 1640
Relinquished by: (Signature)	Received By: (Signature)	Date & Time
Red Dickey 8/14/14 180	Red Dickey	8-14-14 18:50
Relinquished by: (Signature)	Received By: (Signature)	Date & Time
Red Dickey	Red Dickey	8/14/14 0500

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lhundorf and Scalmani Consulting Engineers via email: lavagnino@lscce.com, rbyson@lscce.com, pdhallival@lscce.com
 4) Send bill to Blaine Tech Services, only.

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-18837

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>	
--	--	---	--	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time 8-14-14 2300
 Temperature: (A) 1.3 °C / (C) 1.5 °C Analyst Init N

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		A,B,C	A,B,C	B	A,C	A,B	A,B,C			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: JSolau

Sample Numbering Completed By: TSP Date/Time: 8/15/14 0630

A = Actual / C = Corrected

SPENT HOLDING TIME
 0-6 C INQ OP SS
 DO NOT REAS OUT

CHKDC DISTRIBUTION
 WMA



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-18837

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207
 Temperature: (A) 1d °C / (C) 1.3 °C

Date/Time 8/14/14 2300
 Analyst Init N

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A, B, C			A, C	B	C				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: TSR Date/Time: 8/15/14 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1418837-01	COC Number:	---	Receive Date:	08/14/2014 23:00
	Project Number:	---	Sampling Date:	08/14/2014 10:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW1B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418837-02	COC Number:	---	Receive Date:	08/14/2014 23:00
	Project Number:	---	Sampling Date:	08/14/2014 11:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW2C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418837-03	COC Number:	---	Receive Date:	08/14/2014 23:00
	Project Number:	---	Sampling Date:	08/14/2014 11:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW3B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418837-04	COC Number:	---	Receive Date:	08/14/2014 23:00
	Project Number:	---	Sampling Date:	08/14/2014 13:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW4C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418837-05	COC Number:	---	Receive Date:	08/14/2014 23:00
	Project Number:	---	Sampling Date:	08/14/2014 13:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW5C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1418837-06	COC Number:	---	Receive Date:	08/14/2014 23:00
	Project Number:	---	Sampling Date:	08/14/2014 13:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW6C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418837-07	COC Number:	---	Receive Date:	08/14/2014 23:00
	Project Number:	---	Sampling Date:	08/14/2014 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW7D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418837-01	Client Sample Name: LON-MW1B, 8/14/2014 10:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	97	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	7.0	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	260	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	100	mg/L	0.50	0.067	EPA-300.0	0.13		3
Nitrate as N	23	mg/L	0.20	0.050	EPA-300.0	ND	A01,S05	4
Sulfate	51	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	620	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:15	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/20/14	08/20/14 11:43	RLP	MET-1	2	BXH1969
3	EPA-300.0	08/16/14	08/16/14 18:39	LD1	IC1	1	BXH1546
4	EPA-300.0	08/16/14	08/18/14 04:10	LD1	IC1	2	BXH1546
5	SM-2540C	08/21/14	08/21/14 10:30	CAD	KONE-1	3.333	BXH1979
6	EPA-351.2	08/21/14	08/26/14 11:47	JP1	SC-1	1	BXH2091
7	EPA-350.1	08/21/14	08/21/14 12:19	JP1	SC-1	1	BXH1997
8	EPA-353.2	08/15/14	08/15/14 10:21	TDC	KONE-1	1	BXH1535
9	EPA-365.4	08/21/14	08/26/14 10:30	JP1	SC-1	1	BXH2093

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Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418837-02	Client Sample Name: LON-MW2C, 8/14/2014 11:55:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	12	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	190	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.90	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	520	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	200	mg/L	1.0	0.13	EPA-300.0	0.31	A01	3
Nitrate as N	10	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	33	mg/L	2.0	0.36	EPA-300.0	0.54	A01	3
Total Dissolved Solids @ 180 C	820	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.18	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.031	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:27	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/20/14	08/20/14 10:47	RLP	MET-1	2	BXH1969
3	EPA-300.0	08/16/14	08/16/14 12:19	LD1	IC2	2	BXH1553
4	SM-2540C	08/21/14	08/21/14 10:30	CAD	KONE-1	5	BXH1979
5	EPA-351.2	08/21/14	08/26/14 11:39	JP1	SC-1	1	BXH2091
6	EPA-350.1	08/21/14	08/21/14 12:21	JP1	SC-1	1	BXH1997
7	EPA-353.2	08/15/14	08/15/14 10:21	TDC	KONE-1	1	BXH1535
8	EPA-365.4	08/21/14	08/26/14 10:24	JP1	SC-1	1	BXH2093

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Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418837-03	Client Sample Name: LON-MW3B, 8/14/2014 11:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	6.4	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	160	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.66	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	250	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	200	mg/L	1.0	0.13	EPA-300.0	0.31	A01	3
Nitrate as N	6.0	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	100	mg/L	1.0	0.18	EPA-300.0	0.27		4
Total Dissolved Solids @ 180 C	760	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.11	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.26	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:29	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/20/14	08/20/14 11:50	RLP	MET-1	2	BXH1969
3	EPA-300.0	08/16/14	08/18/14 00:27	LD1	IC2	2	BXH1553
4	EPA-300.0	08/16/14	08/16/14 12:06	LD1	IC2	1	BXH1553
5	SM-2540C	08/21/14	08/21/14 10:30	CAD	KONE-1	5	BXH1979
6	EPA-351.2	08/21/14	08/26/14 11:35	JP1	SC-1	1	BXH2091
7	EPA-350.1	08/21/14	08/21/14 12:23	JP1	SC-1	1	BXH1997
8	EPA-353.2	08/15/14	08/15/14 10:21	TDC	KONE-1	1	BXH1535
9	EPA-365.4	08/21/14	08/26/14 10:22	JP1	SC-1	1	BXH2093

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Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418837-04		Client Sample Name: LON-MW4C, 8/14/2014 1:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	240	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	19	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	260	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.96	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	350	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	330	mg/L	1.0	0.13	EPA-300.0	0.34	A01	3
Nitrate as N	50	mg/L	0.20	0.050	EPA-300.0	0.066	A01,S01	3
Sulfate	200	mg/L	2.0	0.36	EPA-300.0	0.51	A01	3
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.034	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.012	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:39	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/20/14	08/20/14 11:58	RLP	MET-1	2	BXH1969
3	EPA-300.0	08/16/14	08/16/14 13:08	LD1	IC1	2	BXH1548
4	SM-2540C	08/21/14	08/21/14 10:30	CAD	KONE-1	10	BXH1979
5	EPA-351.2	08/21/14	08/26/14 11:40	JP1	SC-1	1	BXH2091
6	EPA-350.1	08/21/14	08/21/14 12:25	JP1	SC-1	1	BXH1997
7	EPA-353.2	08/15/14	08/15/14 10:21	TDC	KONE-1	1	BXH1535
8	EPA-365.4	08/21/14	08/26/14 10:25	JP1	SC-1	1	BXH2093

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Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418837-05		Client Sample Name: LON-MW5C, 8/14/2014 1:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	11	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	280	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.99	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	380	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	290	mg/L	1.0	0.13	EPA-300.0	0.29	A01	3
Nitrate as N	33	mg/L	0.20	0.050	EPA-300.0	ND	A01,S05	3
Sulfate	110	mg/L	1.0	0.18	EPA-300.0	0.26		4
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.073	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	0.040	mg/L	0.10	0.033	EPA-350.1	0.035	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:41	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/20/14	08/20/14 12:57	RLP	MET-1	2	BXH1970
3	EPA-300.0	08/20/14	08/20/14 20:11	OLH	IC2	2	BXH2026
4	EPA-300.0	08/16/14	08/18/14 01:41	LD1	IC1	1	BXH1548
5	SM-2540C	08/21/14	08/21/14 10:30	CAD	KONE-1	5	BXH1979
6	EPA-351.2	08/21/14	08/26/14 11:42	JP1	SC-1	1	BXH2091
7	EPA-350.1	08/21/14	08/21/14 15:13	JP1	SC-1	1	BXH2035
8	EPA-353.2	08/15/14	08/15/14 10:21	TDC	KONE-1	1	BXH1535
9	EPA-365.4	08/21/14	08/26/14 10:26	JP1	SC-1	1	BXH2093

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Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418837-06		Client Sample Name: LON-MW6C, 8/14/2014 1:50:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	8.6	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.78	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	120	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	350	mg/L	1.0	0.13	EPA-300.0	0.29	A01	3
Nitrate as N	15	mg/L	0.10	0.025	EPA-300.0	0.033	S05	4
Sulfate	59	mg/L	1.0	0.18	EPA-300.0	0.26		4
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.094	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	0.035	J	7
Nitrite as N	0.012	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	0.56	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:44	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/20/14	08/20/14 13:44	RLP	MET-1	2	BXH1970
3	EPA-300.0	08/20/14	08/20/14 20:24	OLH	IC2	2	BXH2026
4	EPA-300.0	08/16/14	08/18/14 01:56	LD1	IC1	1	BXH1548
5	SM-2540C	08/21/14	08/21/14 10:30	CAD	KONE-1	5	BXH1979
6	EPA-351.2	08/21/14	08/26/14 11:44	JP1	SC-1	1	BXH2091
7	EPA-350.1	08/21/14	08/21/14 15:18	JP1	SC-1	1	BXH2035
8	EPA-353.2	08/15/14	08/15/14 10:23	TDC	KONE-1	1	BXH1535
9	EPA-365.4	08/21/14	08/26/14 10:27	JP1	SC-1	1	BXH2093

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Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418837-07		Client Sample Name: LON-MW7D, 8/14/2014 12:20:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	190	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	18	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	270	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	390	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	280	mg/L	1.0	0.13	EPA-300.0	0.34	A01	3
Nitrate as N	56	mg/L	0.20	0.050	EPA-300.0	0.066	A01,S01	3
Sulfate	130	mg/L	2.0	0.36	EPA-300.0	0.51	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.066	mg/L	0.10	0.033	EPA-350.1	0.035	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.12	mg/L	0.15	0.092	EPA-365.4	ND	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:46	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/20/14	08/20/14 13:04	RLP	MET-1	2	BXH1970
3	EPA-300.0	08/16/14	08/16/14 12:53	LD1	IC1	2	BXH1548
4	SM-2540C	08/21/14	08/21/14 10:30	CAD	KONE-1	10	BXH1979
5	EPA-351.2	08/21/14	08/26/14 11:44	JP1	SC-1	1	BXH2091
6	EPA-350.1	08/21/14	08/21/14 15:18	JP1	SC-1	1	BXH2035
7	EPA-353.2	08/15/14	08/15/14 10:23	TDC	KONE-1	1	BXH1535
8	EPA-365.4	08/21/14	08/26/14 10:28	JP1	SC-1	1	BXH2093

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1535						
Nitrite as N	BXH1535-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1546						
Chloride	BXH1546-BLK1	0.13000	mg/L	0.50	0.067	J
Nitrate as N	BXH1546-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1546-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1548						
Chloride	BXH1548-BLK1	0.17200	mg/L	0.50	0.067	J
Nitrate as N	BXH1548-BLK1	0.033000	mg/L	0.10	0.025	J
Sulfate	BXH1548-BLK1	0.25600	mg/L	1.0	0.18	J
QC Batch ID: BXH1553						
Chloride	BXH1553-BLK1	0.15500	mg/L	0.50	0.067	J
Nitrate as N	BXH1553-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1553-BLK1	0.27200	mg/L	1.0	0.18	J
QC Batch ID: BXH1969						
Bicarbonate Alkalinity as CaCO3	BXH1969-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1969-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1969-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1970						
Bicarbonate Alkalinity as CaCO3	BXH1970-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1970-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1970-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1979						
Total Dissolved Solids @ 180 C	BXH1979-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1997						
Ammonia as N	BXH1997-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH2026						
Chloride	BXH2026-BLK1	0.14500	mg/L	0.50	0.067	J
Nitrate as N	BXH2026-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXH2035						
Ammonia as N	BXH2035-BLK1	0.035200	mg/L	0.10	0.033	J

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2091						
Total Kjeldahl Nitrogen	BXH2091-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2093						
Total Phosphate	BXH2093-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2412						
Dissolved Calcium	BXH2412-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2412-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2412-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2412-BLK1	ND	mg/L	1.0	0.10	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1535										
Nitrite as N	BXH1535-BS1	LCS	0.48689	0.50000	mg/L	97.4		90 - 110		
QC Batch ID: BXH1546										
Chloride	BXH1546-BS1	LCS	48.101	50.000	mg/L	96.2		90 - 110		
Nitrate as N	BXH1546-BS1	LCS	4.8130	5.0000	mg/L	96.3		90 - 110		
Sulfate	BXH1546-BS1	LCS	96.341	100.00	mg/L	96.3		90 - 110		
QC Batch ID: BXH1548										
Chloride	BXH1548-BS1	LCS	48.179	50.000	mg/L	96.4		90 - 110		
Nitrate as N	BXH1548-BS1	LCS	4.8190	5.0000	mg/L	96.4		90 - 110		
Sulfate	BXH1548-BS1	LCS	96.595	100.00	mg/L	96.6		90 - 110		
QC Batch ID: BXH1553										
Chloride	BXH1553-BS1	LCS	47.031	50.000	mg/L	94.1		90 - 110		
Nitrate as N	BXH1553-BS1	LCS	4.9170	5.0000	mg/L	98.3		90 - 110		
Sulfate	BXH1553-BS1	LCS	95.119	100.00	mg/L	95.1		90 - 110		
QC Batch ID: BXH1979										
Total Dissolved Solids @ 180 C	BXH1979-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110		
QC Batch ID: BXH1997										
Ammonia as N	BXH1997-BS1	LCS	1.0735	1.0000	mg/L	107		90 - 110		
QC Batch ID: BXH2026										
Chloride	BXH2026-BS1	LCS	48.222	50.000	mg/L	96.4		90 - 110		
Nitrate as N	BXH2026-BS1	LCS	5.3720	5.0000	mg/L	107		90 - 110		
QC Batch ID: BXH2035										
Ammonia as N	BXH2035-BS1	LCS	1.0974	1.0000	mg/L	110		90 - 110		
QC Batch ID: BXH2091										
Total Kjeldahl Nitrogen	BXH2091-BS1	LCS	2.1574	2.0000	mg/L	108		90 - 110		
QC Batch ID: BXH2093										
Total Phosphate	BXH2093-BS1	LCS	3.2094	3.0660	mg/L	105		85 - 115		
QC Batch ID: BXH2412										
Dissolved Calcium	BXH2412-BS1	LCS	9.8154	10.000	mg/L	98.2		85 - 115		
Dissolved Magnesium	BXH2412-BS1	LCS	10.219	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2412-BS1	LCS	9.6760	10.000	mg/L	96.8		85 - 115		
Dissolved Potassium	BXH2412-BS1	LCS	9.2116	10.000	mg/L	92.1		85 - 115		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs BXH1535, BXH1546, BXH1548, BXH1553, and BXH1969.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH1970		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1418847-01	124.90	123.99		mg/L	0.7		10	
Carbonate Alkalinity as CaCO3	DUP	1418847-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418847-01	ND	ND		mg/L			10	
QC Batch ID: BXH1979		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1418936-01	19200	18900		mg/L	1.6		10	
QC Batch ID: BXH1997		Used client sample: N								
Ammonia as N	DUP	1418716-01	0.31310	0.30280		mg/L	3.3		10	
	MS	1418716-01	0.31310	1.4084	1.1111	mg/L		98.6		90 - 110
	MSD	1418716-01	0.31310	1.3794	1.1111	mg/L	2.1	96.0	10	90 - 110
QC Batch ID: BXH2026		Used client sample: N								
Chloride	DUP	1419162-01	75.512	75.416		mg/L	0.1		10	
	MS	1419162-01	75.512	130.95	50.505	mg/L		110		80 - 120
	MSD	1419162-01	75.512	131.15	50.505	mg/L	0.2	110	10	80 - 120
Nitrate as N	DUP	1419162-01	10.699	10.101		mg/L	5.7		10	
	MS	1419162-01	10.699	16.156	5.0505	mg/L		108		80 - 120
	MSD	1419162-01	10.699	16.122	5.0505	mg/L	0.2	107	10	80 - 120
QC Batch ID: BXH2035		Used client sample: Y - Description: LON-MW5C, 08/14/2014 13:30								
Ammonia as N	DUP	1418837-05	0.040200	ND		mg/L			10	
	MS	1418837-05	0.040200	1.2114	1.1111	mg/L		105		90 - 110
	MSD	1418837-05	0.040200	1.1924	1.1111	mg/L	1.6	104	10	90 - 110
QC Batch ID: BXH2091		Used client sample: Y - Description: LON-MW3B, 08/14/2014 11:10								
Total Kjeldahl Nitrogen	DUP	1418837-03	0.10970	0.15870		mg/L	36.5		20	J,A02
	MS	1418837-03	0.10970	1.9514	2.0000	mg/L		92.1		90 - 110
	MSD	1418837-03	0.10970	1.9804	2.0000	mg/L	1.5	93.5	20	90 - 110
QC Batch ID: BXH2093		Used client sample: Y - Description: LON-MW3B, 08/14/2014 11:10								
Total Phosphate	DUP	1418837-03	ND	ND		mg/L			20	
	MS	1418837-03	ND	3.0487	3.0660	mg/L		99.4		80 - 120
	MSD	1418837-03	ND	3.0745	3.0660	mg/L	0.8	100	20	80 - 120
QC Batch ID: BXH2412		Used client sample: Y - Description: LON-MW1B, 08/14/2014 10:20								
Dissolved Calcium	DUP	1418837-01	97.313	97.518		mg/L	0.2		20	
	MS	1418837-01	97.313	106.47	10.204	mg/L		89.8		85 - 115
	MSD	1418837-01	97.313	108.04	10.204	mg/L	1.5	105	20	85 - 115
Dissolved Magnesium	DUP	1418837-01	6.9791	6.9715		mg/L	0.1		20	
	MS	1418837-01	6.9791	17.129	10.204	mg/L		99.5		85 - 115
	MSD	1418837-01	6.9791	17.700	10.204	mg/L	3.3	105	20	85 - 115

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXH2412		Used client sample: Y - Description: LON-MW1B, 08/14/2014 10:20									
Dissolved Sodium	DUP	1418837-01	120.28	119.91		mg/L	0.3		20		
	MS	1418837-01	120.28	129.18	10.204	mg/L		87.2		85 - 115	
	MSD	1418837-01	120.28	131.54	10.204	mg/L	1.8	110	20	85 - 115	
Dissolved Potassium	DUP	1418837-01	1.0969	1.0919		mg/L	0.5		20		
	MS	1418837-01	1.0969	11.483	10.204	mg/L		102		85 - 115	
	MSD	1418837-01	1.0969	11.761	10.204	mg/L	2.4	105	20	85 - 115	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 08/29/2014 17:13
Project: Dairy Rep MP - Expanded Suite
Project Number: Longfellow Farming co
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- S01 Sample result is not within the quantitation range of the method.
- S05 The sample holding time was exceeded.



Date of Report: 09/12/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Machado Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419538
Invoice ID: B182579

Enclosed are the results of analyses for samples received by the laboratory on 8/22/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419538

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19538

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Name: Blaine Tech Services
Address: 4731 Pell Drive #5
City: Sacramento
State: CA
Zip: 95838
Attn: David Webb (916) 925-2913 x102
Samplers Name: V. Lodi / T. Bell
Global ID -

Analysis Requested

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	From Filtered Sample:		From Filtered Sample:		From Unfiltered Sample:	
					Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
- 1	ABQ-MW4s, ADO-MW1d <u>ITB</u>	08/22/14	0950	GW	x	x	x	x	x	x
- 2	ADO-MW2e, ADO-MW2d <u>ITB</u>	08/22/14	0905	GW	x	x	x	x	x	x
3	Field Duplicate				x	x	x	x	x	x
4										
5										
6										
7										
8										
9										
10										

SHORT HOLDING TIME	
Cr+6	NO3
NO2	OP
SS	
DO	CL
BOD	MBAS
COT	

CHK BY DISTRIBUTION	
MWA	MALM
	SUB-OUT

Comments:

- 1) Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lufdorf and Scalmani Consulting Engineers via email: llavegnino@isce.com, rboyson@isce.com, pdhailwal@isce.com
- 4) Send bill to Blaine Tech Services, only.

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Received By: *[Signature]* Date & Time: 08/22/14 @ 1725

Received By: *[Signature]* Date & Time: 8/22/14 18:00

Received By: *[Signature]* Date & Time: 8/22/14 2130

(A)= Analysis (C)= Container (P)= Preservative



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-19538

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.97 Container: PB Thermometer ID: 207 Date/Time: 8-22-14 2:50
 Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL / GENERAL	ABC	ABC								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 8/22/14 @ 2:50 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16]
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1419538-01	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ADO-MW1d Sampled By: ---	Receive Date: 08/22/2014 21:30 Sampling Date: 08/22/2014 09:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: Location ID (FieldPoint): Matrix: Sample QC Type (SACode): Cooler ID:
-------------------	--	--

1419538-02	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ADO-MW2d Sampled By: ---	Receive Date: 08/22/2014 21:30 Sampling Date: 08/22/2014 09:05 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: Location ID (FieldPoint): Matrix: Sample QC Type (SACode): Cooler ID:
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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419538-01		Client Sample Name: ADO-MW1d, 8/22/2014 9:50:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	61	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	42	mg/L	0.50	0.051	EPA-200.7	0.12		1
Dissolved Potassium	6.9	mg/L	1.0	0.10	EPA-200.7	0.17		1
Bicarbonate Alkalinity as CaCO3	420	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	48	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	18	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	47	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	660	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.40	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/08/14 01:32	JRG	PE-OP1	1	BXI0526
2	SM-2320B	08/27/14	08/27/14 13:02	RML	MET-1	2	BXH2610
3	EPA-300.0	08/22/14	08/23/14 11:44	LD1	IC2	1	BXH2265
4	SM-2540C	08/28/14	08/28/14 14:00	CAD	MANUAL	3.333	BXH2829
5	EPA-351.2	09/03/14	09/06/14 16:12	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:41	JP1	SC-1	1	BXI0556
7	EPA-353.2	08/23/14	08/23/14 10:32	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 14:42	JP1	SC-1	1	BXI0167

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419538-02		Client Sample Name: ADO-MW2d, 8/22/2014 9:05:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	93	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	50	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	46	mg/L	0.50	0.051	EPA-200.7	0.12		1
Dissolved Potassium	7.0	mg/L	1.0	0.10	EPA-200.7	0.17		1
Bicarbonate Alkalinity as CaCO3	380	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	36	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	46	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	590	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	2.1	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.058	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.53	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/08/14 01:45	JRG	PE-OP1	1	BXI0526
2	SM-2320B	08/27/14	08/27/14 13:08	RML	MET-1	1	BXH2610
3	EPA-300.0	08/22/14	08/23/14 11:56	LD1	IC2	1	BXH2265
4	SM-2540C	08/28/14	08/28/14 14:00	CAD	MANUAL	3.333	BXH2829
5	EPA-351.2	09/03/14	09/06/14 16:12	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:48	JP1	SC-1	1	BXI0556
7	EPA-353.2	08/23/14	08/23/14 10:32	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 14:42	JP1	SC-1	1	BXI0167

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2265						
Chloride	BXH2265-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH2265-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2265-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2610						
Bicarbonate Alkalinity as CaCO3	BXH2610-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2610-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2610-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2662						
Nitrite as N	BXH2662-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2829						
Total Dissolved Solids @ 180 C	BXH2829-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0166						
Total Kjeldahl Nitrogen	BXI0166-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0167						
Total Phosphate	BXI0167-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0526						
Dissolved Calcium	BXI0526-BLK2	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI0526-BLK2	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0526-BLK2	0.12028	mg/L	0.50	0.051	J
Dissolved Potassium	BXI0526-BLK2	0.16814	mg/L	1.0	0.10	J
QC Batch ID: BXI0556						
Ammonia as N	BXI0556-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2265										
Chloride	BXH2265-BS1	LCS	47.723	50.000	mg/L	95.4		90 - 110		
Nitrate as N	BXH2265-BS1	LCS	5.3990	5.0000	mg/L	108		90 - 110		
Sulfate	BXH2265-BS1	LCS	96.651	100.00	mg/L	96.7		90 - 110		
QC Batch ID: BXH2662										
Nitrite as N	BXH2662-BS1	LCS	0.53894	0.50000	mg/L	108		90 - 110		
QC Batch ID: BXH2829										
Total Dissolved Solids @ 180 C	BXH2829-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXI0166										
Total Kjeldahl Nitrogen	BXI0166-BS1	LCS	2.0636	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI0167										
Total Phosphate	BXI0167-BS1	LCS	2.9442	3.0660	mg/L	96.0		85 - 115		
QC Batch ID: BXI0526										
Dissolved Calcium	BXI0526-BS2	LCS	9.7415	10.000	mg/L	97.4		85 - 115		
Dissolved Magnesium	BXI0526-BS2	LCS	10.258	10.000	mg/L	103		85 - 115		
Dissolved Sodium	BXI0526-BS2	LCS	9.6037	10.000	mg/L	96.0		85 - 115		
Dissolved Potassium	BXI0526-BS2	LCS	9.2831	10.000	mg/L	92.8		85 - 115		
QC Batch ID: BXI0556										
Ammonia as N	BXI0556-BS1	LCS	1.0253	1.0000	mg/L	103		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2265		Used client sample: N								
Chloride	DUP	419459-02RE	298.04	296.49		mg/L	0.5		10	
	MS	419459-02RE	298.04	393.05	101.01	mg/L		94.1		80 - 120
	MSD	419459-02RE	298.04	393.14	101.01	mg/L	0.0	94.1	10	80 - 120
Nitrate as N	DUP	I419459-02RE1	ND	ND		mg/L			10	
	MS	I419459-02RE1	ND	12.689	10.101	mg/L		126		80 - 120 Q03
	MSD	I419459-02RE1	ND	12.673	10.101	mg/L	0.1	125	10	80 - 120 Q03
Sulfate	DUP	419459-02RE	240.54	241.35		mg/L	0.3		10	
	MS	419459-02RE	240.54	452.95	202.02	mg/L		105		80 - 120
	MSD	419459-02RE	240.54	452.69	202.02	mg/L	0.1	105	10	80 - 120
QC Batch ID: BXH2610		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419726-01	134.49	136.62		mg/L	1.6		10	
Carbonate Alkalinity as CaCO3	DUP	1419726-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419726-01	ND	ND		mg/L			10	
QC Batch ID: BXH2662		Used client sample: Y - Description: ADO-MW1d, 08/22/2014 09:50								
Nitrite as N	DUP	1419538-01	ND	ND		mg/L			10	
	MS	1419538-01	ND	0.51947	0.52632	mg/L		98.7		90 - 110
	MSD	1419538-01	ND	0.51392	0.52632	mg/L	1.1	97.6	10	90 - 110
QC Batch ID: BXH2829		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1419491-05	20400	20400		mg/L	0		10	
QC Batch ID: BXI0166		Used client sample: N								
Total Kjeldahl Nitrogen	DUP	1419467-03	ND	ND		mg/L			20	
	MS	1419467-03	ND	1.8747	2.0000	mg/L		93.7		90 - 110
	MSD	1419467-03	ND	1.9005	2.0000	mg/L	1.4	95.0	20	90 - 110
QC Batch ID: BXI0167		Used client sample: N								
Total Phosphate	DUP	1419467-03	0.57675	0.54885		mg/L	5.0		20	
	MS	1419467-03	0.57675	3.7444	3.0660	mg/L		103		80 - 120
	MSD	1419467-03	0.57675	3.4740	3.0660	mg/L	7.5	94.5	20	80 - 120
QC Batch ID: BXI0526		Used client sample: Y - Description: ADO-MW1d, 08/22/2014 09:50								
Dissolved Calcium	DUP	1419538-01	115.62	117.40		mg/L	1.5		20	
	MS	1419538-01	115.62	127.02	10.204	mg/L		112		85 - 115
	MSD	1419538-01	115.62	129.94	10.204	mg/L	2.3	140	20	85 - 115 A03
Dissolved Magnesium	DUP	1419538-01	61.115	62.576		mg/L	2.4		20	
	MS	1419538-01	61.115	73.195	10.204	mg/L		118		85 - 115 A03
	MSD	1419538-01	61.115	72.415	10.204	mg/L	1.1	111	20	85 - 115

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXI0526		Used client sample: Y - Description: ADO-MW1d, 08/22/2014 09:50								
Dissolved Sodium	DUP	1419538-01	41.620	41.699		mg/L	0.2		20	
	MS	1419538-01	41.620	50.083	10.204	mg/L		82.9		A03
	MSD	1419538-01	41.620	51.694	10.204	mg/L	3.2	98.7	20	85 - 115
Dissolved Potassium	DUP	1419538-01	6.8850	6.9883		mg/L	1.5		20	
	MS	1419538-01	6.8850	16.696	10.204	mg/L		96.1		85 - 115
	MSD	1419538-01	6.8850	17.032	10.204	mg/L	2.0	99.4	20	85 - 115
QC Batch ID: BXI0556		Used client sample: Y - Description: ADO-MW1d, 08/22/2014 09:50								
Ammonia as N	DUP	1419538-01	ND	0.034300		mg/L			10	J
	MS	1419538-01	ND	1.1458	1.1111	mg/L		103		90 - 110
	MSD	1419538-01	ND	1.1561	1.1111	mg/L	0.9	104	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/12/2014 8:56
Project: Dairy Rep MP - Expanded Suite
Project Number: Machado Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/15/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Manuel & Alda Lawrence Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419338
Invoice ID: B182575

Enclosed are the results of analyses for samples received by the laboratory on 8/20/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419338

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc. 1419338 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody			
Report to: Expanded Constituent Suite					
Name: Blaine Tech Services Address: 4731 Pell Drive #5 City: Sacramento State: CA Zip: 95838 Attn: David Webb (916) 925-2913 x102		Project: Dairy Representative Monitoring Program Site: Manuel and Alda Lawrence Dairy Samplers Name: <u>V. Landi & T. Ball</u> Global ID:			
From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids		From Filtered Sample: Ammonia-N, NO3-N, NO2-N			
From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qr Fe Unpreserved
- 1	MAL-MW1	08/20/2014	1225	GW	x
- 2	MAL-MW2		1540	GW	x
- 3	MAL-MW3		1230	GW	x
- 4	MAL-MW4		1505	GW	x
- 5	MAL-MW5		1310	GW	x
- 6	MAL-MW6		1700	GW	x
- 7	MAL-MW7		1620	GW	x
- 8	MAL-MW8		1150	GW	x
- 9	Field Duplicate				
10					
11					
12					

Relinquished by: (Signature) 	Received By: [Signature] Date & Time: 08/20/14 2:24
Relinquished by: (Signature) 	Received by: [Signature] Date & Time: 08/20/14 2:25
Relinquished by: (Signature) 	Received By: [Signature] Date & Time:

Comments:

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lufdorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhaliwal@lscce.com
- Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative

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LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 1419338

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____				
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ <small>Intact? Yes <input type="checkbox"/> No <input type="checkbox"/></small>				
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>Pe</u> Thermometer ID: <u>207</u> Temperature: (A) <u>0.5</u> °C / (C) <u>0.7</u> °C		Date/Time: <u>8/20/14 2235</u> Analyst Init: <u>MW</u>

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC		ABC		ABC	ABC			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/20/14 2235 S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 1419338

SHIPPING INFORMATION
Federal Express [] UPS [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER
Ice Chest [x] None [] Box []
Other [] (Specify) _____

FREE LIQUID
YES [] NO []

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [x]
Intact? Yes [] No [] Intact? Yes [] No []

All samples received? Yes [x] No [] All samples containers intact? Yes [x] No [] Description(s) match COC? Yes [x] No []

COC Received
YES [x] NO []

Emissivity: 0.97 Container: Pe Thermometer ID: 207
Temperature: (A) 0.7 °C / (C) 0.9 °C

Date/Time: 8/20/14 2235
Analyst Init: MWI

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments:

Sample Numbering Completed By: M

Date/Time: 8/20/14 2235

(S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419338-01	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 14:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419338-02	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 15:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419338-03	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419338-04	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 15:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419338-05	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 13:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW5	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419338-06	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 17:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419338-07	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 16:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW7	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419338-08	COC Number:	---	Receive Date:	08/20/2014 22:37
	Project Number:	---	Sampling Date:	08/20/2014 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAL-MW8	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-01	Client Sample Name: MAL-MW1, 8/20/2014 2:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	22	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	7.0	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	390	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.62	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	490	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	31	mg/L	2.5	0.34	EPA-300.0	0.98	A01	3
Nitrate as N	27	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	260	mg/L	5.0	0.90	EPA-300.0	1.2	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.30	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.029	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	1.7	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:25	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 13:23	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 05:51	OLH	IC5	5	BXH2236
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	5	BXH2568
5	EPA-351.2	08/28/14	08/29/14 09:31	JP1	SC-1	1	BXH2778
6	EPA-350.1	09/04/14	09/04/14 16:37	JP1	SC-1	1	BXI0328
7	EPA-353.2	08/21/14	08/21/14 09:50	TDC	KONE-1	1	BXH2075
8	EPA-365.4	08/28/14	08/28/14 15:51	JP1	SC-1	1	BXH2779

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Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-02	Client Sample Name: MAL-MW2, 8/20/2014 3:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	44	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	430	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.90	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	990	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	2.5	0.34	EPA-300.0	0.98	A01	3
Nitrate as N	21	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	190	mg/L	5.0	0.90	EPA-300.0	1.2	A01	3
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.40	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.27	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.36	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:37	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 13:42	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 06:08	OLH	IC5	5	BXH2236
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2568
5	EPA-351.2	08/28/14	08/29/14 09:32	JP1	SC-1	1	BXH2778
6	EPA-350.1	09/04/14	09/04/14 16:38	JP1	SC-1	1	BXI0328
7	EPA-353.2	08/21/14	08/21/14 09:50	TDC	KONE-1	1	BXH2075
8	EPA-365.4	08/28/14	08/28/14 15:52	JP1	SC-1	1	BXH2779

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Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-03	Client Sample Name: MAL-MW3, 8/20/2014 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	52	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	830	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	1600	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	400	mg/L	5.0	0.67	EPA-300.0	2.0	A01	3
Nitrate as N	21	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	140	mg/L	10	1.8	EPA-300.0	2.5	A01	3
Total Dissolved Solids @ 180 C	2400	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	2.6	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.99	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.62	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:40	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 13:53	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 04:43	OLH	IC5	10	BXH2236
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	20	BXH2568
5	EPA-351.2	08/28/14	09/04/14 12:08	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/04/14 16:39	JP1	SC-1	1	BXI0328
7	EPA-353.2	08/21/14	08/21/14 09:50	TDC	KONE-1	1	BXH2075
8	EPA-365.4	08/29/14	09/04/14 09:36	JP1	SC-1	1	BXH2840

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Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-04	Client Sample Name: MAL-MW4, 8/20/2014 3:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	43	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	12	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	590	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	1000	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	71	mg/L	0.50	0.067	EPA-300.0	0.20		3
Nitrate as N	20	mg/L	1.0	0.25	EPA-300.0	ND	A01	4
Sulfate	230	mg/L	1.0	0.18	EPA-300.0	0.25		3
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.72	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.15	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	1.1	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:49	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 14:07	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 21:08	OLH	IC5	1	BXH2236
4	EPA-300.0	08/22/14	08/22/14 06:25	LD1	IC5	10	BXH2236
5	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2568
6	EPA-351.2	08/28/14	09/04/14 12:10	JP1	SC-1	1	BXH2839
7	EPA-350.1	09/04/14	09/04/14 21:31	JP1	SC-1	1	BXI0329
8	EPA-353.2	08/21/14	08/21/14 09:50	TDC	KONE-1	1	BXH2075
9	EPA-365.4	08/29/14	09/04/14 09:37	JP1	SC-1	1	BXH2840

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Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-05		Client Sample Name: MAL-MW5, 8/20/2014 1:10:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	45	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	920	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	1600	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	230	mg/L	5.0	0.67	EPA-300.0	2.0	A01	3
Nitrate as N	120	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	230	mg/L	10	1.8	EPA-300.0	2.5	A01	3
Total Dissolved Solids @ 180 C	2900	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	2.0	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.077	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	1.9	mg/L	0.25	0.050	EPA-353.2	ND	A01	7
Total Phosphate	0.86	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:52	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 14:19	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 05:00	OLH	IC5	10	BXH2236
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	20	BXH2568
5	EPA-351.2	08/28/14	09/04/14 12:10	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/04/14 21:35	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:58	TDC	KONE-1	5	BXH2075
8	EPA-365.4	08/29/14	09/04/14 09:37	JP1	SC-1	1	BXH2840

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Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-06		Client Sample Name: MAL-MW6, 8/20/2014 5:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	53	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	370	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	760	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	0.98	A01	3
Nitrate as N	72	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	1.2	A01	3
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.68	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.15	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.91	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:54	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 14:33	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 06:42	OLH	IC5	5	BXH2236
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2568
5	EPA-351.2	08/28/14	09/04/14 12:05	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/04/14 21:36	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:50	TDC	KONE-1	1	BXH2075
8	EPA-365.4	08/29/14	09/04/14 09:34	JP1	SC-1	1	BXH2840

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Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-07		Client Sample Name: MAL-MW7, 8/20/2014 4:20:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	640	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	170	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	410	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	690	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	470	mg/L	5.0	0.67	EPA-300.0	2.0	A01	3
Nitrate as N	120	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	1400	mg/L	10	1.8	EPA-300.0	2.5	A01	3
Total Dissolved Solids @ 180 C	3900	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.2	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.13	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.66	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:57	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 14:44	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 06:59	OLH	IC5	10	BXH2236
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	20	BXH2568
5	EPA-351.2	08/28/14	09/04/14 12:12	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/05/14 07:50	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:50	TDC	KONE-1	1	BXH2075
8	EPA-365.4	08/29/14	09/04/14 09:38	JP1	SC-1	1	BXH2840

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419338-08		Client Sample Name: MAL-MW8, 8/20/2014 11:50:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	3.0	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	0.86	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	470	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	0.55	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate Alkalinity as CaCO3	540	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	51	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	66	mg/L	2.5	0.34	EPA-300.0	0.98	A01	3
Nitrate as N	56	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	120	mg/L	5.0	0.90	EPA-300.0	1.2	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.62	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.056	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.51	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	4.4	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 01:59	JRG	PE-OP1	1	BXH2418
2	SM-2320B	08/25/14	08/25/14 14:55	RLP	MET-1	2	BXH2443
3	EPA-300.0	08/22/14	08/22/14 04:26	OLH	IC5	5	BXH2236
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2568
5	EPA-351.2	08/28/14	09/04/14 12:12	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/05/14 07:52	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:50	TDC	KONE-1	1	BXH2075
8	EPA-365.4	08/29/14	09/04/14 09:38	JP1	SC-1	1	BXH2840

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2075						
Nitrite as N	BXH2075-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2236						
Chloride	BXH2236-BLK1	0.19500	mg/L	0.50	0.067	J
Nitrate as N	BXH2236-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2236-BLK1	0.25000	mg/L	1.0	0.18	J
QC Batch ID: BXH2418						
Dissolved Calcium	BXH2418-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2418-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2418-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2418-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2443						
Bicarbonate Alkalinity as CaCO3	BXH2443-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2443-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2443-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2568						
Total Dissolved Solids @ 180 C	BXH2568-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2778						
Total Kjeldahl Nitrogen	BXH2778-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2779						
Total Phosphate	BXH2779-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2839						
Total Kjeldahl Nitrogen	BXH2839-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2840						
Total Phosphate	BXH2840-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0328						
Ammonia as N	BXI0328-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0329						
Ammonia as N	BXI0329-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2075										
Nitrite as N	BXH2075-BS1	LCS	0.50759	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH2236										
Chloride	BXH2236-BS1	LCS	48.915	50.000	mg/L	97.8		90 - 110		
Nitrate as N	BXH2236-BS1	LCS	4.8360	5.0000	mg/L	96.7		90 - 110		
Sulfate	BXH2236-BS1	LCS	97.224	100.00	mg/L	97.2		90 - 110		
QC Batch ID: BXH2418										
Dissolved Calcium	BXH2418-BS1	LCS	10.082	10.000	mg/L	101		85 - 115		
Dissolved Magnesium	BXH2418-BS1	LCS	10.162	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2418-BS1	LCS	10.048	10.000	mg/L	100		85 - 115		
Dissolved Potassium	BXH2418-BS1	LCS	9.5892	10.000	mg/L	95.9		85 - 115		
QC Batch ID: BXH2568										
Total Dissolved Solids @ 180 C	BXH2568-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH2778										
Total Kjeldahl Nitrogen	BXH2778-BS1	LCS	1.9934	2.0000	mg/L	99.7		90 - 110		
QC Batch ID: BXH2779										
Total Phosphate	BXH2779-BS1	LCS	3.1254	3.0660	mg/L	102		85 - 115		
QC Batch ID: BXH2839										
Total Kjeldahl Nitrogen	BXH2839-BS1	LCS	1.8076	2.0000	mg/L	90.4		90 - 110		
QC Batch ID: BXH2840										
Total Phosphate	BXH2840-BS1	LCS	2.8927	3.0660	mg/L	94.3		85 - 115		
QC Batch ID: BXI0328										
Ammonia as N	BXI0328-BS1	LCS	0.99060	1.0000	mg/L	99.1		90 - 110		
QC Batch ID: BXI0329										
Ammonia as N	BXI0329-BS1	LCS	0.94830	1.0000	mg/L	94.8		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes multiple QC batches (BXH2075, BXH2236, BXH2418, BXH2443, BXH2568, BXH2778) and various chemical tests like Nitrite as N, Chloride, Nitrate as N, Sulfate, Dissolved Calcium, Magnesium, Sodium, Potassium, Alkalinity, and Total Dissolved Solids.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2779		Used client sample: N								
Total Phosphate	DUP	1419335-02	15.347	15.802		mg/L	2.9		20	
	MS	1419335-02	15.347	18.843	3.0660	mg/L		114		80 - 120
	MSD	1419335-02	15.347	18.364	3.0660	mg/L	2.6	98.4	20	80 - 120
QC Batch ID: BXH2839		Used client sample: Y - Description: MAL-MW6, 08/20/2014 17:00								
Total Kjeldahl Nitrogen	DUP	1419338-06	0.67510	0.68270		mg/L	1.1		20	
	MS	1419338-06	0.67510	2.2134	2.0000	mg/L		76.9		90 - 110 Q03
	MSD	1419338-06	0.67510	2.1854	2.0000	mg/L	1.3	75.5	20	90 - 110 Q03
QC Batch ID: BXH2840		Used client sample: Y - Description: MAL-MW6, 08/20/2014 17:00								
Total Phosphate	DUP	1419338-06	0.90514	0.95420		mg/L	5.3		20	
	MS	1419338-06	0.90514	3.9943	3.0660	mg/L		101		80 - 120
	MSD	1419338-06	0.90514	3.8137	3.0660	mg/L	4.6	94.9	20	80 - 120
QC Batch ID: BXI0328		Used client sample: N								
Ammonia as N	DUP	1419294-01	0.37590	0.36280		mg/L	3.5		10	
	MS	1419294-01	0.37590	1.7667	1.1111	mg/L		125		90 - 110 Q03
	MSD	1419294-01	0.37590	1.6490	1.1111	mg/L	6.9	115	10	90 - 110 Q03
QC Batch ID: BXI0329		Used client sample: Y - Description: MAL-MW4, 08/20/2014 15:05								
Ammonia as N	DUP	1419338-04	ND	ND		mg/L			10	
	MS	1419338-04	ND	1.0883	1.1111	mg/L		97.9		90 - 110
	MSD	1419338-04	ND	1.0979	1.1111	mg/L	0.9	98.8	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/15/2014 15:46
Project: Dairy Rep MP - Expanded Suite
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/05/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Maple Avenue Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419054
Invoice ID: B182466

Enclosed are the results of analyses for samples received by the laboratory on 8/18/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419054

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19054

BC Laboratories, Inc.

4100 Atlas Ct
Bakersfield, CA 93308
(661) 327-4911

Chain of Custody

Report to:

Expanded Constituent Suite
Project: Dairy Representative Monitoring Program
Site: Maple Avenue Dairy
Samplers Name: V. Landi & T. Bell
Global ID -

Analysis Requested

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved	From Filtered Sample:			From Unfiltered Sample:		
						Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
1	MAP-MW8				X	X	X	X	X	X	
2	MAP-MW9				X	X	X	X	X	X	
3	MAP-MW10	08/18/14	1645	GW	X	X	X	X	X	X	
4	Field Duplicate				X	X	X	X	X	X	
5					X	X	X	X	X	X	
6					X	X	X	X	X	X	
7					X	X	X	X	X	X	
8					X	X	X	X	X	X	
9					X	X	X	X	X	X	
10					X	X	X	X	X	X	

CHK BY: [Signature]

Relinquished by: (Signature) [Signature]

Relinquished by: (Signature) [Signature]

Relinquished by: (Signature) [Signature]

Received By: [Signature] Date & Time: 08/19/14 2045

Received By: [Signature] Date & Time: 8-18-14 0500

Received By: [Signature] Date & Time: [Signature]

Received By: [Signature] Date & Time: [Signature]

Received By: [Signature] Date & Time: [Signature]

Comments:

- 1) Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lufdorff and Scalmani Consulting Engineers via email: llavegnino@lscce.com, rbyson@lscce.com, pdhallival@lscce.com
- 4) Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-19054

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/18/14
 Temperature: (A) 0.7 °C / (C) 0.9 °C Analyst Init MW 2320

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	ABC									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE.										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/18/14 @ 2355 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419054-01	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 16:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAP-MW10	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis:	2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419054-01		Client Sample Name: MAP-MW10, 8/18/2014 4:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	0.021		1
Dissolved Magnesium	13	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	0.051		1
Dissolved Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	0.12		2
Bicarbonate Alkalinity as CaCO3	460	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	39	mg/L	1.0	0.13	EPA-300.0	0.27	A01	4
Nitrate as N	60	mg/L	0.50	0.12	EPA-300.0	ND	A01	5
Sulfate	73	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	900	mg/L	50	50	SM-2540C	ND		6
Total Kjeldahl Nitrogen	0.55	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		8
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	0.15	mg/L	0.15	0.092	EPA-365.4	ND		10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:40	JRG	PE-OP1	1	BXH2413
2	EPA-200.7	08/21/14	08/28/14 19:21	JRG	PE-OP1	1	BXH2413
3	SM-2320B	08/21/14	08/21/14 20:06	RML	MET-1	2	BXH2006
4	EPA-300.0	08/19/14	08/20/14 05:17	OLH	IC5	2	BXH1857
5	EPA-300.0	08/19/14	08/20/14 16:22	OLH	IC5	5	BXH1857
6	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	5	BXH2190
7	EPA-351.2	08/26/14	08/27/14 11:28	JP1	SC-1	1	BXH2309
8	EPA-350.1	08/21/14	08/21/14 17:25	JP1	SC-1	1	BXH2078
9	EPA-353.2	08/19/14	08/19/14 09:36	TDC	KONE-1	1	BXH1730
10	EPA-365.4	08/26/14	08/27/14 08:56	JP1	SC-1	1	BXH2310

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1730						
Nitrite as N	BXH1730-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1857						
Chloride	BXH1857-BLK1	0.13700	mg/L	0.50	0.067	J
Nitrate as N	BXH1857-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1857-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2006						
Bicarbonate Alkalinity as CaCO3	BXH2006-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2006-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2006-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2078						
Ammonia as N	BXH2078-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH2190						
Total Dissolved Solids @ 180 C	BXH2190-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2309						
Total Kjeldahl Nitrogen	BXH2309-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2310						
Total Phosphate	BXH2310-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2413						
Dissolved Calcium	BXH2413-BLK1	0.020881	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH2413-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2413-BLK1	0.051083	mg/L	0.50	0.051	J
Dissolved Potassium	BXH2413-BLK2	0.12196	mg/L	1.0	0.10	J

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1730										
Nitrite as N	BXH1730-BS1	LCS	0.49033	0.50000	mg/L	98.1		90 - 110		
QC Batch ID: BXH1857										
Chloride	BXH1857-BS1	LCS	52.651	50.000	mg/L	105		90 - 110		
Nitrate as N	BXH1857-BS1	LCS	5.2610	5.0000	mg/L	105		90 - 110		
Sulfate	BXH1857-BS1	LCS	104.89	100.00	mg/L	105		90 - 110		
QC Batch ID: BXH2078										
Ammonia as N	BXH2078-BS1	LCS	0.92200	1.0000	mg/L	92.2		90 - 110		
QC Batch ID: BXH2190										
Total Dissolved Solids @ 180 C	BXH2190-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH2309										
Total Kjeldahl Nitrogen	BXH2309-BS1	LCS	1.8993	2.0000	mg/L	95.0		90 - 110		
QC Batch ID: BXH2310										
Total Phosphate	BXH2310-BS1	LCS	3.1542	3.0660	mg/L	103		85 - 115		
QC Batch ID: BXH2413										
Dissolved Calcium	BXH2413-BS1	LCS	9.8655	10.000	mg/L	98.7		85 - 115		
Dissolved Magnesium	BXH2413-BS1	LCS	10.229	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2413-BS1	LCS	9.5931	10.000	mg/L	95.9		85 - 115		
Dissolved Potassium	BXH2413-BS2	LCS	9.7143	10.000	mg/L	97.1		85 - 115		

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Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes multiple QC Batch sections (BXH1730, BXH1857, BXH2006, BXH2078, BXH2190, BXH2309, BXH2310, BXH2413) with detailed data for various analytes like Nitrite as N, Chloride, Nitrate as N, Sulfate, Bicarbonate Alkalinity, Ammonia as N, Total Dissolved Solids, Total Kjeldahl Nitrogen, Total Phosphate, and Dissolved Calcium.

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Blaine Tech
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Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: BXH2413		Used client sample: N									
Dissolved Magnesium	DUP	1419051-01	101.33	99.826		mg/L	1.5		20		
	MS	1419051-01	101.33	123.61	10.204	mg/L		218		85 - 115	A03
	MSD	1419051-01	101.33	109.07	10.204	mg/L	12.5	75.8	20	85 - 115	A03
Dissolved Sodium	DUP	1419051-01	137.09	138.78		mg/L	1.2		20		
	MS	1419051-01	137.09	164.63	10.204	mg/L		270		85 - 115	A03
	MSD	1419051-01	137.09	141.54	10.204	mg/L	15.1	43.6	20	85 - 115	A03
Dissolved Potassium	DUP	1419051-01	2.6681	2.6432		mg/L	0.9		20		
	MS	1419051-01	2.6681	13.735	10.204	mg/L		108		85 - 115	
	MSD	1419051-01	2.6681	13.501	10.204	mg/L	1.7	106	20	85 - 115	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/05/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Zonneveld Dairy Complex
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419053
Invoice ID: B182465

Enclosed are the results of analyses for samples received by the laboratory on 8/18/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419053

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19053

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite
Project: Dairy Representative Monitoring Program
Site: Zonneveld Dairy Complex
Samplers Name: V. Landi & T. Bell
Global ID -

Analysis Requested

From Unfiltered Sample:
Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

From Filtered Sample:
Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Filtered Sample:
Ammonia-N, NO3-N,
NO2-N

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Cl	Pb	Unpreserved	Analysis Requested			
								From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
1	ZON-MW1A, ZON-MW1B ✓	08/18/14	1305	GW	x		x	x	x	x	
2	ZON-MW2A, ZON-MW2B ✓		1420	GW	x		x	x	x	x	
3	ZON-MW3A, ZON-MW3B ✓		1505	GW	x		x	x	x	x	
4	ZON-MW4A, ZON-MW4B ✓		1340	GW	x		x	x	x	x	
5	ZON-MW5A, ZON-MW5B ✓		1545	GW	x		x	x	x	x	
6	ZON-MW7										
7	Field Duplicate #3-6	08/18/14		GW	x		x	x	x	x	
8											
9											
10											

Comments:

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Luthorff and Scalmanini Consulting Engineers via email: llavagnino@isce.com, rlbyson@isce.com, pdhalliwal@isce.com
- 4) Send bill to Blaine Tech Services, only.

Relinquished by: (Signature)

Received By: (Signature)

Date & Time

(A)= Analysis (C)= Container (P)= Preservative



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-19053

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/18/14
 Temperature: (A) 0.7 °C / (C) 0.9 °C Analyst Init: MW 2320

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC	ABC	ABC	ABC				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

STAMP: SPLITTING TIME
 CIP (NO) (NC) (OP) (SS)
 DO CLR BOD MBAS COC
 STAMP: CHK BY DISTRIBUTION
 MW
 SUB-OUT

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/18/14 @ 2355 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419053-01	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 13:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW1A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419053-02	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 14:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW2B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419053-03	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 15:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW3B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419053-04	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 13:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW4B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419053-05	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 15:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW5A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419053-06	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis:	2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419053-01	Client Sample Name: ZON-MW1A, 8/18/2014 1:05:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	30	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	6.2	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	33	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	250	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	44	mg/L	0.50	0.067	EPA-300.0	0.14		4
Nitrate as N	51	mg/L	0.50	0.12	EPA-300.0	ND	A01	5
Sulfate	45	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	770	mg/L	33	33	SM-2540C	ND		6
Total Kjeldahl Nitrogen	1.0	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		8
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	13	mg/L	0.75	0.46	EPA-365.4	ND	A01	10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 20:25	JRG	PE-OP1	1	BXH2414
2	EPA-200.7	08/21/14	08/28/14 02:55	JRG	PE-OP1	1	BXH2414
3	SM-2320B	08/21/14	08/21/14 18:52	RML	MET-1	2	BXH2005
4	EPA-300.0	08/19/14	08/19/14 22:56	OLH	IC5	1	BXH1858
5	EPA-300.0	08/19/14	08/20/14 05:33	OLH	IC5	5	BXH1858
6	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	3.333	BXH2244
7	EPA-351.2	08/26/14	08/27/14 11:21	JP1	SC-1	1	BXH2309
8	EPA-350.1	08/27/14	08/28/14 08:32	JP1	SC-1	1	BXH2600
9	EPA-353.2	08/19/14	08/19/14 09:35	TDC	KONE-1	1	BXH1731
10	EPA-365.4	08/26/14	08/27/14 09:08	JP1	SC-1	5	BXH2310

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419053-02		Client Sample Name: ZON-MW2B, 8/18/2014 2:20:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	11	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	0.17	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	46	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	0.49	mg/L	1.0	0.10	EPA-200.7	ND	J	2
Bicarbonate Alkalinity as CaCO3	44	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	13	mg/L	0.50	0.067	EPA-300.0	0.14		4
Nitrate as N	15	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	15	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	210	mg/L	10	10	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.14	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	1.5	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 20:37	JRG	PE-OP1	1	BXH2414
2	EPA-200.7	08/21/14	08/28/14 03:08	JRG	PE-OP1	1	BXH2414
3	SM-2320B	08/21/14	08/21/14 19:35	RML	MET-1	1	BXH2006
4	EPA-300.0	08/19/14	08/19/14 23:12	OLH	IC5	1	BXH1858
5	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	1	BXH2244
6	EPA-351.2	08/26/14	08/27/14 11:21	JP1	SC-1	1	BXH2309
7	EPA-350.1	08/27/14	08/28/14 08:34	JP1	SC-1	1	BXH2600
8	EPA-353.2	08/19/14	08/19/14 09:35	TDC	KONE-1	1	BXH1731
9	EPA-365.4	08/26/14	08/27/14 08:51	JP1	SC-1	1	BXH2310

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419053-03	Client Sample Name: ZON-MW3B, 8/18/2014 3:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	4.9	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	94	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	1.0	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	340	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	34	mg/L	1.0	0.13	EPA-300.0	0.29	A01	4
Nitrate as N	66	mg/L	0.50	0.12	EPA-300.0	ND	A01	5
Sulfate	35	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	720	mg/L	50	50	SM-2540C	ND		6
Total Kjeldahl Nitrogen	0.94	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		8
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	1.7	mg/L	0.15	0.092	EPA-365.4	ND		10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 20:39	JRG	PE-OP1	1	BXH2414
2	EPA-200.7	08/21/14	08/28/14 03:10	JRG	PE-OP1	1	BXH2414
3	SM-2320B	08/21/14	08/21/14 19:41	RML	MET-1	2	BXH2006
4	EPA-300.0	08/19/14	08/19/14 23:28	OLH	IC5	2	BXH1858
5	EPA-300.0	08/19/14	08/20/14 05:49	OLH	IC5	5	BXH1858
6	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	5	BXH2244
7	EPA-351.2	08/26/14	08/27/14 11:23	JP1	SC-1	1	BXH2309
8	EPA-350.1	08/27/14	08/28/14 08:34	JP1	SC-1	1	BXH2600
9	EPA-353.2	08/19/14	08/19/14 09:35	TDC	KONE-1	1	BXH1731
10	EPA-365.4	08/26/14	08/27/14 08:52	JP1	SC-1	1	BXH2310

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Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419053-04		Client Sample Name: ZON-MW4B, 8/18/2014 1:40:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	2.4	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	270	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	36	mg/L	1.0	0.13	EPA-300.0	0.29	A01	4
Nitrate as N	64	mg/L	0.50	0.12	EPA-300.0	ND	A01	5
Sulfate	32	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	660	mg/L	50	50	SM-2540C	ND		6
Total Kjeldahl Nitrogen	0.92	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		8
Nitrite as N	0.020	mg/L	0.050	0.010	EPA-353.2	ND	J	9
Total Phosphate	1.1	mg/L	0.15	0.092	EPA-365.4	ND		10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 20:49	JRG	PE-OP1	1	BXH2414
2	EPA-200.7	08/21/14	08/28/14 03:20	JRG	PE-OP1	1	BXH2414
3	SM-2320B	08/21/14	08/21/14 19:47	RML	MET-1	2	BXH2006
4	EPA-300.0	08/19/14	08/19/14 23:44	OLH	IC5	2	BXH1858
5	EPA-300.0	08/19/14	08/20/14 06:05	OLH	IC5	5	BXH1858
6	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	5	BXH2244
7	EPA-351.2	08/26/14	08/27/14 11:25	JP1	SC-1	1	BXH2309
8	EPA-350.1	08/27/14	08/28/14 08:36	JP1	SC-1	1	BXH2600
9	EPA-353.2	08/19/14	08/19/14 09:35	TDC	KONE-1	1	BXH1731
10	EPA-365.4	08/26/14	08/27/14 08:54	JP1	SC-1	1	BXH2310

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Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419053-05		Client Sample Name: ZON-MW5A, 8/18/2014 3:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	89	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	5.7	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	79	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	1.1	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	240	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	16	mg/L	0.50	0.067	EPA-300.0	0.14		4
Nitrate as N	33	mg/L	0.20	0.050	EPA-300.0	ND	A01	5
Sulfate	37	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	620	mg/L	33	33	SM-2540C	ND		6
Total Kjeldahl Nitrogen	0.63	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		8
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	2.2	mg/L	0.15	0.092	EPA-365.4	ND		10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 20:52	JRG	PE-OP1	1	BXH2414
2	EPA-200.7	08/21/14	08/28/14 03:22	JRG	PE-OP1	1	BXH2414
3	SM-2320B	08/21/14	08/21/14 19:54	RML	MET-1	1	BXH2006
4	EPA-300.0	08/19/14	08/20/14 00:00	OLH	IC5	1	BXH1858
5	EPA-300.0	08/19/14	08/20/14 06:21	OLH	IC5	2	BXH1858
6	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	3.333	BXH2244
7	EPA-351.2	08/26/14	08/27/14 11:26	JP1	SC-1	1	BXH2309
8	EPA-350.1	08/27/14	08/28/14 08:36	JP1	SC-1	1	BXH2600
9	EPA-353.2	08/19/14	08/19/14 09:35	TDC	KONE-1	1	BXH1731
10	EPA-365.4	08/26/14	08/27/14 08:55	JP1	SC-1	1	BXH2310

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Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419053-06	Client Sample Name: Field Duplicate #3, 8/18/2014 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	30	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	6.1	mg/L	0.050	0.019	EPA-200.7	ND		2
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	33	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate Alkalinity as CaCO3	250	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	40	mg/L	1.0	0.13	EPA-300.0	0.29	A01	4
Nitrate as N	52	mg/L	0.50	0.12	EPA-300.0	ND	A01	5
Sulfate	42	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	770	mg/L	33	33	SM-2540C	ND		6
Total Kjeldahl Nitrogen	1.1	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	8
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	13	mg/L	0.75	0.46	EPA-365.4	ND	A01	10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 20:54	JRG	PE-OP1	1	BXH2414
2	EPA-200.7	08/21/14	08/28/14 03:25	JRG	PE-OP1	1	BXH2414
3	SM-2320B	08/21/14	08/21/14 20:00	RML	MET-1	2	BXH2006
4	EPA-300.0	08/19/14	08/20/14 00:15	OLH	IC5	2	BXH1858
5	EPA-300.0	08/19/14	08/20/14 06:37	OLH	IC5	5	BXH1858
6	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	3.333	BXH2244
7	EPA-351.2	08/26/14	08/27/14 11:27	JP1	SC-1	1	BXH2309
8	EPA-350.1	09/02/14	09/03/14 09:15	JP1	SC-1	1	BXI0065
9	EPA-353.2	08/19/14	08/19/14 09:36	TDC	KONE-1	1	BXH1731
10	EPA-365.4	08/26/14	08/27/14 09:09	JP1	SC-1	5	BXH2310

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Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1731						
Nitrite as N	BXH1731-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1858						
Chloride	BXH1858-BLK1	0.14400	mg/L	0.50	0.067	J
Nitrate as N	BXH1858-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1858-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2005						
Bicarbonate Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2006						
Bicarbonate Alkalinity as CaCO3	BXH2006-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2006-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2006-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2244						
Total Dissolved Solids @ 180 C	BXH2244-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2309						
Total Kjeldahl Nitrogen	BXH2309-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2310						
Total Phosphate	BXH2310-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2414						
Dissolved Calcium	BXH2414-BLK2	0.022471	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH2414-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2414-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2414-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2600						
Ammonia as N	BXH2600-BLK1	0.039200	mg/L	0.10	0.033	J
QC Batch ID: BXI0065						
Ammonia as N	BXI0065-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1731										
Nitrite as N	BXH1731-BS1	LCS	0.48953	0.50000	mg/L	97.9		90 - 110		
QC Batch ID: BXH1858										
Chloride	BXH1858-BS1	LCS	52.370	50.000	mg/L	105		90 - 110		
Nitrate as N	BXH1858-BS1	LCS	5.2360	5.0000	mg/L	105		90 - 110		
Sulfate	BXH1858-BS1	LCS	104.36	100.00	mg/L	104		90 - 110		
QC Batch ID: BXH2244										
Total Dissolved Solids @ 180 C	BXH2244-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110		
QC Batch ID: BXH2309										
Total Kjeldahl Nitrogen	BXH2309-BS1	LCS	1.8993	2.0000	mg/L	95.0		90 - 110		
QC Batch ID: BXH2310										
Total Phosphate	BXH2310-BS1	LCS	3.1542	3.0660	mg/L	103		85 - 115		
QC Batch ID: BXH2414										
Dissolved Calcium	BXH2414-BS2	LCS	9.7566	10.000	mg/L	97.6		85 - 115		
Dissolved Magnesium	BXH2414-BS1	LCS	10.169	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2414-BS1	LCS	9.5942	10.000	mg/L	95.9		85 - 115		
Dissolved Potassium	BXH2414-BS1	LCS	9.0482	10.000	mg/L	90.5		85 - 115		
QC Batch ID: BXH2600										
Ammonia as N	BXH2600-BS1	LCS	1.0084	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXI0065										
Ammonia as N	BXI0065-BS1	LCS	0.94560	1.0000	mg/L	94.6		90 - 110		

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Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH1731		Used client sample: Y - Description: ZON-MW1A, 08/18/2014 13:05								
Nitrite as N	DUP	1419053-01	ND	ND		mg/L			10	
	MS	1419053-01	ND	0.51809	0.52632	mg/L		98.4		90 - 110
	MSD	1419053-01	ND	0.51711	0.52632	mg/L	0.2	98.3	10	90 - 110
QC Batch ID: BXH1858		Used client sample: N								
Chloride	DUP	419211-05RE	6.4440	6.4470		mg/L	0.0		10	
	MS	419211-05RE	6.4440	59.410	50.505	mg/L		105		80 - 120
	MSD	419211-05RE	6.4440	59.488	50.505	mg/L	0.1	105	10	80 - 120
Nitrate as N	DUP	419211-05RE	3.9190	3.9120		mg/L	0.2		10	
	MS	419211-05RE	3.9190	9.1192	5.0505	mg/L		103		80 - 120
	MSD	419211-05RE	3.9190	9.1192	5.0505	mg/L	0	103	10	80 - 120
Sulfate	DUP	419211-05RE	25.394	25.374		mg/L	0.1		10	
	MS	419211-05RE	25.394	132.06	101.01	mg/L		106		80 - 120
	MSD	419211-05RE	25.394	132.33	101.01	mg/L	0.2	106	10	80 - 120
QC Batch ID: BXH2005		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419051-04	2081.5	2088.8		mg/L	0.4		10	
Carbonate Alkalinity as CaCO3	DUP	1419051-04	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419051-04	ND	ND		mg/L			10	
QC Batch ID: BXH2006		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1418980-01	233.83	237.94		mg/L	1.7		10	
Carbonate Alkalinity as CaCO3	DUP	1418980-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418980-01	ND	ND		mg/L			10	
QC Batch ID: BXH2244		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1419052-01	740.00	750.00		mg/L	1.3		10	
QC Batch ID: BXH2309		Used client sample: N								
Total Kjeldahl Nitrogen	DUP	1419052-03	0.19770	0.15440		mg/L	24.6		20	J,A02
	MS	1419052-03	0.19770	1.8678	2.0000	mg/L		83.5		90 - 110 Q03
	MSD	1419052-03	0.19770	1.7506	2.0000	mg/L	6.5	77.6	20	90 - 110 Q03
QC Batch ID: BXH2310		Used client sample: N								
Total Phosphate	DUP	1419052-03	0.26952	0.23119		mg/L	15.3		20	
	MS	1419052-03	0.26952	3.3621	3.0660	mg/L		101		80 - 120
	MSD	1419052-03	0.26952	3.3446	3.0660	mg/L	0.5	100	20	80 - 120
QC Batch ID: BXH2414		Used client sample: Y - Description: ZON-MW1A, 08/18/2014 13:05								
Dissolved Calcium	DUP	1419053-01	30.322	30.372		mg/L	0.2		20	
	MS	1419053-01	30.322	39.929	10.204	mg/L		94.2		85 - 115
	MSD	1419053-01	30.322	39.017	10.204	mg/L	2.3	85.2	20	85 - 115

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Blaine Tech
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Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2414		Used client sample: Y - Description: ZON-MW1A, 08/18/2014 13:05								
Dissolved Magnesium	DUP	1419053-01	6.1937	6.0977		mg/L	1.6		20	
	MS	1419053-01	6.1937	16.410	10.204	mg/L		100		85 - 115
	MSD	1419053-01	6.1937	16.303	10.204	mg/L	0.6	99.1	20	85 - 115
Dissolved Sodium	DUP	1419053-01	184.29	187.63		mg/L	1.8		20	
	MS	1419053-01	184.29	193.62	10.204	mg/L		91.5		85 - 115
	MSD	1419053-01	184.29	187.08	10.204	mg/L	3.4	27.4	20	85 - 115 A03
Dissolved Potassium	DUP	1419053-01	33.306	34.058		mg/L	2.2		20	
	MS	1419053-01	33.306	42.783	10.204	mg/L		92.9		85 - 115
	MSD	1419053-01	33.306	42.220	10.204	mg/L	1.3	87.4	20	85 - 115
QC Batch ID: BXH2600		Used client sample: N								
Ammonia as N	DUP	1419052-01	ND	ND		mg/L			10	
	MS	1419052-01	ND	1.2066	1.1111	mg/L		109		90 - 110
	MSD	1419052-01	ND	1.1878	1.1111	mg/L	1.6	107	10	90 - 110
QC Batch ID: BXI0065		Used client sample: Y - Description: Field Duplicate #3, 08/18/2014 00:00								
Ammonia as N	DUP	1419053-06	ND	ND		mg/L			10	
	MS	1419053-06	ND	1.1323	1.1111	mg/L		102		90 - 110
	MSD	1419053-06	ND	1.1427	1.1111	mg/L	0.9	103	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/05/2014 17:28
Project: Dairy Rep MP - Expanded Suite
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/02/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Richmar Farms Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418537
Invoice ID: B182093

Enclosed are the results of analyses for samples received by the laboratory on 8/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1418537

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		Chain of Custody						
14-18537		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911						
Report to:								
Expanded Constituent Suite								
Project: Dairy Representative Monitoring Program								
Site: Richmar Farms Dairy								
Samplers Name: V. Landi								
Global ID -								
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1, P6 Unpreserved	From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
1	RIC-MW1, RIC-MW2 (VL)	08/12/14	1400	GW	x	x	x	x
2	RIC-MW3, RIC-MW4		1310	GW	x	x	x	x
3	RIC-MW5, RIC-MW6		1230	GW	x	x	x	x
4	RIC-MW7s, RIC-MW7d (VL)		1440	GW	x	x	x	x
5	RIC-MW8s, RIC-MW8d (VL)		1505	GW	x	x	x	x
6	RIC-MW9s, RIC-MW9d (VL)		1535	GW	x	x	x	x
7	Field Duplicate				x	x	x	x
8								
9								
10								
11								
12								
13								

STORT HOLDING TIME	CHK BY	DISTRIBUTION
Cr ⁶⁺ (NO ₂) (NO ₃) OP SS	MM	MM
DO Cl ₂ BOD MBAS COT		SUB-OUT

Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)
Wanda Landi	Wanda Landi	Wanda Landi
Date & Time	Date & Time	Date & Time
08/12/14 2130	08/12/14 2130	08/12/14 2050

Comments:

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lundorff and Scalmanini Consulting Engineers via email: llavagnino@sce.com, rbryson@sce.com, pdhaliwal@sce.com
- Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-18537

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
---	--	---

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/12/14 2250
 Temperature: (A) 0.2 °C (C) 0.4 °C Analyst Init: MM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC	ABC	ABC	ABC				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: MM Date/Time: 8/12/14 2250 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1418537-01	COC Number:	---	Receive Date:	08/12/2014 22:50
	Project Number:	---	Sampling Date:	08/12/2014 14:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418537-02	COC Number:	---	Receive Date:	08/12/2014 22:50
	Project Number:	---	Sampling Date:	08/12/2014 13:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418537-03	COC Number:	---	Receive Date:	08/12/2014 22:50
	Project Number:	---	Sampling Date:	08/12/2014 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418537-04	COC Number:	---	Receive Date:	08/12/2014 22:50
	Project Number:	---	Sampling Date:	08/12/2014 14:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1418537-05	COC Number:	---	Receive Date:	08/12/2014 22:50
	Project Number:	---	Sampling Date:	08/12/2014 15:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW8s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1418537-06	COC Number: ---	Receive Date: 08/12/2014 22:50
	Project Number: ---	Sampling Date: 08/12/2014 15:35
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: RIC-MW9s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418537-01		Client Sample Name: RIC-MW1, 8/12/2014 2:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	91	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	15	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	280	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	440	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	ND	mg/L	0.20	0.050	EPA-300.0	ND	A10	4
Sulfate	260	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	910	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.34	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.19	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.90	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 21:22	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/13/14	08/13/14 20:41	RML	MET-1	2	BXH1113
3	EPA-300.0	08/13/14	08/14/14 22:34	OLH	IC5	1	BXH1237
4	EPA-300.0	08/13/14	08/13/14 20:10	LD1	IC5	2	BXH1237
5	SM-2540C	08/18/14	08/18/14 12:30	CAD	MANUAL	5	BXH1575
6	EPA-351.2	08/20/14	08/20/14 16:19	JP1	SC-1	1	BXH1805
7	EPA-350.1	08/13/14	08/13/14 15:00	JP1	SC-1	1	BXH1142
8	EPA-353.2	08/13/14	08/13/14 12:39	TDC	KONE-1	1	BXH1287
9	EPA-365.4	08/20/14	08/20/14 13:33	JP1	SC-1	1	BXH1807

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418537-02	Client Sample Name: RIC-MW4, 8/12/2014 1:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	29	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	140	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	7.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	470	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	4.5	mg/L	0.20	0.050	EPA-300.0	ND	A01	4
Sulfate	140	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	600	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	2.1	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.17	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.055	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	4.0	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 21:24	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/13/14	08/13/14 20:48	RML	MET-1	2	BXH1113
3	EPA-300.0	08/13/14	08/14/14 23:37	OLH	IC5	1	BXH1237
4	EPA-300.0	08/13/14	08/13/14 20:28	LD1	IC5	2	BXH1237
5	SM-2540C	08/18/14	08/18/14 12:30	CAD	MANUAL	3.333	BXH1575
6	EPA-351.2	08/20/14	08/20/14 16:22	JP1	SC-1	1	BXH1805
7	EPA-350.1	08/13/14	08/13/14 15:00	JP1	SC-1	1	BXH1142
8	EPA-353.2	08/13/14	08/13/14 12:39	TDC	KONE-1	1	BXH1287
9	EPA-365.4	08/20/14	08/20/14 13:35	JP1	SC-1	1	BXH1807

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418537-03	Client Sample Name: RIC-MW6, 8/12/2014 12:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	66	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	9.0	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	48	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	13	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	41	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	56	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	410	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.62	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.35	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.1	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 21:27	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/13/14	08/13/14 20:55	RML	MET-1	1	BXH1113
3	EPA-300.0	08/13/14	08/13/14 20:45	LD1	IC5	1	BXH1237
4	SM-2540C	08/18/14	08/18/14 12:30	CAD	MANUAL	2	BXH1575
5	EPA-351.2	08/20/14	08/20/14 16:24	JP1	SC-1	1	BXH1805
6	EPA-350.1	08/13/14	08/13/14 14:55	JP1	SC-1	1	BXH1142
7	EPA-353.2	08/13/14	08/13/14 12:39	TDC	KONE-1	1	BXH1287
8	EPA-365.4	08/20/14	08/20/14 13:36	JP1	SC-1	1	BXH1807

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418537-04	Client Sample Name: RIC-MW7s, 8/12/2014 2:40:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	72	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	13	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	260	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	390	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	87	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	ND	mg/L	0.20	0.050	EPA-300.0	ND	A10	4
Sulfate	260	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	860	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.32	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.13	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	1.1	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 21:29	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/13/14	08/13/14 21:01	RML	MET-1	2	BXH1113
3	EPA-300.0	08/13/14	08/14/14 23:53	OLH	IC5	1	BXH1237
4	EPA-300.0	08/13/14	08/13/14 21:37	LD1	IC5	2	BXH1237
5	SM-2540C	08/18/14	08/18/14 12:30	CAD	MANUAL	5	BXH1575
6	EPA-351.2	08/20/14	08/20/14 16:24	JP1	SC-1	1	BXH1805
7	EPA-350.1	08/13/14	08/13/14 15:02	JP1	SC-1	1	BXH1142
8	EPA-353.2	08/13/14	08/13/14 12:39	TDC	KONE-1	1	BXH1287
9	EPA-365.4	08/20/14	08/20/14 13:37	JP1	SC-1	1	BXH1807

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418537-05		Client Sample Name: RIC-MW8s, 8/12/2014 3:05:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	8.4	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	2.3	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	4.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	36	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	49	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	100	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	490	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.34	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.11	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.60	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 21:32	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/13/14	08/13/14 21:24	RML	MET-1	1	BXH1194
3	EPA-300.0	08/13/14	08/13/14 21:55	LD1	IC5	1	BXH1237
4	SM-2540C	08/18/14	08/18/14 12:30	CAD	MANUAL	3.333	BXH1575
5	EPA-351.2	08/20/14	08/20/14 16:25	JP1	SC-1	1	BXH1805
6	EPA-350.1	08/13/14	08/13/14 15:02	JP1	SC-1	1	BXH1142
7	EPA-353.2	08/13/14	08/13/14 12:39	TDC	KONE-1	1	BXH1287
8	EPA-365.4	08/20/14	08/20/14 13:38	JP1	SC-1	1	BXH1807

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418537-06		Client Sample Name: RIC-MW9s, 8/12/2014 3:35:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	90	mg/L	0.10	0.016	EPA-200.7	0.052		1
Dissolved Magnesium	50	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	0.052		1
Dissolved Potassium	1.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	360	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	67	mg/L	1.0	0.13	EPA-300.0	0.35	A01	3
Nitrate as N	31	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	56	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	530	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.22	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.048	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.49	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/25/14 21:36	JRG	PE-OP1	1	BXH1771
2	SM-2320B	08/13/14	08/13/14 21:36	RML	MET-1	2	BXH1194
3	EPA-300.0	08/13/14	08/13/14 22:12	LD1	IC5	2	BXH1237
4	SM-2540C	08/18/14	08/18/14 12:30	CAD	MANUAL	3.333	BXH1575
5	EPA-351.2	08/20/14	08/20/14 16:28	JP1	SC-1	1	BXH1805
6	EPA-350.1	08/13/14	08/13/14 15:04	JP1	SC-1	1	BXH1142
7	EPA-353.2	08/13/14	08/13/14 12:39	TDC	KONE-1	1	BXH1287
8	EPA-365.4	08/20/14	08/20/14 13:39	JP1	SC-1	1	BXH1807

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1113						
Bicarbonate Alkalinity as CaCO3	BXH1113-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1113-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1113-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1142						
Ammonia as N	BXH1142-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH1194						
Bicarbonate Alkalinity as CaCO3	BXH1194-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1194-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1194-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH1237						
Chloride	BXH1237-BLK1	0.17700	mg/L	0.50	0.067	J
Nitrate as N	BXH1237-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1237-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1287						
Nitrite as N	BXH1287-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1575						
Total Dissolved Solids @ 180 C	BXH1575-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1771						
Dissolved Calcium	BXH1771-BLK1	0.051794	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH1771-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH1771-BLK1	0.051605	mg/L	0.50	0.051	J
Dissolved Potassium	BXH1771-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH1805						
Total Kjeldahl Nitrogen	BXH1805-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH1807						
Total Phosphate	BXH1807-BLK1	ND	mg/L	0.15	0.092	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1142										
Ammonia as N	BXH1142-BS1	LCS	1.0076	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1237										
Chloride	BXH1237-BS1	LCS	51.065	50.000	mg/L	102		90 - 110		
Nitrate as N	BXH1237-BS1	LCS	5.0010	5.0000	mg/L	100		90 - 110		
Sulfate	BXH1237-BS1	LCS	101.27	100.00	mg/L	101		90 - 110		
QC Batch ID: BXH1287										
Nitrite as N	BXH1287-BS1	LCS	0.52392	0.50000	mg/L	105		90 - 110		
QC Batch ID: BXH1575										
Total Dissolved Solids @ 180 C	BXH1575-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH1771										
Dissolved Calcium	BXH1771-BS1	LCS	9.3675	10.000	mg/L	93.7		85 - 115		
Dissolved Magnesium	BXH1771-BS1	LCS	10.176	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH1771-BS1	LCS	11.089	10.000	mg/L	111		85 - 115		
Dissolved Potassium	BXH1771-BS1	LCS	10.165	10.000	mg/L	102		85 - 115		
QC Batch ID: BXH1805										
Total Kjeldahl Nitrogen	BXH1805-BS1	LCS	1.9835	2.0000	mg/L	99.2		90 - 110		
QC Batch ID: BXH1807										
Total Phosphate	BXH1807-BS1	LCS	3.1701	3.0660	mg/L	103		85 - 115		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs: BXH1113, BXH1142, BXH1194, BXH1237, BXH1287, BXH1575, BXH1771.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXH1771		Used client sample: Y - Description: MTS-MW1, 08/11/2014 10:20									
Dissolved Sodium	DUP	1418368-01	28.391	27.563		mg/L	3.0		20		
	MS	1418368-01	28.391	39.537	10.204	mg/L		109		85 - 115	
	MSD	1418368-01	28.391	39.134	10.204	mg/L	1.0	105	20	85 - 115	
Dissolved Potassium	DUP	1418368-01	1.1130	1.0893		mg/L	2.2		20		
	MS	1418368-01	1.1130	12.658	10.204	mg/L		113		85 - 115	
	MSD	1418368-01	1.1130	12.588	10.204	mg/L	0.6	112	20	85 - 115	
QC Batch ID: BXH1805		Used client sample: Y - Description: RIC-MW1, 08/12/2014 14:00									
Total Kjeldahl Nitrogen	DUP	1418537-01	0.34300	0.32250		mg/L	6.2		20		
	MS	1418537-01	0.34300	2.2782	2.0000	mg/L		96.8		90 - 110	
	MSD	1418537-01	0.34300	2.2145	2.0000	mg/L	2.8	93.6	20	90 - 110	
QC Batch ID: BXH1807		Used client sample: Y - Description: RIC-MW1, 08/12/2014 14:00									
Total Phosphate	DUP	1418537-01	0.90116	0.95665		mg/L	6.0		20		
	MS	1418537-01	0.90116	3.9692	3.0660	mg/L		100		80 - 120	
	MSD	1418537-01	0.90116	4.0088	3.0660	mg/L	1.0	101	20	80 - 120	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 12:36
Project: Dairy Rep MP - Expanded Suite
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A10 PQL's and MDL's were raised due to matrix interference.



Date of Report: 09/02/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Sierra View Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1418700
Invoice ID: B182060

Enclosed are the results of analyses for samples received by the laboratory on 8/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1418700

Samples were filtered through a 0.45 micron filter for requested analyses.



14-18700

BC Laboratories, Inc.

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

Chain of Custody

Name: Blaine Tech Services
Address: 4731 Pell Drive #5
City: Sacramento
State: CA
Zip: 95838
Attn: David Webb (916) 925-2913 x102

Project: Dairy Representative Monitoring Program
Site: Sierra View Dairy
Samplers Name: V. Landa
Global ID -

Analysis Requested

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Analysis Requested	
					From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids
1	SIE-MW1	08/13/14	0800	GW	x	x
2	SIE-MW2				x	x
3	SIE-MW3				x	x
4	SIE-MW4				x	x
5	Field Duplicate				x	x
6						
7						
8						
9						
10						

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lundorff and Scalmanni Consulting Engineers via email: llavagnino@sce.com, rbryson@sce.com, pdhalliwal@sce.com
 4) Send bill to Blaine Tech Services, only.

Relinquished by: (Signature) [Signature]
 Relinquished by: (Signature) [Signature]
 Relinquished by: (Signature) [Signature]

Received by: [Signature] Date & Time: 08/13/14 @ 2215
 Received by: [Signature] Date & Time: 8-13-14 2045
 Received by: [Signature] Date & Time:



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-18700

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> /Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/13/14 2345
 Temperature: (A) 3.6 °C / (C) 3.8 °C Analyst Init: MM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 NO. INC. OR SS
 DO Cl₂ EOD MBAS CDT
 CHIEF DISTRIBUTION
 SUBMIT

Comments: _____
 Sample Numbering Completed By: MM Date/Time: 8/14/14 @ 0130 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1418700-01	COC Number: ---	Receive Date: 08/13/2014 23:45
	Project Number: ---	Sampling Date: 08/13/2014 08:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SIE-MW1	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1418700-01		Client Sample Name: SIE-MW1, 8/13/2014 8:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	99	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	20	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	92	mg/L	0.50	0.051	EPA-200.7	0.077		1
Dissolved Potassium	1.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	310	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	16	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	34	mg/L	0.20	0.050	EPA-300.0	ND	A01	4
Sulfate	32	mg/L	1.0	0.18	EPA-300.0	0.34		3
Total Dissolved Solids @ 180 C	620	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.38	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.079	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	5.7	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/19/14	08/27/14 23:07	JRG	PE-OP1	1	BXH2411
2	SM-2320B	08/19/14	08/19/14 19:50	RLP	MET-1	1	BXH1733
3	EPA-300.0	08/14/14	08/15/14 00:52	LD1	IC2	1	BXH1443
4	EPA-300.0	08/14/14	08/15/14 01:32	LD1	IC2	2	BXH1443
5	SM-2540C	08/19/14	08/19/14 13:00	CAD	MANUAL	3.333	BXH1717
6	EPA-351.2	08/21/14	08/26/14 11:46	JP1	SC-1	1	BXH2091
7	EPA-350.1	08/15/14	08/15/14 14:31	JP1	SC-1	1	BXH1322
8	EPA-353.2	08/14/14	08/14/14 09:32	TDC	KONE-1	1	BXH1484
9	EPA-365.4	08/21/14	08/26/14 10:28	JP1	SC-1	1	BXH2093

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1322						
Ammonia as N	BXH1322-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXH1443						
Chloride	BXH1443-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH1443-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1443-BLK1	0.33600	mg/L	1.0	0.18	J
QC Batch ID: BXH1484						
Nitrite as N	BXH1484-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1717						
Total Dissolved Solids @ 180 C	BXH1717-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH1733						
Bicarbonate Alkalinity as CaCO3	BXH1733-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH1733-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH1733-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2091						
Total Kjeldahl Nitrogen	BXH2091-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2093						
Total Phosphate	BXH2093-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2411						
Dissolved Calcium	BXH2411-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2411-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2411-BLK1	0.077132	mg/L	0.50	0.051	J
Dissolved Potassium	BXH2411-BLK1	ND	mg/L	1.0	0.10	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1322										
Ammonia as N	BXH1322-BS1	LCS	1.0128	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXH1443										
Chloride	BXH1443-BS1	LCS	49.495	50.000	mg/L	99.0		90 - 110		
Nitrate as N	BXH1443-BS1	LCS	5.0850	5.0000	mg/L	102		90 - 110		
Sulfate	BXH1443-BS1	LCS	97.886	100.00	mg/L	97.9		90 - 110		
QC Batch ID: BXH1484										
Nitrite as N	BXH1484-BS1	LCS	0.54245	0.50000	mg/L	108		90 - 110		
QC Batch ID: BXH1717										
Total Dissolved Solids @ 180 C	BXH1717-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH2091										
Total Kjeldahl Nitrogen	BXH2091-BS1	LCS	2.1574	2.0000	mg/L	108		90 - 110		
QC Batch ID: BXH2093										
Total Phosphate	BXH2093-BS1	LCS	3.2094	3.0660	mg/L	105		85 - 115		
QC Batch ID: BXH2411										
Dissolved Calcium	BXH2411-BS1	LCS	9.9131	10.000	mg/L	99.1		85 - 115		
Dissolved Magnesium	BXH2411-BS1	LCS	10.179	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2411-BS1	LCS	9.8048	10.000	mg/L	98.0		85 - 115		
Dissolved Potassium	BXH2411-BS1	LCS	9.3560	10.000	mg/L	93.6		85 - 115		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH1322		Used client sample: N								
Ammonia as N	DUP	1418409-03	ND	ND		mg/L			10	
	MS	1418409-03	ND	1.0911	1.1111	mg/L		98.2	90 - 110	
	MSD	1418409-03	ND	1.0660	1.1111	mg/L	2.3	95.9	10	90 - 110
QC Batch ID: BXH1443		Used client sample: N								
Chloride	DUP	418636-01RE	191.40	190.98		mg/L	0.2		10	
	MS	418636-01RE	191.40	299.01	101.01	mg/L		107	80 - 120	
	MSD	418636-01RE	191.40	299.54	101.01	mg/L	0.2	107	10	80 - 120
Nitrate as N	DUP	418636-01RE	2.0360	2.0900		mg/L	2.6		10	
	MS	418636-01RE	2.0360	12.867	10.101	mg/L		107	80 - 120	
	MSD	418636-01RE	2.0360	12.794	10.101	mg/L	0.6	107	10	80 - 120
Sulfate	DUP	418636-01RE	208.28	206.03		mg/L	1.1		10	
	MS	418636-01RE	208.28	422.03	202.02	mg/L		106	80 - 120	
	MSD	418636-01RE	208.28	421.43	202.02	mg/L	0.1	106	10	80 - 120
QC Batch ID: BXH1484		Used client sample: N								
Nitrite as N	DUP	1418592-01	ND	ND		mg/L			10	
	MS	1418592-01	ND	0.53903	0.52632	mg/L		102	90 - 110	
	MSD	1418592-01	ND	0.52872	0.52632	mg/L	1.9	100	10	90 - 110
QC Batch ID: BXH1717		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1418689-08	2560.0	2550.0		mg/L	0.4		10	
QC Batch ID: BXH1733		Used client sample: Y - Description: JAD-MW6d, 08/13/2014 10:35								
Bicarbonate Alkalinity as CaCO3	DUP	1418699-04	373.03	377.29		mg/L	1.1		10	
Carbonate Alkalinity as CaCO3	DUP	1418699-04	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1418699-04	ND	ND		mg/L			10	
QC Batch ID: BXH2091		Used client sample: Y - Description: LON-MW3B, 08/14/2014 11:10								
Total Kjeldahl Nitrogen	DUP	1418837-03	0.10970	0.15870		mg/L	36.5		20	J,A02
	MS	1418837-03	0.10970	1.9514	2.0000	mg/L		92.1	90 - 110	
	MSD	1418837-03	0.10970	1.9804	2.0000	mg/L	1.5	93.5	20	90 - 110
QC Batch ID: BXH2093		Used client sample: Y - Description: LON-MW3B, 08/14/2014 11:10								
Total Phosphate	DUP	1418837-03	ND	ND		mg/L			20	
	MS	1418837-03	ND	3.0487	3.0660	mg/L		99.4	80 - 120	
	MSD	1418837-03	ND	3.0745	3.0660	mg/L	0.8	100	20	80 - 120
QC Batch ID: BXH2411		Used client sample: N								
Dissolved Calcium	DUP	1418829-01	0.062292	0.059247		mg/L	5.0		20	J
	MS	1418829-01	0.062292	10.841	10.204	mg/L		106	85 - 115	
	MSD	1418829-01	0.062292	10.563	10.204	mg/L	2.6	103	20	85 - 115

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: BXH2411		Used client sample: N									
Dissolved Magnesium	DUP	1418829-01	0.067300	0.078798		mg/L	15.7		20		
	MS	1418829-01	0.067300	11.056	10.204	mg/L		108		85 - 115	
	MSD	1418829-01	0.067300	11.051	10.204	mg/L	0.1	108	20	85 - 115	
Dissolved Sodium	DUP	1418829-01	0.074069	0.067865		mg/L	8.7		20		J
	MS	1418829-01	0.074069	10.773	10.204	mg/L		105		85 - 115	
	MSD	1418829-01	0.074069	10.547	10.204	mg/L	2.1	103	20	85 - 115	
Dissolved Potassium	DUP	1418829-01	ND	ND		mg/L			20		
	MS	1418829-01	ND	10.392	10.204	mg/L		102		85 - 115	
	MSD	1418829-01	ND	10.106	10.204	mg/L	2.8	99.0	20	85 - 115	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/02/2014 10:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 09/11/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Sozinho Dairy #2
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419449
Invoice ID: B182576

Enclosed are the results of analyses for samples received by the laboratory on 8/21/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419449

Samples were filtered through a 0.45 micron filter for requested analyses.



ml 8/21/14
14-19459-49

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Analysis Requested

Report to:

Expanded Constituent Suite

Name: Blaine Tech Services

Address: 4731 Pell Drive #5

City: Sacramento

State: CA

Zip: 95838

Attn: David Webb (916) 925-2913 x102

Project: Dairy Representative Monitoring Program

Site: Sozinho Dairy #2

Samplers Name: J. Cavali & T. Ball

Global ID -

From Filtered Sample:
Ammonia-N, NO3-N,
NO2-N

From Filtered Sample:
Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Unfiltered Sample:
Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt/Pc Unpreserved
1	SO2-MW1				x
2	SO2-MW2				x
3	SO2-MW3				x
4	SO2-MW4				x
5	SO2-MW5s, SO2-MW5d (V)	08/21/2014	1215	GW	x
6 (V)	SO2-MW6s, SO2-MW6d		1255	GW	x
7 (V)	SO2-MW7s, SO2-MW7d		1335	GW	x
8	SO2-MW8s, SO2-MW8d				x
9	Field Duplicate				x
10					
11					
12					

Reinquired by: (Signature)

Reinquired by: (Signature)

Reinquired by: (Signature)

Reinquired by: (Signature)

Received by:

Received by:

Received by:

Received by:

Date & Time

Date & Time

Date & Time

Date & Time

09/21/14 2200

09/21/14 2200

09/21/14 2200

09/21/14 2200

Comments:

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lundorff and Scalmanini Consulting Engineers via email: llava@nino@isce.com, rbyson@isce.com, pdhall@isce.com
- Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-19449

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/21/14 1320
 Temperature: (A) 3.0 °C / (C) 3.2 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SIGHT / HOLDING TIME
 G-18 (NO) CP SS
 DO QZ BOD MEAS COC
 CHECK DISTRIBUTION
 SUB-CUT

Comments: _____
 Sample Numbering Completed By: AWI Date/Time: 8/21/14 0010 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419449-01	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 12:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SO2-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419449-02	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 12:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SO2-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419449-03	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 13:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SO2-MW7d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419449-01		Client Sample Name: SO2-MW5s, 8/21/2014 12:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	180	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	50	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	400	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	220	mg/L	1.0	0.13	EPA-300.0	0.90	A01	3
Nitrate as N	43	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	180	mg/L	2.0	0.36	EPA-300.0	0.53	A01	3
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.62	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	0.061	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 22:04	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/26/14 00:06	RLP	MET-1	2	BXH2448
3	EPA-300.0	08/22/14	08/23/14 04:25	LD1	IC1	2	BXH2261
4	EPA-300.0	08/22/14	08/23/14 10:06	LD1	IC1	5	BXH2261
5	SM-2540C	08/27/14	08/27/14 11:30	CAD	MANUAL	10	BXH2695
6	EPA-351.2	09/02/14	09/04/14 11:54	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/05/14 11:43	JP1	SC-1	1	BXI0447
8	EPA-353.2	08/22/14	08/22/14 08:07	TDC	KONE-1	1	BXH2139
9	EPA-365.4	09/02/14	09/04/14 09:26	JP1	SC-1	1	BXI0081

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419449-02		Client Sample Name: SO2-MW6d, 8/21/2014 12:55:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	43	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	410	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	190	mg/L	1.0	0.13	EPA-300.0	0.90	A01	3
Nitrate as N	42	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	95	mg/L	2.0	0.36	EPA-300.0	0.53	A01	3
Total Dissolved Solids @ 180 C	960	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.59	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	0.035	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.92	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 22:07	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/26/14 00:14	RLP	MET-1	2	BXH2448
3	EPA-300.0	08/22/14	08/23/14 04:40	LD1	IC1	2	BXH2261
4	EPA-300.0	08/22/14	08/23/14 10:21	LD1	IC1	5	BXH2261
5	SM-2540C	08/27/14	08/27/14 11:30	CAD	MANUAL	5	BXH2695
6	EPA-351.2	09/02/14	09/04/14 11:56	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/05/14 11:45	JP1	SC-1	1	BXI0447
8	EPA-353.2	08/22/14	08/22/14 08:07	TDC	KONE-1	1	BXH2139
9	EPA-365.4	09/02/14	09/04/14 09:27	JP1	SC-1	1	BXI0081

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419449-03		Client Sample Name: SO2-MW7d, 8/21/2014 1:35:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	190	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	54	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	420	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	230	mg/L	1.0	0.13	EPA-300.0	0.90	A01	3
Nitrate as N	46	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	130	mg/L	2.0	0.36	EPA-300.0	0.53	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.51	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	0.034	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 22:09	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/26/14 00:22	RLP	MET-1	2	BXH2448
3	EPA-300.0	08/22/14	08/23/14 07:08	LD1	IC1	2	BXH2261
4	EPA-300.0	08/22/14	08/23/14 09:36	LD1	IC1	5	BXH2261
5	SM-2540C	08/27/14	08/27/14 11:30	CAD	MANUAL	10	BXH2695
6	EPA-351.2	09/02/14	09/04/14 11:56	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/05/14 11:47	JP1	SC-1	1	BXI0447
8	EPA-353.2	08/22/14	08/22/14 08:07	TDC	KONE-1	1	BXH2139
9	EPA-365.4	09/02/14	09/04/14 09:28	JP1	SC-1	1	BXI0081

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2139						
Nitrite as N	BXH2139-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2261						
Chloride	BXH2261-BLK1	0.45100	mg/L	0.50	0.067	J
Nitrate as N	BXH2261-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2261-BLK1	0.26500	mg/L	1.0	0.18	J
QC Batch ID: BXH2420						
Dissolved Calcium	BXH2420-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2420-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2420-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2420-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2448						
Bicarbonate Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2695						
Total Dissolved Solids @ 180 C	BXH2695-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0079						
Total Kjeldahl Nitrogen	BXI0079-BLK1	0.059400	mg/L	0.20	0.053	J
QC Batch ID: BXI0081						
Total Phosphate	BXI0081-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0447						
Ammonia as N	BXI0447-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2139										
Nitrite as N	BXH2139-BS1	LCS	0.52696	0.50000	mg/L	105		90 - 110		
QC Batch ID: BXH2261										
Chloride	BXH2261-BS1	LCS	49.288	50.000	mg/L	98.6		90 - 110		
Nitrate as N	BXH2261-BS1	LCS	4.9780	5.0000	mg/L	99.6		90 - 110		
Sulfate	BXH2261-BS1	LCS	99.213	100.00	mg/L	99.2		90 - 110		
QC Batch ID: BXH2420										
Dissolved Calcium	BXH2420-BS1	LCS	9.4460	10.000	mg/L	94.5		85 - 115		
Dissolved Magnesium	BXH2420-BS1	LCS	10.320	10.000	mg/L	103		85 - 115		
Dissolved Sodium	BXH2420-BS1	LCS	10.035	10.000	mg/L	100		85 - 115		
Dissolved Potassium	BXH2420-BS1	LCS	9.7076	10.000	mg/L	97.1		85 - 115		
QC Batch ID: BXH2695										
Total Dissolved Solids @ 180 C	BXH2695-BS1	LCS	545.00	586.00	mg/L	93.0		90 - 110		
QC Batch ID: BXI0079										
Total Kjeldahl Nitrogen	BXI0079-BS1	LCS	2.0670	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI0081										
Total Phosphate	BXI0081-BS1	LCS	2.7599	3.0660	mg/L	90.0		85 - 115		
QC Batch ID: BXI0447										
Ammonia as N	BXI0447-BS1	LCS	1.0531	1.0000	mg/L	105		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2139		Used client sample: N								
Nitrite as N	DUP	1419435-01	ND	ND		mg/L			10	
	MS	1419435-01	ND	0.51881	0.52632	mg/L		98.6	90 - 110	
	MSD	1419435-01	ND	0.52214	0.52632	mg/L	0.6	99.2	10	90 - 110
QC Batch ID: BXH2261		Used client sample: Y - Description: SO2-MW5s, 08/21/2014 12:15								
Chloride	DUP	419449-01REZ	207.88	205.28		mg/L	1.3		10	
	MS	419449-01REZ	207.88	483.95	252.53	mg/L		109	80 - 120	
	MSD	419449-01REZ	207.88	480.18	252.53	mg/L	0.8	108	10	80 - 120
Nitrate as N	DUP	419449-01REZ	43.165	42.750		mg/L	1.0		10	
	MS	419449-01REZ	43.165	69.525	25.253	mg/L		104	80 - 120	
	MSD	419449-01REZ	43.165	69.268	25.253	mg/L	0.4	103	10	80 - 120
Sulfate	DUP	419449-01REZ	169.40	167.43		mg/L	1.2		10	
	MS	419449-01REZ	169.40	718.03	505.05	mg/L		109	80 - 120	
	MSD	419449-01REZ	169.40	712.68	505.05	mg/L	0.7	108	10	80 - 120
QC Batch ID: BXH2420		Used client sample: N								
Dissolved Calcium	DUP	1419344-01	253.71	246.70		mg/L	2.8		20	
	MS	1419344-01	253.71	257.38	10.204	mg/L		35.9	85 - 115	A03
	MSD	1419344-01	253.71	259.58	10.204	mg/L	0.9	57.5	20	85 - 115 A03
Dissolved Magnesium	DUP	1419344-01	71.492	72.582		mg/L	1.5		20	
	MS	1419344-01	71.492	82.840	10.204	mg/L		111	85 - 115	
	MSD	1419344-01	71.492	82.523	10.204	mg/L	0.4	108	20	85 - 115
Dissolved Sodium	DUP	1419344-01	171.57	166.75		mg/L	2.8		20	
	MS	1419344-01	171.57	177.15	10.204	mg/L		54.7	85 - 115	A03
	MSD	1419344-01	171.57	179.02	10.204	mg/L	1.0	73.0	20	85 - 115 A03
Dissolved Potassium	DUP	1419344-01	18.196	18.265		mg/L	0.4		20	
	MS	1419344-01	18.196	28.410	10.204	mg/L		100	85 - 115	
	MSD	1419344-01	18.196	28.739	10.204	mg/L	1.2	103	20	85 - 115
QC Batch ID: BXH2448		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419404-01	87.020	87.630		mg/L	0.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419404-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419404-01	ND	ND		mg/L			10	
QC Batch ID: BXH2695		Used client sample: Y - Description: SO2-MW5s, 08/21/2014 12:15								
Total Dissolved Solids @ 180 C	DUP	1419449-01	1620.0	1610.0		mg/L	0.6		10	
QC Batch ID: BXI0079		Used client sample: N								
Total Kjeldahl Nitrogen	DUP	1419345-05	0.96040	0.94960		mg/L	1.1		20	
	MS	1419345-05	0.96040	2.8732	2.0000	mg/L		95.6	90 - 110	
	MSD	1419345-05	0.96040	2.8183	2.0000	mg/L	1.9	92.9	20	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI0081		Used client sample: N								
Total Phosphate	DUP	1419345-05	0.35599	0.38113		mg/L	6.8		20	
	MS	1419345-05	0.35599	3.4182	3.0660	mg/L		99.9		80 - 120
	MSD	1419345-05	0.35599	3.3737	3.0660	mg/L	1.3	98.4	20	80 - 120
QC Batch ID: BXI0447		Used client sample: N								
Ammonia as N	DUP	1419428-03	0.16010	0.16260		mg/L	1.5		10	
	MS	1419428-03	0.16010	1.2598	1.1111	mg/L		99.0		90 - 110
	MSD	1419428-03	0.16010	1.2571	1.1111	mg/L	0.2	98.7	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.



Date of Report: 09/11/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Sozinho Jerseys
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419450
Invoice ID: B182577

Enclosed are the results of analyses for samples received by the laboratory on 8/21/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419450

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19450

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Analysis Requested

Report to:

Name: Blaine Tech Services

Address: 4731 Pell Drive #5

City: Sacramento

State: Zip: 95838

Attn: David Webb (916) 925-2913 x102

Project: Dairy Representative Monitoring Program

Site: Sozinho Jerseys

Samplers Name: V. Lando, T. Ball

Global ID -

From Filtered Sample: Ammonia-N, NO3-N, NO2-N

From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids

From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1 Pe Unpreserved
1	SOJ-MW4				X
2	SOJ-MW2				X
3	SOJ-MW3				X
4	SOJ-MW4				X
5	SOJ-MW5s, SOJ-MW5d	08/21/2014	1555	SLW	X
6	SOJ-MW6s, SOJ-MW6d		1630	SLW	X
7	Field-Duplicates				X
8					
9					
10					

Comments:

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lufordoff and Scalmanini Consulting Engineers via email: llavagnino@lsc.com, rbyson@lsc.com, pdhathival@lsc.com
- 4) Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative

Relinquished by: (Signature)	Received By:	Date & Time
<i>[Signature]</i>	<i>[Signature]</i>	08/21/14 2200
Relinquished by: (Signature)	Received by:	Date & Time
<i>[Signature]</i>	<i>[Signature]</i>	8/21/14 2820
Relinquished by: (Signature)	Received By:	Date & Time



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-19450

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 02/14/2010
 Temperature: (A) 3.0 °C / (C) 3.2 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 C+6 NO₂ NO₃ CP SS
 DO OR EDT IMPAS CUT
 CHK BY DISTRIBUTION
 MVI - MVI
 SUBMIT

Comments: _____
 Sample Numbering Completed By: MVI Date/Time: 2/14/2010 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16]
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419450-01	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 15:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SOJ-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419450-02	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 16:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SOJ-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419450-01		Client Sample Name: SOJ-MW5d, 8/21/2014 3:55:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	44	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	88	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	67	mg/L	1.0	0.13	EPA-300.0	0.37		3
Nitrate as N	31	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	40	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	760	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.45	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.23	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 22:12	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/26/14 00:31	RLP	MET-1	2	BXH2448
3	EPA-300.0	08/22/14	08/23/14 09:06	LD1	IC1	2	BXH2258
4	SM-2540C	08/27/14	08/27/14 11:30	CAD	MANUAL	5	BXH2695
5	EPA-351.2	09/02/14	09/03/14 16:43	JP1	SC-1	1	BXI0082
6	EPA-350.1	09/04/14	09/05/14 11:48	JP1	SC-1	1	BXI0447
7	EPA-353.2	08/22/14	08/22/14 08:07	TDC	KONE-1	1	BXH2139
8	EPA-365.4	09/02/14	09/03/14 15:13	JP1	SC-1	1	BXI0084

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1419450-02		Client Sample Name: SOJ-MW6d, 8/21/2014 4:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	73	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	15	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	51	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	260	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	8.3	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	11	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	28	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	320	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.78	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 22:14	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/26/14 00:40	RLP	MET-1	1	BXH2448
3	EPA-300.0	08/22/14	08/23/14 12:47	LD1	IC1	1	BXH2258
4	SM-2540C	08/27/14	08/27/14 11:30	CAD	MANUAL	3.333	BXH2695
5	EPA-351.2	09/02/14	09/03/14 16:48	JP1	SC-1	1	BXI0082
6	EPA-350.1	09/04/14	09/05/14 11:50	JP1	SC-1	1	BXI0448
7	EPA-353.2	08/22/14	08/22/14 08:12	TDC	KONE-1	1	BXH2139
8	EPA-365.4	09/02/14	09/03/14 15:17	JP1	SC-1	1	BXI0084

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2139						
Nitrite as N	BXH2139-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2258						
Chloride	BXH2258-BLK1	0.18300	mg/L	0.50	0.067	J
Nitrate as N	BXH2258-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2258-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2420						
Dissolved Calcium	BXH2420-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2420-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2420-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2420-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2448						
Bicarbonate Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2448-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2695						
Total Dissolved Solids @ 180 C	BXH2695-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0082						
Total Kjeldahl Nitrogen	BXI0082-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0084						
Total Phosphate	BXI0084-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0447						
Ammonia as N	BXI0447-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0448						
Ammonia as N	BXI0448-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2139										
Nitrite as N	BXH2139-BS1	LCS	0.52696	0.50000	mg/L	105		90 - 110		
QC Batch ID: BXH2258										
Chloride	BXH2258-BS1	LCS	49.001	50.000	mg/L	98.0		90 - 110		
Nitrate as N	BXH2258-BS1	LCS	4.9110	5.0000	mg/L	98.2		90 - 110		
Sulfate	BXH2258-BS1	LCS	98.177	100.00	mg/L	98.2		90 - 110		
QC Batch ID: BXH2420										
Dissolved Calcium	BXH2420-BS1	LCS	9.4460	10.000	mg/L	94.5		85 - 115		
Dissolved Magnesium	BXH2420-BS1	LCS	10.320	10.000	mg/L	103		85 - 115		
Dissolved Sodium	BXH2420-BS1	LCS	10.035	10.000	mg/L	100		85 - 115		
Dissolved Potassium	BXH2420-BS1	LCS	9.7076	10.000	mg/L	97.1		85 - 115		
QC Batch ID: BXH2695										
Total Dissolved Solids @ 180 C	BXH2695-BS1	LCS	545.00	586.00	mg/L	93.0		90 - 110		
QC Batch ID: BXI0082										
Total Kjeldahl Nitrogen	BXI0082-BS1	LCS	1.8563	2.0000	mg/L	92.8		90 - 110		
QC Batch ID: BXI0084										
Total Phosphate	BXI0084-BS1	LCS	3.0082	3.0660	mg/L	98.1		85 - 115		
QC Batch ID: BXI0447										
Ammonia as N	BXI0447-BS1	LCS	1.0531	1.0000	mg/L	105		90 - 110		
QC Batch ID: BXI0448										
Ammonia as N	BXI0448-BS1	LCS	0.98950	1.0000	mg/L	99.0		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH2139		Used client sample: N								
Nitrite as N	DUP	1419435-01	ND	ND		mg/L			10	
	MS	1419435-01	ND	0.51881	0.52632	mg/L		98.6		90 - 110
	MSD	1419435-01	ND	0.52214	0.52632	mg/L	0.6	99.2	10	90 - 110
QC Batch ID: BXH2258		Used client sample: N								
Chloride	DUP	419550-01RE	247.12	244.32		mg/L	1.1		10	
	MS	419550-01RE	247.12	522.61	252.53	mg/L		109		80 - 120
	MSD	419550-01RE	247.12	521.10	252.53	mg/L	0.3	108	10	80 - 120
Nitrate as N	DUP	419550-01RE	70.095	69.325		mg/L	1.1		10	
	MS	419550-01RE	70.095	95.894	25.253	mg/L		102		80 - 120
	MSD	419550-01RE	70.095	95.778	25.253	mg/L	0.1	102	10	80 - 120
Sulfate	DUP	419550-01RE	57.610	56.605		mg/L	1.8		10	
	MS	419550-01RE	57.610	596.18	505.05	mg/L		107		80 - 120
	MSD	419550-01RE	57.610	594.45	505.05	mg/L	0.3	106	10	80 - 120
QC Batch ID: BXH2420		Used client sample: N								
Dissolved Calcium	DUP	1419344-01	253.71	246.70		mg/L	2.8		20	
	MS	1419344-01	253.71	257.38	10.204	mg/L		35.9		85 - 115 A03
	MSD	1419344-01	253.71	259.58	10.204	mg/L	0.9	57.5	20	85 - 115 A03
Dissolved Magnesium	DUP	1419344-01	71.492	72.582		mg/L	1.5		20	
	MS	1419344-01	71.492	82.840	10.204	mg/L		111		85 - 115
	MSD	1419344-01	71.492	82.523	10.204	mg/L	0.4	108	20	85 - 115
Dissolved Sodium	DUP	1419344-01	171.57	166.75		mg/L	2.8		20	
	MS	1419344-01	171.57	177.15	10.204	mg/L		54.7		85 - 115 A03
	MSD	1419344-01	171.57	179.02	10.204	mg/L	1.0	73.0	20	85 - 115 A03
Dissolved Potassium	DUP	1419344-01	18.196	18.265		mg/L	0.4		20	
	MS	1419344-01	18.196	28.410	10.204	mg/L		100		85 - 115
	MSD	1419344-01	18.196	28.739	10.204	mg/L	1.2	103	20	85 - 115
QC Batch ID: BXH2448		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419404-01	87.020	87.630		mg/L	0.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419404-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419404-01	ND	ND		mg/L			10	
QC Batch ID: BXH2695		Used client sample: Y - Description: SO2-MW5s, 08/21/2014 12:15								
Total Dissolved Solids @ 180 C	DUP	1419449-01	1620.0	1610.0		mg/L	0.6		10	
QC Batch ID: BXI0082		Used client sample: Y - Description: SOJ-MW5d, 08/21/2014 15:55								
Total Kjeldahl Nitrogen	DUP	1419450-01	0.44510	0.36730		mg/L	19.2		20	
	MS	1419450-01	0.44510	2.1986	2.0000	mg/L		87.7		90 - 110 Q03
	MSD	1419450-01	0.44510	2.2080	2.0000	mg/L	0.4	88.1	20	90 - 110 Q03

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI0084		Used client sample: Y - Description: SOJ-MW5d, 08/21/2014 15:55								
Total Phosphate	DUP	1419450-01	0.22996	0.21586		mg/L	6.3		20	
	MS	1419450-01	0.22996	3.1815	3.0660	mg/L		96.3		80 - 120
	MSD	1419450-01	0.22996	3.2554	3.0660	mg/L	2.3	98.7	20	80 - 120
QC Batch ID: BXI0447		Used client sample: N								
Ammonia as N	DUP	1419428-03	0.16010	0.16260		mg/L	1.5		10	
	MS	1419428-03	0.16010	1.2598	1.1111	mg/L		99.0		90 - 110
	MSD	1419428-03	0.16010	1.2571	1.1111	mg/L	0.2	98.7	10	90 - 110
QC Batch ID: BXI0448		Used client sample: Y - Description: SOJ-MW6d, 08/21/2014 16:30								
Ammonia as N	DUP	1419450-02	0.037800	0.037800		mg/L	0		10	J
	MS	1419450-02	0.037800	1.1728	1.1111	mg/L		102		90 - 110
	MSD	1419450-02	0.037800	1.1728	1.1111	mg/L	0	102	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.

Central Area



Date of Report: 09/16/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Albert Mendes Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419345
Invoice ID: B183386

Enclosed are the results of analyses for samples received by the laboratory on 8/20/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419345

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19345

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Analysis Requested

Report to:

Expanded Constituent Suite

Project: Dairy Representative Monitoring Program
Site: Albert Mendes Dairy 3Q - Annual
Sample Name: Del Tech/Steag Young
Global ID -

From Filtered Sample:
Ammonia-N, NO3-N,
NO2-N

From Filtered Sample:
Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Unfiltered Sample:
Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1 Pe Unpreserved
1	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s	8-20-14	14:35	GW	x
2	MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s		14:05		x
3	MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s		12:28		x
4	MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s		11:59		x
5	MEN-MW5s, MEN-MW6s, MEN-MW7s		11:38		x
6	MEN-MW6s, MEN-MW7s		13:39		x
7	MEN-MW7s		12:56		x
8	# 3 Field Duplicate		11A		x
9					
10					
11					
12					

Relinquished by: (Signature)
8-20-14 / 1835
Relinquished by: (Signature)
8-20-14 19:00
Relinquished by: (Signature)
8-20-14 20:05

Received By: [Signature]
Date & Time: 8/20/14 18:35
Received By: [Signature]
Date & Time: 8/20/14 19:00
Received By: [Signature]
Date & Time: 8/20/14 20:05

Comments:
1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
2) Lab reports shall identify sampled wells exactly as shown on this CoC.
3) Send lab reports to Luhnoff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhalliwal@lscce.com
4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

Lab - Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 2

Submission #: 14-19345

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/20/14 2235
 Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: MWI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE:										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 Cr⁶⁺ NO₃ OP SS
 DO Cl₂ ROD MEAS. COT

CHK BY: MWI
 DISTRIBUTION
 SUBJECT

Comments: _____
 Sample Numbering Completed By: MWI Date/Time: 8/21/14 0040
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-19345

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: pe Thermometer ID: 207 Date/Time: 8/20/14 2235
 Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: MW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			AB	AB	AB	AB	AB	AB		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE:										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/20/14 @ 0040 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419345-01	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 14:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419345-02	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 14:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419345-03	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 12:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419345-04	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 11:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419345-05	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 11:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419345-06	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 13:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419345-07	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 12:56
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419345-08	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1419345-01	Client Sample Name:	MEN-MW1s, 8/20/2014 2:35:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	300	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	160	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	710	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	240	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	2100	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	960	mg/L	5.0	0.67	EPA-300.0	2.1	A01	3
Nitrate as N	11	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	150	mg/L	10	1.8	EPA-300.0	3.3	A01	3
Total Dissolved Solids @ 180 C	3400	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	140	mg/L	10	2.6	EPA-351.2	ND	A01	5
Ammonia as N	140	mg/L	25	8.2	EPA-350.1	ND	A01	6
Nitrite as N	0.026	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:24	JRG	PE-OP1	1	BXH2421
2	SM-2320B	08/25/14	08/25/14 18:09	RLP	MET-1	2	BXH2445
3	EPA-300.0	08/22/14	08/22/14 11:21	OLH	IC1	10	BXH2231
4	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	20	BXH2569
5	EPA-351.2	09/02/14	09/04/14 12:56	JP1	SC-1	50	BXI0077
6	EPA-350.1	09/04/14	09/04/14 22:48	JP1	SC-1	250	BXI0330
7	EPA-353.2	08/21/14	08/21/14 09:45	TDC	KONE-1	1	BXH2074
8	EPA-365.4	09/02/14	09/04/14 09:13	JP1	SC-1	5	BXI0078

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419345-02		Client Sample Name: MEN-MW2s, 8/20/2014 2:05:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	250	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	84	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	440	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	90	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	950	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	610	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	20	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	190	mg/L	5.0	0.90	EPA-300.0	1.6	A01	3
Total Dissolved Solids @ 180 C	2100	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	2.6	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	1.1	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.24	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.24	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:26	JRG	PE-OP1	1	BXH2421
2	SM-2320B	08/25/14	08/25/14 18:24	RLP	MET-1	2	BXH2445
3	EPA-300.0	08/22/14	08/22/14 11:06	OLH	IC1	5	BXH2231
4	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	10	BXH2569
5	EPA-351.2	09/02/14	09/04/14 11:34	JP1	SC-1	1	BXI0077
6	EPA-350.1	09/04/14	09/05/14 08:08	JP1	SC-1	1	BXI0330
7	EPA-353.2	08/21/14	08/21/14 09:45	TDC	KONE-1	1	BXH2074
8	EPA-365.4	09/02/14	09/04/14 09:13	JP1	SC-1	1	BXI0078

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419345-03	Client Sample Name: MEN-MW3s, 8/20/2014 12:28:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	240	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	81	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	270	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	14	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	720	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	280	mg/L	2.5	0.34	EPA-300.0	1.1	A01	4
Nitrate as N	77	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	89	mg/L	5.0	0.90	EPA-300.0	1.6	A01	4
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	2.3	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.099	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.71	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	21	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:44	JRG	PE-OP1	1	BXH2421
2	EPA-200.7	08/25/14	09/08/14 01:01	JRG	PE-OP1	1	BXH2421
3	SM-2320B	08/25/14	08/25/14 18:35	RLP	MET-1	2	BXH2445
4	EPA-300.0	08/22/14	08/22/14 10:22	OLH	IC1	5	BXH2231
5	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	10	BXH2569
6	EPA-351.2	09/02/14	09/04/14 11:36	JP1	SC-1	1	BXI0077
7	EPA-350.1	09/04/14	09/04/14 22:00	JP1	SC-1	1	BXI0330
8	EPA-353.2	08/21/14	08/21/14 09:45	TDC	KONE-1	1	BXH2074
9	EPA-365.4	09/02/14	09/04/14 09:51	JP1	SC-1	5	BXI0078

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419345-04	Client Sample Name: MEN-MW4s, 8/20/2014 11:59:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	190	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	54	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	220	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	7.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	540	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	210	mg/L	2.5	0.34	EPA-300.0	1.1	A01	4
Nitrate as N	66	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	72	mg/L	5.0	0.90	EPA-300.0	1.6	A01	4
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	1.8	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.48	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	9.2	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:39	JRG	PE-OP1	1	BXH2421
2	EPA-200.7	08/25/14	09/08/14 01:04	JRG	PE-OP1	1	BXH2421
3	SM-2320B	08/25/14	08/25/14 18:46	RLP	MET-1	2	BXH2445
4	EPA-300.0	08/22/14	08/22/14 10:07	OLH	IC1	5	BXH2231
5	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	10	BXH2569
6	EPA-351.2	09/02/14	09/04/14 11:49	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/04/14 22:02	JP1	SC-1	1	BXI0330
8	EPA-353.2	08/21/14	08/21/14 09:45	TDC	KONE-1	1	BXH2074
9	EPA-365.4	09/02/14	09/04/14 09:52	JP1	SC-1	5	BXI0081

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419345-05	Client Sample Name: MEN-MW5s, 8/20/2014 11:38:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	37	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	140	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	12	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	410	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	160	mg/L	1.0	0.13	EPA-300.0	0.42	A01	4
Nitrate as N	50	mg/L	0.20	0.050	EPA-300.0	ND	A01,S01,Z2	4
Sulfate	56	mg/L	2.0	0.36	EPA-300.0	0.66	A01	4
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.96	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.13	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.36	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:41	JRG	PE-OP1	1	BXH2421
2	EPA-200.7	08/25/14	09/08/14 01:06	JRG	PE-OP1	1	BXH2421
3	SM-2320B	08/25/14	08/25/14 18:56	RLP	MET-1	2	BXH2445
4	EPA-300.0	08/22/14	08/22/14 09:52	OLH	IC1	2	BXH2231
5	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	5	BXH2569
6	EPA-351.2	09/02/14	09/04/14 11:45	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/04/14 22:04	JP1	SC-1	1	BXI0331
8	EPA-353.2	08/21/14	08/21/14 09:45	TDC	KONE-1	1	BXH2075
9	EPA-365.4	09/02/14	09/04/14 09:20	JP1	SC-1	1	BXI0081

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419345-06	Client Sample Name: MEN-MW6s, 8/20/2014 1:34:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	190	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	47	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	340	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	6.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	650	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	340	mg/L	2.5	0.34	EPA-300.0	1.1	A01	4
Nitrate as N	32	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	1.6	A01	4
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	1.1	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	0.044	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.50	mg/L	0.25	0.050	EPA-353.2	ND	A01	8
Total Phosphate	0.20	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:46	JRG	PE-OP1	1	BXH2421
2	EPA-200.7	08/25/14	09/08/14 01:09	JRG	PE-OP1	1	BXH2421
3	SM-2320B	08/25/14	08/25/14 19:04	RLP	MET-1	2	BXH2445
4	EPA-300.0	08/22/14	08/22/14 10:51	OLH	IC1	5	BXH2231
5	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	10	BXH2569
6	EPA-351.2	09/02/14	09/04/14 11:50	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/04/14 22:07	JP1	SC-1	1	BXI0331
8	EPA-353.2	08/21/14	08/21/14 10:31	TDC	KONE-1	5	BXH2076
9	EPA-365.4	09/02/14	09/04/14 09:24	JP1	SC-1	1	BXI0081

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419345-07		Client Sample Name: MEN-MW7s, 8/20/2014 12:56:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	59	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	220	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	200	mg/L	2.5	0.34	EPA-300.0	1.1	A01	4
Nitrate as N	53	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	1.6	A01	4
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	2.5	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	0.060	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.77	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.16	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:49	JRG	PE-OP1	1	BXH2421
2	EPA-200.7	08/25/14	09/08/14 01:12	JRG	PE-OP1	1	BXH2421
3	SM-2320B	08/25/14	08/25/14 19:15	RLP	MET-1	2	BXH2445
4	EPA-300.0	08/22/14	08/22/14 10:37	OLH	IC1	5	BXH2231
5	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	10	BXH2569
6	EPA-351.2	09/02/14	09/04/14 11:50	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/04/14 22:09	JP1	SC-1	1	BXI0331
8	EPA-353.2	08/21/14	08/21/14 10:10	TDC	KONE-1	1	BXH2076
9	EPA-365.4	09/02/14	09/04/14 09:24	JP1	SC-1	1	BXI0081

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419345-08		Client Sample Name: Field Duplicate #3, 8/20/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	180	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	59	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	230	mg/L	0.50	0.051	EPA-200.7	ND		2
Dissolved Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	200	mg/L	2.5	0.34	EPA-300.0	1.1	A01	4
Nitrate as N	52	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	1.6	A01	4
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	2.6	mg/L	0.20	0.053	EPA-351.2	0.059		6
Ammonia as N	0.054	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.77	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 23:51	JRG	PE-OP1	1	BXH2421
2	EPA-200.7	08/25/14	09/08/14 01:14	JRG	PE-OP1	1	BXH2421
3	SM-2320B	08/25/14	08/25/14 19:43	RLP	MET-1	2	BXH2446
4	EPA-300.0	08/22/14	08/22/14 11:36	OLH	IC1	5	BXH2231
5	SM-2540C	08/26/14	08/26/14 13:15	CAD	MANUAL	10	BXH2569
6	EPA-351.2	09/02/14	09/04/14 11:52	JP1	SC-1	1	BXI0079
7	EPA-350.1	09/04/14	09/04/14 22:11	JP1	SC-1	1	BXI0331
8	EPA-353.2	08/21/14	08/21/14 10:10	TDC	KONE-1	1	BXH2076
9	EPA-365.4	09/02/14	09/04/14 09:25	JP1	SC-1	1	BXI0081

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2074						
Nitrite as N	BXH2074-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2075						
Nitrite as N	BXH2075-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2076						
Nitrite as N	BXH2076-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2231						
Chloride	BXH2231-BLK1	0.21200	mg/L	0.50	0.067	J
Nitrate as N	BXH2231-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2231-BLK1	0.32800	mg/L	1.0	0.18	J
QC Batch ID: BXH2421						
Dissolved Calcium	BXH2421-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2421-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2421-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2421-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2445						
Bicarbonate Alkalinity as CaCO3	BXH2445-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2445-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2445-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2446						
Bicarbonate Alkalinity as CaCO3	BXH2446-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2446-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2446-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2569						
Total Dissolved Solids @ 180 C	BXH2569-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0077						
Total Kjeldahl Nitrogen	BXI0077-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0078						
Total Phosphate	BXI0078-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0079						
Total Kjeldahl Nitrogen	BXI0079-BLK1	0.059400	mg/L	0.20	0.053	J

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0081						
Total Phosphate	BXI0081-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0330						
Ammonia as N	BXI0330-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0331						
Ammonia as N	BXI0331-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2074										
Nitrite as N	BXH2074-BS1	LCS	0.51150	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH2075										
Nitrite as N	BXH2075-BS1	LCS	0.50759	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH2076										
Nitrite as N	BXH2076-BS1	LCS	0.50842	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH2231										
Chloride	BXH2231-BS1	LCS	51.313	50.000	mg/L	103		90 - 110		
Nitrate as N	BXH2231-BS1	LCS	5.0840	5.0000	mg/L	102		90 - 110		
Sulfate	BXH2231-BS1	LCS	102.81	100.00	mg/L	103		90 - 110		
QC Batch ID: BXH2421										
Dissolved Calcium	BXH2421-BS1	LCS	9.9314	10.000	mg/L	99.3		85 - 115		
Dissolved Magnesium	BXH2421-BS1	LCS	10.438	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXH2421-BS1	LCS	10.182	10.000	mg/L	102		85 - 115		
Dissolved Potassium	BXH2421-BS1	LCS	10.002	10.000	mg/L	100		85 - 115		
QC Batch ID: BXH2569										
Total Dissolved Solids @ 180 C	BXH2569-BS1	LCS	590.00	586.00	mg/L	101		90 - 110		
QC Batch ID: BXI0077										
Total Kjeldahl Nitrogen	BXI0077-BS1	LCS	1.9819	2.0000	mg/L	99.1		90 - 110		
QC Batch ID: BXI0078										
Total Phosphate	BXI0078-BS1	LCS	2.8341	3.0660	mg/L	92.4		85 - 115		
QC Batch ID: BXI0079										
Total Kjeldahl Nitrogen	BXI0079-BS1	LCS	2.0670	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI0081										
Total Phosphate	BXI0081-BS1	LCS	2.7599	3.0660	mg/L	90.0		85 - 115		
QC Batch ID: BXI0330										
Ammonia as N	BXI0330-BS1	LCS	1.0699	1.0000	mg/L	107		90 - 110		
QC Batch ID: BXI0331										
Ammonia as N	BXI0331-BS1	LCS	1.0812	1.0000	mg/L	108		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2074		Used client sample: Y - Description: MOO-MW1, 08/20/2014 17:35								
Nitrite as N	DUP	1419343-01	0.016600	0.017103		mg/L	3.0		10	J
	MS	1419343-01	0.016600	0.53062	0.52632	mg/L		97.7	90 - 110	
	MSD	1419343-01	0.016600	0.52951	0.52632	mg/L	0.2	97.5	10 90 - 110	
QC Batch ID: BXH2075		Used client sample: Y - Description: MEN-MW5s, 08/20/2014 11:38								
Nitrite as N	DUP	1419345-05	0.12700	0.12654		mg/L	0.4		10	
	MS	1419345-05	0.12700	0.65106	0.52632	mg/L		99.6	90 - 110	
	MSD	1419345-05	0.12700	0.65312	0.52632	mg/L	0.3	100	10 90 - 110	
QC Batch ID: BXH2076		Used client sample: Y - Description: MEN-MW6s, 08/20/2014 13:34								
Nitrite as N	DUP	1419345-06	0.50046	0.51030		mg/L	1.9		10	
	MS	1419345-06	0.50046	1.0084	0.52632	mg/L		96.5	90 - 110	
	MSD	1419345-06	0.50046	1.0018	0.52632	mg/L	0.7	95.2	10 90 - 110	
QC Batch ID: BXH2231		Used client sample: Y - Description: MEN-MW1s, 08/20/2014 14:35								
Chloride	DUP	419345-01RE'	960.87	959.80		mg/L	0.1		10	
	MS	419345-01RE'	960.87	1463.4	505.05	mg/L		99.5	80 - 120	
	MSD	419345-01RE'	960.87	1466.7	505.05	mg/L	0.2	100	10 80 - 120	
Nitrate as N	DUP	419345-01RE'	10.860	10.550		mg/L	2.9		10	
	MS	419345-01RE'	10.860	61.848	50.505	mg/L		101	80 - 120	
	MSD	419345-01RE'	10.860	61.747	50.505	mg/L	0.2	101	10 80 - 120	
Sulfate	DUP	419345-01RE'	147.07	145.83		mg/L	0.8		10	
	MS	419345-01RE'	147.07	1185.5	1010.1	mg/L		103	80 - 120	
	MSD	419345-01RE'	147.07	1185.9	1010.1	mg/L	0.0	103	10 80 - 120	
QC Batch ID: BXH2421		Used client sample: N								
Dissolved Calcium	DUP	1419451-01	242.58	245.14		mg/L	1.1		20	
	MS	1419451-01	242.58	253.06	10.204	mg/L		103	85 - 115	
	MSD	1419451-01	242.58	252.40	10.204	mg/L	0.3	96.2	20 85 - 115	
Dissolved Magnesium	DUP	1419451-01	24.713	24.520		mg/L	0.8		20	
	MS	1419451-01	24.713	34.915	10.204	mg/L		100	85 - 115	
	MSD	1419451-01	24.713	35.120	10.204	mg/L	0.6	102	20 85 - 115	
Dissolved Sodium	DUP	1419451-01	192.14	193.12		mg/L	0.5		20	
	MS	1419451-01	192.14	198.98	10.204	mg/L		67.0	85 - 115	A03
	MSD	1419451-01	192.14	197.28	10.204	mg/L	0.9	50.4	20 85 - 115	A03
Dissolved Potassium	DUP	1419451-01	0.89043	0.87156		mg/L	2.1		20	J
	MS	1419451-01	0.89043	11.916	10.204	mg/L		108	85 - 115	
	MSD	1419451-01	0.89043	12.141	10.204	mg/L	1.9	110	20 85 - 115	
QC Batch ID: BXH2445		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Bicarbonate Alkalinity as CaCO3	DUP	1419344-02	272.93	272.32		mg/L	0.2		10	
Carbonate Alkalinity as CaCO3	DUP	1419344-02	ND	ND		mg/L			10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2445		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Hydroxide Alkalinity as CaCO3	DUP	1419344-02	ND	ND		mg/L			10	
QC Batch ID: BXH2446		Used client sample: Y - Description: Field Duplicate #3, 08/20/2014 00:00								
Bicarbonate Alkalinity as CaCO3	DUP	1419345-08	507.82	509.34		mg/L	0.3		10	
Carbonate Alkalinity as CaCO3	DUP	1419345-08	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419345-08	ND	ND		mg/L			10	
QC Batch ID: BXH2569		Used client sample: Y - Description: MEN-MW1s, 08/20/2014 14:35								
Total Dissolved Solids @ 180 C	DUP	1419345-01	3380.0	3300.0		mg/L	2.4		10	
QC Batch ID: BXI0077		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Total Kjeldahl Nitrogen	DUP	1419344-02	0.61700	0.64610		mg/L	4.6		20	
	MS	1419344-02	0.61700	2.3436	2.0000	mg/L		86.3		90 - 110 Q03
	MSD	1419344-02	0.61700	2.4018	2.0000	mg/L	2.5	89.2	20	90 - 110 Q03
QC Batch ID: BXI0078		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Total Phosphate	DUP	1419344-02	0.74999	0.68652		mg/L	8.8		20	
	MS	1419344-02	0.74999	3.7172	3.0660	mg/L		96.8		80 - 120
	MSD	1419344-02	0.74999	3.6175	3.0660	mg/L	2.7	93.5	20	80 - 120
QC Batch ID: BXI0079		Used client sample: Y - Description: MEN-MW5s, 08/20/2014 11:38								
Total Kjeldahl Nitrogen	DUP	1419345-05	0.96040	0.94960		mg/L	1.1		20	
	MS	1419345-05	0.96040	2.8732	2.0000	mg/L		95.6		90 - 110
	MSD	1419345-05	0.96040	2.8183	2.0000	mg/L	1.9	92.9	20	90 - 110
QC Batch ID: BXI0081		Used client sample: Y - Description: MEN-MW5s, 08/20/2014 11:38								
Total Phosphate	DUP	1419345-05	0.35599	0.38113		mg/L	6.8		20	
	MS	1419345-05	0.35599	3.4182	3.0660	mg/L		99.9		80 - 120
	MSD	1419345-05	0.35599	3.3737	3.0660	mg/L	1.3	98.4	20	80 - 120
QC Batch ID: BXI0330		Used client sample: Y - Description: MOO-MW8s, 08/20/2014 16:02								
Ammonia as N	DUP	1419343-05	0.040700	0.036400		mg/L	11.2		10	J,A02
	MS	1419343-05	0.040700	1.1780	1.1111	mg/L		102		90 - 110
	MSD	1419343-05	0.040700	1.1649	1.1111	mg/L	1.1	101	10	90 - 110
QC Batch ID: BXI0331		Used client sample: Y - Description: MEN-MW5s, 08/20/2014 11:38								
Ammonia as N	DUP	1419345-05	ND	ND		mg/L			10	
	MS	1419345-05	ND	1.1122	1.1111	mg/L		100		90 - 110
	MSD	1419345-05	ND	1.1553	1.1111	mg/L	3.8	104	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:02
Project: Dairy Rep MP - Expanded Suite
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S01 Sample result is not within the quantitation range of the method.
- Z2 Sample was re-analyzed past hold time to confirm over calibration result , recheck result was consistent.



Date of Report: 09/11/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Anchor J. Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419467
Invoice ID: B182889

Enclosed are the results of analyses for samples received by the laboratory on 8/21/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419467

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to: Expanded Constituent Suite			
Project: Dairy Representative Monitoring Program Site: Anchor J. Dairy 30 Annual Samplers Name: Del Tech/Sally Young Global ID:			
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 Attn: Don Light			
Lab # 1 2 -13 4 5 -2 -37 9 10 11 12	Strike out non-sampled wells ANC-MW1 ANC-MW2 ANC-MW3 ANC-MW4 ANC-MW5, ANC-MW5B ANC-MW6s, ANC-MW6B ANC-MW7s, ANC-MW7B Field Duplicate	Date Sampled 8-21-14 18:26 8-21-14 15:08 8-21-14 19:51	Matrix GW GW GW
From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids		From Filtered Sample: Ammonia-N, NO3-N, NO2-N	
From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3			
Relinquished by: (Signature) [Signature] 8-21-14 / 19:02		Received By: [Signature] 8-21-14 19:02	
Relinquished by: (Signature) [Signature] 8-21-14 19:55		Received by: [Signature] 8-21-14 19:55	
Relinquished by: (Signature) [Signature]		Received By: [Signature] 8-21-14 19:55	
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lohdort and Scalmani Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhalwal@lscce.com 4) Send bill to Del-Tech, only.			
(A)= Analysis (C)= Container (P)= Preservative			

Lab Filter

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-19467

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 107 Date/Time: 02-14-2017
 Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	AB	AB	AB							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: M Date/Time: 02/14/2017 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419467-01	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 18:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANC-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419467-02	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 15:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANC-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419467-03	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 17:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANC-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419467-01	Client Sample Name: ANC-MW3, 8/21/2014 6:26:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	33	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	210	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	350	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	170	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	42	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	110	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.034	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.027	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.57	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	08/27/14 22:23	JRG	PE-OP1	1	BXH2733
2	SM-2320B	08/26/14	08/26/14 15:47	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 13:31	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2826
5	EPA-351.2	09/02/14	09/03/14 16:54	JP1	SC-1	1	BXI0082
6	EPA-350.1	09/04/14	09/05/14 12:01	JP1	SC-1	1	BXI0448
7	EPA-353.2	08/22/14	08/22/14 08:12	TDC	KONE-1	1	BXH2141
8	EPA-365.4	09/02/14	09/03/14 15:20	JP1	SC-1	1	BXI0084

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419467-02		Client Sample Name: ANC-MW6s, 8/21/2014 3:08:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	60	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	170	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	6.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	240	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	1.0	0.13	EPA-300.0	0.72	A01	3
Nitrate as N	20	mg/L	0.20	0.050	EPA-300.0	0.074	A01	3
Sulfate	74	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	800	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.49	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.054	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.67	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	22	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	08/27/14 22:35	JRG	PE-OP1	1	BXH2733
2	SM-2320B	08/26/14	08/26/14 16:01	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 08:52	LD1	IC1	2	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2826
5	EPA-351.2	09/02/14	09/03/14 16:55	JP1	SC-1	1	BXI0082
6	EPA-350.1	09/04/14	09/05/14 12:01	JP1	SC-1	1	BXI0448
7	EPA-353.2	08/22/14	08/22/14 08:16	TDC	KONE-1	1	BXH2141
8	EPA-365.4	09/02/14	09/03/14 15:38	JP1	SC-1	5	BXI0084

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419467-03		Client Sample Name: ANC-MW7s, 8/21/2014 5:41:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	100	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	29	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	240	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	32	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	59	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	810	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.045	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.58	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	08/27/14 22:38	JRG	PE-OP1	1	BXH2733
2	SM-2320B	08/26/14	08/26/14 16:07	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 13:02	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2826
5	EPA-351.2	09/03/14	09/06/14 16:00	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/04/14	09/05/14 12:03	JP1	SC-1	1	BXI0448
7	EPA-353.2	08/22/14	08/22/14 08:16	TDC	KONE-1	1	BXH2141
8	EPA-365.4	09/03/14	09/06/14 14:34	JP1	SC-1	1	BXI0167

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2141						
Nitrite as N	BXH2141-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2259						
Chloride	BXH2259-BLK1	0.35800	mg/L	0.50	0.067	J
Nitrate as N	BXH2259-BLK1	0.037000	mg/L	0.10	0.025	J
Sulfate	BXH2259-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2454						
Bicarbonate Alkalinity as CaCO3	BXH2454-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2454-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2454-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2733						
Dissolved Calcium	BXH2733-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2733-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2733-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2733-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2826						
Total Dissolved Solids @ 180 C	BXH2826-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0082						
Total Kjeldahl Nitrogen	BXI0082-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0084						
Total Phosphate	BXI0084-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0166						
Total Kjeldahl Nitrogen	BXI0166-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0167						
Total Phosphate	BXI0167-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0448						
Ammonia as N	BXI0448-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2141										
Nitrite as N	BXH2141-BS1	LCS	0.50982	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH2259										
Chloride	BXH2259-BS1	LCS	49.578	50.000	mg/L	99.2		90 - 110		
Nitrate as N	BXH2259-BS1	LCS	5.0380	5.0000	mg/L	101		90 - 110		
Sulfate	BXH2259-BS1	LCS	99.820	100.00	mg/L	99.8		90 - 110		
QC Batch ID: BXH2733										
Dissolved Calcium	BXH2733-BS1	LCS	9.9350	10.000	mg/L	99.3		85 - 115		
Dissolved Magnesium	BXH2733-BS1	LCS	10.039	10.000	mg/L	100		85 - 115		
Dissolved Sodium	BXH2733-BS1	LCS	9.7344	10.000	mg/L	97.3		85 - 115		
Dissolved Potassium	BXH2733-BS1	LCS	9.3611	10.000	mg/L	93.6		85 - 115		
QC Batch ID: BXH2826										
Total Dissolved Solids @ 180 C	BXH2826-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXI0082										
Total Kjeldahl Nitrogen	BXI0082-BS1	LCS	1.8563	2.0000	mg/L	92.8		90 - 110		
QC Batch ID: BXI0084										
Total Phosphate	BXI0084-BS1	LCS	3.0082	3.0660	mg/L	98.1		85 - 115		
QC Batch ID: BXI0166										
Total Kjeldahl Nitrogen	BXI0166-BS1	LCS	2.0636	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI0167										
Total Phosphate	BXI0167-BS1	LCS	2.9442	3.0660	mg/L	96.0		85 - 115		
QC Batch ID: BXI0448										
Ammonia as N	BXI0448-BS1	LCS	0.98950	1.0000	mg/L	99.0		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2141		Used client sample: Y - Description: ANC-MW3, 08/21/2014 18:26								
Nitrite as N	DUP	1419467-01	0.027233	0.027197		mg/L	0.1		10	J
	MS	1419467-01	0.027233	0.55530	0.52632	mg/L		100	90 - 110	
	MSD	1419467-01	0.027233	0.55095	0.52632	mg/L	0.8	99.5	10	90 - 110
QC Batch ID: BXH2259		Used client sample: Y - Description: ANT-MW1d, 08/21/2014 14:04								
Chloride	DUP	419468-01RE'	165.84	167.11		mg/L	0.8		10	
	MS	419468-01RE'	165.84	272.44	101.01	mg/L		106	80 - 120	
	MSD	419468-01RE'	165.84	271.88	101.01	mg/L	0.2	105	10	80 - 120
Nitrate as N	DUP	419468-01RE'	26.922	27.052		mg/L	0.5		10	
	MS	419468-01RE'	26.922	37.594	10.101	mg/L		106	80 - 120	
	MSD	419468-01RE'	26.922	37.515	10.101	mg/L	0.2	105	10	80 - 120
Sulfate	DUP	419468-01RE'	125.85	126.70		mg/L	0.7		10	
	MS	419468-01RE'	125.85	348.68	202.02	mg/L		110	80 - 120	
	MSD	419468-01RE'	125.85	348.16	202.02	mg/L	0.2	110	10	80 - 120
QC Batch ID: BXH2454		Used client sample: Y - Description: ANC-MW3, 08/21/2014 18:26								
Bicarbonate Alkalinity as CaCO3	DUP	1419467-01	346.86	348.99		mg/L	0.6		10	
Carbonate Alkalinity as CaCO3	DUP	1419467-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419467-01	ND	ND		mg/L			10	
QC Batch ID: BXH2733		Used client sample: Y - Description: ANC-MW3, 08/21/2014 18:26								
Dissolved Calcium	DUP	1419467-01	120.47	122.04		mg/L	1.3		20	
	MS	1419467-01	120.47	135.98	10.204	mg/L		152	85 - 115	A03
	MSD	1419467-01	120.47	129.58	10.204	mg/L	4.8	89.2	20	85 - 115
Dissolved Magnesium	DUP	1419467-01	33.038	33.069		mg/L	0.1		20	
	MS	1419467-01	33.038	43.444	10.204	mg/L		102	85 - 115	
	MSD	1419467-01	33.038	43.741	10.204	mg/L	0.7	105	20	85 - 115
Dissolved Sodium	DUP	1419467-01	210.25	212.74		mg/L	1.2		20	
	MS	1419467-01	210.25	227.20	10.204	mg/L		166	85 - 115	A03
	MSD	1419467-01	210.25	218.40	10.204	mg/L	4.0	79.8	20	85 - 115
Dissolved Potassium	DUP	1419467-01	5.8236	5.8972		mg/L	1.3		20	
	MS	1419467-01	5.8236	16.554	10.204	mg/L		105	85 - 115	
	MSD	1419467-01	5.8236	16.636	10.204	mg/L	0.5	106	20	85 - 115
QC Batch ID: BXH2826		Used client sample: Y - Description: ANC-MW3, 08/21/2014 18:26								
Total Dissolved Solids @ 180 C	DUP	1419467-01	1070.0	1090.0		mg/L	1.9		10	
QC Batch ID: BXI0082		Used client sample: N								
Total Kjeldahl Nitrogen	DUP	1419450-01	0.44510	0.36730		mg/L	19.2		20	
	MS	1419450-01	0.44510	2.1986	2.0000	mg/L		87.7	90 - 110	Q03
	MSD	1419450-01	0.44510	2.2080	2.0000	mg/L	0.4	88.1	20	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI0084		Used client sample: N								
Total Phosphate	DUP	1419450-01	0.22996	0.21586		mg/L	6.3		20	
	MS	1419450-01	0.22996	3.1815	3.0660	mg/L		96.3		80 - 120
	MSD	1419450-01	0.22996	3.2554	3.0660	mg/L	2.3	98.7	20	80 - 120
QC Batch ID: BXI0166		Used client sample: Y - Description: ANC-MW7s, 08/21/2014 17:41								
Total Kjeldahl Nitrogen	DUP	1419467-03	ND	ND		mg/L			20	
	MS	1419467-03	ND	1.8747	2.0000	mg/L		93.7		90 - 110
	MSD	1419467-03	ND	1.9005	2.0000	mg/L	1.4	95.0	20	90 - 110
QC Batch ID: BXI0167		Used client sample: Y - Description: ANC-MW7s, 08/21/2014 17:41								
Total Phosphate	DUP	1419467-03	0.57675	0.54885		mg/L	5.0		20	
	MS	1419467-03	0.57675	3.7444	3.0660	mg/L		103		80 - 120
	MSD	1419467-03	0.57675	3.4740	3.0660	mg/L	7.5	94.5	20	80 - 120
QC Batch ID: BXI0448		Used client sample: N								
Ammonia as N	DUP	1419450-02	0.037800	0.037800		mg/L	0		10	J
	MS	1419450-02	0.037800	1.1728	1.1111	mg/L		102		90 - 110
	MSD	1419450-02	0.037800	1.1728	1.1111	mg/L	0	102	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Anchor J. Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/16/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Bettencourt & Marsdon Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419684
Invoice ID: B183389

Enclosed are the results of analyses for samples received by the laboratory on 8/25/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

Water Analysis (General Chemistry)

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Case Narratives

Case Narrative for Work Order 1419684

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:		Analysis Requested			
Expanded Constituent Suite		From Filtered Sample:	From Filtered Sample:	From Filtered Sample:	From Unfiltered Sample:
Project: Dairy Representative Monitoring Program		Na, K, Mg, Ca, Cl, SO ₄ (as SO ₄), Total Dissolved Solids	Ammonia-N, NO ₃ -N, NO ₂ -N	Na, K, Mg, Ca, Cl, SO ₄ (as SO ₄), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO ₄), Alkalinity (HCO ₃ , CO ₃ & OH) as CaCO ₃
Site: Bettencourt & Marson Dairy 30 Anneal					
Samplers Name: Del-Tech Stacy Young					
Global ID -					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt. Pe Unpreserved
1	BET-MW1s, BET-MW1d -1	8-25-14	14:47	GW	x
2	BET-MW2s, BET-MW2d -2		14:14		x
3	BET-MW3s, BET-MW3d -3		13:53		x
4	BET-MW4s, BET-MW4d -4		15:17		x
5	BET-MW5s, BET-MW5d -5		15:59		x
6	BET-MW6s, BET-MW6d -6		16:29		x
7	BET-MW7s, BET-MW7d -7		16:22		x
8	BET-MW8s, BET-MW8d -8		17:26		x
9	#5 Field Duplicate -9	VSJ	NA	VSJ	x
10					
11					
12					

Relinquished by: (Signature)	8-25-14 18:35	Received By: [Signature]	8-25-14 18:35
Relinquished by: (Signature)	8-25-14 19:30	Received By: [Signature]	8-25-14 19:30
Relinquished by: (Signature)		Received By: [Signature]	8-25-14 2220

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luddorff and Scalmanini Consulting Engineers via email: llavagnino@scea.com, rbyson@scea.com, pdhalival@scea.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

Lab- Fieder

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 2

Submission #: 1419684

SHIPPING INFORMATION Federal Express UPS Hand Delivery BC Lab Field Service Other

SHIPPING CONTAINER Ice Chest None Box Other

FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals Ice Chest Containers None Comments:

All samples received? All samples containers intact? Description(s) match COC?

COC Received YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Temperature: (A) 0.8 (C) 1.0

Date/Time: 8-25-14 2200 Analyst Init: JN

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various test types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: no train on samples Sample Numbering Completed By: Date/Time: IS:WPDocWordPerfect\LAB_DOCS\FORMS\SAMREC16



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 1419684

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8-25-14 2:00
 Temperature: (A) 0.9 °C / (C) 1.1 °C Analyst Init: JI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A,B		A,B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: no time on samples.
 Sample Numbering Completed By: JI Date/Time: 8/26/14 10:55 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419684-01	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 14:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419684-02	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 14:14
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419684-03	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 13:53
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419684-04	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 15:14
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419684-05	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 15:49
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419684-06	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 16:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419684-07	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 16:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419684-08	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 17:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW8s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419684-09	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	#5 Field Duplicate	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-01	Client Sample Name: BET-MW1d, 8/25/2014 2:42:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	47	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	13	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	29	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	6.5	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	59	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	42	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	27	mg/L	0.10	0.025	EPA-300.0	ND	S01,Z1	3
Sulfate	21	mg/L	1.0	0.18	EPA-300.0	0.22		3
Total Dissolved Solids @ 180 C	410	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.69	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.047	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.5	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:32	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 09:59	RLP	MET-1	1	BXH2743
3	EPA-300.0	08/27/14	08/27/14 14:01	OLH	IC5	1	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:36	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 18:52	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:43	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:00	JP1	SC-1	1	BXI0521

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-02	Client Sample Name: BET-MW2d, 8/25/2014 2:14:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	50	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	13	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	31	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	5.0	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	74	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	50	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	22	mg/L	0.10	0.025	EPA-300.0	ND	S01,Z1	3
Sulfate	23	mg/L	1.0	0.18	EPA-300.0	0.22		3
Total Dissolved Solids @ 180 C	440	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.84	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.3	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:44	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 10:05	RLP	MET-1	1	BXH2743
3	EPA-300.0	08/27/14	08/27/14 14:18	OLH	IC5	1	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:40	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 18:19	JP1	SC-1	1	BXI0738
7	EPA-353.2	08/26/14	08/26/14 14:43	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:02	JP1	SC-1	1	BXI0521

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-03	Client Sample Name: BET-MW3d, 8/25/2014 1:53:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	61	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	18	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	36	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	4.8	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	86	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	63	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	28	mg/L	0.10	0.025	EPA-300.0	ND	S01,Z1	3
Sulfate	27	mg/L	1.0	0.18	EPA-300.0	0.22		3
Total Dissolved Solids @ 180 C	540	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.0	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.93	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:46	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 10:11	RLP	MET-1	1	BXH2743
3	EPA-300.0	08/27/14	08/27/14 14:34	OLH	IC5	1	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:42	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 18:21	JP1	SC-1	1	BXI0738
7	EPA-353.2	08/26/14	08/26/14 14:43	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:03	JP1	SC-1	1	BXI0521

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Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-04	Client Sample Name: BET-MW4d, 8/25/2014 3:14:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	74	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	36	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	89	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	25	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	180	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	170	mg/L	1.0	0.13	EPA-300.0	0.35	A01	3
Nitrate as N	28	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	40	mg/L	2.0	0.36	EPA-300.0	0.45	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.1	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.099	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	2.7	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:56	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 10:17	RLP	MET-1	2	BXH2743
3	EPA-300.0	08/27/14	08/27/14 14:51	OLH	IC5	2	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	5	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:44	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 18:21	JP1	SC-1	1	BXI0738
7	EPA-353.2	08/26/14	08/26/14 14:43	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:05	JP1	SC-1	1	BXI0521

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Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-05		Client Sample Name: BET-MW5s, 8/25/2014 3:49:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	69	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	26	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	39	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	97	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	46	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	41	mg/L	0.10	0.025	EPA-300.0	ND	S01,Z1	3
Sulfate	39	mg/L	1.0	0.18	EPA-300.0	0.22		3
Total Dissolved Solids @ 180 C	640	mg/L	25	25	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.99	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.60	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:58	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 10:39	RLP	MET-1	1	BXH2744
3	EPA-300.0	08/27/14	08/27/14 15:08	OLH	IC5	1	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2.500	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:45	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 18:53	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:43	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:06	JP1	SC-1	1	BXI0521

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Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-06		Client Sample Name: BET-MW6s, 8/25/2014 4:59:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	39	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	11	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	28	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	15	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	67	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	30	mg/L	1.0	0.13	EPA-300.0	0.35	A01	3
Nitrate as N	24	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	16	mg/L	2.0	0.36	EPA-300.0	0.45	A01	3
Total Dissolved Solids @ 180 C	390	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.0	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	4.9	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 22:01	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 10:52	RML	MET-1	1	BXH2744
3	EPA-300.0	08/27/14	08/27/14 15:25	OLH	IC5	2	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:45	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 18:53	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:45	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:06	JP1	SC-1	1	BXI0521

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Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-07		Client Sample Name: BET-MW7s, 8/25/2014 4:22:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	32	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	9.8	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	28	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	8.4	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	44	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	30	mg/L	1.0	0.13	EPA-300.0	0.35	A01	3
Nitrate as N	23	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	19	mg/L	2.0	0.36	EPA-300.0	0.45	A01	3
Total Dissolved Solids @ 180 C	340	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.3	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.5	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 22:03	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 10:58	RML	MET-1	1	BXH2744
3	EPA-300.0	08/27/14	08/27/14 15:42	OLH	IC5	2	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:47	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 18:57	JP1	SC-1	1	BXI0741
7	EPA-353.2	08/26/14	08/26/14 14:45	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:30	JP1	SC-1	5	BXI0521

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Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-08	Client Sample Name: BET-MW8s, 8/25/2014 5:26:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	47	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	10	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	30	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	7.3	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	70	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	24	mg/L	1.0	0.13	EPA-300.0	0.35	A01	3
Nitrate as N	29	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	20	mg/L	2.0	0.36	EPA-300.0	0.45	A01	3
Total Dissolved Solids @ 180 C	420	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.1	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	9.0	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 22:06	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 11:03	RML	MET-1	1	BXH2744
3	EPA-300.0	08/27/14	08/27/14 15:59	OLH	IC5	2	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:47	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 19:02	JP1	SC-1	1	BXI0741
7	EPA-353.2	08/26/14	08/26/14 14:45	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:32	JP1	SC-1	5	BXI0521

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Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419684-09		Client Sample Name: #5 Field Duplicate, 8/25/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	46	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	9.9	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	30	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	6.9	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	67	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	23	mg/L	1.0	0.13	EPA-300.0	0.35	A01	3
Nitrate as N	29	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	20	mg/L	2.0	0.36	EPA-300.0	0.45	A01	3
Total Dissolved Solids @ 180 C	530	mg/L	20	20	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.1	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.5	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 22:08	JRG	PE-OP2	1	BXI0528
2	SM-2320B	08/28/14	08/28/14 11:09	RML	MET-1	1	BXH2744
3	EPA-300.0	08/27/14	08/27/14 16:16	OLH	IC5	2	BXH2871
4	SM-2540C	08/30/14	08/30/14 12:30	MSA	MANUAL	2	BXH2978
5	EPA-351.2	09/05/14	09/09/14 11:49	JP1	SC-1	1	BXI0520
6	EPA-350.1	09/08/14	09/09/14 19:02	JP1	SC-1	1	BXI0741
7	EPA-353.2	08/26/14	08/26/14 14:45	TDC	KONE-1	1	BXH2675
8	EPA-365.4	09/05/14	09/09/14 10:33	JP1	SC-1	5	BXI0521

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Del-Tech
645 North Yosemite Ave.
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Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2675						
Nitrite as N	BXH2675-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2743						
Bicarbonate Alkalinity as CaCO3	BXH2743-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2743-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2743-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2744						
Bicarbonate Alkalinity as CaCO3	BXH2744-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2744-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2744-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2871						
Chloride	BXH2871-BLK1	0.17600	mg/L	0.50	0.067	J
Nitrate as N	BXH2871-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2871-BLK1	0.22300	mg/L	1.0	0.18	J
QC Batch ID: BXH2978						
Total Dissolved Solids @ 180 C	BXH2978-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0520						
Total Kjeldahl Nitrogen	BXI0520-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0521						
Total Phosphate	BXI0521-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0528						
Dissolved Calcium	BXI0528-BLK1	0.029673	mg/L	0.10	0.016	J
Dissolved Magnesium	BXI0528-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0528-BLK1	0.059407	mg/L	0.50	0.051	J
Dissolved Potassium	BXI0528-BLK1	0.11967	mg/L	1.0	0.10	J
QC Batch ID: BXI0738						
Ammonia as N	BXI0738-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0740						
Ammonia as N	BXI0740-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0741						
Ammonia as N	BXI0741-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2675										
Nitrite as N	BXH2675-BS1	LCS	0.51642	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXH2871										
Chloride	BXH2871-BS1	LCS	53.586	50.000	mg/L	107		90 - 110		
Nitrate as N	BXH2871-BS1	LCS	5.2430	5.0000	mg/L	105		90 - 110		
Sulfate	BXH2871-BS1	LCS	105.73	100.00	mg/L	106		90 - 110		
QC Batch ID: BXH2978										
Total Dissolved Solids @ 180 C	BXH2978-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXI0520										
Total Kjeldahl Nitrogen	BXI0520-BS1	LCS	1.9789	2.0000	mg/L	98.9		90 - 110		
QC Batch ID: BXI0521										
Total Phosphate	BXI0521-BS1	LCS	2.8690	3.0660	mg/L	93.6		85 - 115		
QC Batch ID: BXI0528										
Dissolved Calcium	BXI0528-BS1	LCS	10.216	10.204	mg/L	100		85 - 115		
Dissolved Magnesium	BXI0528-BS1	LCS	10.746	10.204	mg/L	105		85 - 115		
Dissolved Sodium	BXI0528-BS1	LCS	10.418	10.204	mg/L	102		85 - 115		
Dissolved Potassium	BXI0528-BS1	LCS	9.8797	10.204	mg/L	96.8		85 - 115		
QC Batch ID: BXI0738										
Ammonia as N	BXI0738-BS1	LCS	0.95840	1.0000	mg/L	95.8		90 - 110		
QC Batch ID: BXI0740										
Ammonia as N	BXI0740-BS1	LCS	0.97170	1.0000	mg/L	97.2		90 - 110		
QC Batch ID: BXI0741										
Ammonia as N	BXI0741-BS1	LCS	0.96280	1.0000	mg/L	96.3		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2675		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Nitrite as N	DUP	1419684-01	ND	ND		mg/L			10	
	MS	1419684-01	ND	0.55009	0.52632	mg/L		105		90 - 110
	MSD	1419684-01	ND	0.54919	0.52632	mg/L	0.2	104	10	90 - 110
QC Batch ID: BXH2743		Used client sample: Y - Description: CAE-MW1d, 08/25/2014 11:07								
Bicarbonate Alkalinity as CaCO3	DUP	1419683-01	1282.2	1292.2		mg/L	0.8		10	
Carbonate Alkalinity as CaCO3	DUP	1419683-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419683-01	ND	ND		mg/L			10	
QC Batch ID: BXH2744		Used client sample: Y - Description: BET-MW5s, 08/25/2014 15:49								
Bicarbonate Alkalinity as CaCO3	DUP	1419684-05	97.210	97.820		mg/L	0.6		10	
Carbonate Alkalinity as CaCO3	DUP	1419684-05	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419684-05	ND	ND		mg/L			10	
QC Batch ID: BXH2871		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Chloride	DUP	419684-01RE'	43.538	43.458		mg/L	0.2		10	
	MS	419684-01RE'	43.538	155.83	101.01	mg/L		111		80 - 120
	MSD	419684-01RE'	43.538	156.18	101.01	mg/L	0.2	112	10	80 - 120
Nitrate as N	DUP	419684-01RE'	31.018	30.970		mg/L	0.2		10	
	MS	419684-01RE'	31.018	40.810	10.101	mg/L		96.9		80 - 120
	MSD	419684-01RE'	31.018	40.788	10.101	mg/L	0.1	96.7	10	80 - 120
Sulfate	DUP	419684-01RE'	22.512	22.608		mg/L	0.4		10	
	MS	419684-01RE'	22.512	241.39	202.02	mg/L		108		80 - 120
	MSD	419684-01RE'	22.512	241.35	202.02	mg/L	0.0	108	10	80 - 120
QC Batch ID: BXH2978		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Total Dissolved Solids @ 180 C	DUP	1419684-01	410.00	392.00		mg/L	4.5		10	
QC Batch ID: BXI0520		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Total Kjeldahl Nitrogen	DUP	1419684-01	0.69300	0.75810		mg/L	9.0		20	
	MS	1419684-01	0.69300	2.6721	2.0000	mg/L		99.0		90 - 110
	MSD	1419684-01	0.69300	2.6721	2.0000	mg/L	0	99.0	20	90 - 110
QC Batch ID: BXI0521		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Total Phosphate	DUP	1419684-01	1.4926	1.4074		mg/L	5.9		20	
	MS	1419684-01	1.4926	4.6272	3.0660	mg/L		102		80 - 120
	MSD	1419684-01	1.4926	4.3742	3.0660	mg/L	5.6	94.0	20	80 - 120
QC Batch ID: BXI0528		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Dissolved Calcium	DUP	1419684-01	46.802	47.586		mg/L	1.7		20	
	MS	1419684-01	46.802	56.333	10.204	mg/L		93.4		85 - 115
	MSD	1419684-01	46.802	56.158	10.204	mg/L	0.3	91.7	20	85 - 115

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI0528		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Dissolved Magnesium	DUP	1419684-01	13.042	13.230		mg/L	1.4		20	
	MS	1419684-01	13.042	23.363	10.204	mg/L		101		85 - 115
	MSD	1419684-01	13.042	23.209	10.204	mg/L	0.7	99.6	20	85 - 115
Dissolved Sodium	DUP	1419684-01	29.118	29.535		mg/L	1.4		20	
	MS	1419684-01	29.118	39.054	10.204	mg/L		97.4		85 - 115
	MSD	1419684-01	29.118	38.956	10.204	mg/L	0.3	96.4	20	85 - 115
Dissolved Potassium	DUP	1419684-01	6.5430	6.6218		mg/L	1.2		20	
	MS	1419684-01	6.5430	16.678	10.204	mg/L		99.3		85 - 115
	MSD	1419684-01	6.5430	16.563	10.204	mg/L	0.7	98.2	20	85 - 115
QC Batch ID: BXI0738		Used client sample: N								
Ammonia as N	DUP	1419621-02	ND	ND		mg/L			10	
	MS	1419621-02	ND	1.0649	1.1111	mg/L		95.8		90 - 110
	MSD	1419621-02	ND	1.0661	1.1111	mg/L	0.1	96.0	10	90 - 110
QC Batch ID: BXI0740		Used client sample: Y - Description: CAE-MW3d, 08/25/2014 10:04								
Ammonia as N	DUP	1419683-03	0.069500	0.058300		mg/L	17.5		10	J,A02
	MS	1419683-03	0.069500	1.1256	1.1111	mg/L		95.0		90 - 110
	MSD	1419683-03	0.069500	1.1193	1.1111	mg/L	0.6	94.5	10	90 - 110
QC Batch ID: BXI0741		Used client sample: Y - Description: BET-MW7s, 08/25/2014 16:22								
Ammonia as N	DUP	1419684-07	ND	ND		mg/L			10	
	MS	1419684-07	ND	1.1169	1.1111	mg/L		101		90 - 110
	MSD	1419684-07	ND	1.0983	1.1111	mg/L	1.7	98.8	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Bettencourt & Marsdon Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- S01 Sample result is not within the quantitation range of the method.
- Z1 Sample was re-analyzed past hold time to confirm over calibration result , recheck result was consistent.



Date of Report: 09/05/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Durrer Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419051
Invoice ID: B182470

Enclosed are the results of analyses for samples received by the laboratory on 8/18/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419051

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19051

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Name: Del-Tech
Address: 645 N Yosemite
City: Oakdale
State: 95361
Atn: Don Light
Project: Dairy Representative Monitoring Program
Site: Durrer Dairy 30 Annual
Samplers Name: Del Tech / Stacy Young
Global ID -

Analysis Requested

From Filtered Sample:
Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Filtered Sample:
Ammonia-N, NO3-N,
NO2-N

From Unfiltered Sample:
Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Cr Pb Unpreserved	Analysis Requested		
						From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
-1		8/18/14 15:39	15:39	GW	x	x	x	x
-2		14:04			x	x	x	x
-3		14:44			x	x	x	x
-4		15:15			x	x	x	x
-5		13:19			x	x	x	x
-6		13:53			x	x	x	x
-7		16:25			x	x	x	x
-8		19:20			x	x	x	x
-9		14:24			x	x	x	x
10								
11								
12								
13								

Relinquished by: (Signature) [Signature] Date & Time 8-18-14 17:30

Relinquished by: (Signature) [Signature] Date & Time 8-18-14 18:30

Relinquished by: (Signature) [Signature] Date & Time 8-18-14 18:30

Received By: [Signature] Date & Time 8-18-14 17:30

Received By: [Signature] Date & Time 8-18-14 18:30

Received By: [Signature] Date & Time 8-18-14 18:30

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luthdorff and Scalmani Consulting Engineers via email: llavagnino@lsc.com rbyson@lsc.com pdhalval@lsc.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-19051

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/18/14 2320
 Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init: MW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	17	18	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	AB	AB	AB	AB						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHIP/DISTRIBUTION TIME
 0° NO (NO) OF SS
 DC CL BCD MB/S COT
 CHK BY DISTRIBUTION
 MW
 SIBOUT

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/18/14 @ 2355 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-19051

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/18/14 2320

Temperature: (A) 0.1 °C (C) 0.3 °C Analyst Init: MWI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			AB	AB	AB	AB				AB
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: MWI Date/Time: 8/18/14 @ 2355 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419051-01	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 15:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419051-02	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 16:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419051-03	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 14:49
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419051-04	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 15:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419051-05	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 13:19
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1419051-06	COC Number: ---	Receive Date: 08/18/2014 23:20
	Project Number: ---	Sampling Date: 08/18/2014 13:53
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUR-MW7	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1419051-07	COC Number: ---	Receive Date: 08/18/2014 23:20
	Project Number: ---	Sampling Date: 08/18/2014 16:25
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUR-MW8	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1419051-08	COC Number: ---	Receive Date: 08/18/2014 23:20
	Project Number: ---	Sampling Date: 08/18/2014 17:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUR-MW9	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1419051-09	COC Number: ---	Receive Date: 08/18/2014 23:20
	Project Number: ---	Sampling Date: 08/18/2014 14:24
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUR-MW10s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-01	Client Sample Name: DUR-MW1, 8/18/2014 3:39:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	0.021		1
Dissolved Magnesium	100	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	140	mg/L	0.50	0.051	EPA-200.7	0.051		1
Dissolved Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	0.12		2
Bicarbonate Alkalinity as CaCO3	490	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	110	mg/L	2.5	0.34	EPA-300.0	0.68	A01	4
Nitrate as N	82	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	88	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.22	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	4.1	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:02	JRG	PE-OP1	1	BXH2413
2	EPA-200.7	08/21/14	08/28/14 18:40	JRG	PE-OP1	1	BXH2413
3	SM-2320B	08/21/14	08/21/14 16:53	RML	MET-1	2	BXH2004
4	EPA-300.0	08/19/14	08/20/14 16:06	OLH	IC5	5	BXH1857
5	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	5	BXH2191
6	EPA-351.2	08/25/14	08/27/14 10:13	JP1	SC-1	1	BXH2300
7	EPA-350.1	08/26/14	08/26/14 14:01	JP1	SC-1	1	BXH2502
8	EPA-353.2	08/19/14	08/19/14 09:20	TDC	KONE-1	1	BXH1730
9	EPA-365.4	08/25/14	08/27/14 08:37	JP1	SC-1	1	BXH2301

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Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-02	Client Sample Name: DUR-MW2, 8/18/2014 4:04:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	230	mg/L	0.50	0.080	EPA-200.7	0.10	A10	1
Dissolved Magnesium	180	mg/L	0.25	0.095	EPA-200.7	ND	A10	1
Dissolved Sodium	230	mg/L	2.5	0.26	EPA-200.7	0.26	A10	1
Dissolved Potassium	290	mg/L	5.0	0.50	EPA-200.7	0.61		2
Bicarbonate Alkalinity as CaCO3	2300	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	250	mg/L	2.5	0.34	EPA-300.0	0.68	A01	4
Nitrate as N	5.9	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	46	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	2200	mg/L	200	200	SM-2540C	ND		5
Total Kjeldahl Nitrogen	190	mg/L	10	2.6	EPA-351.2	ND	A01	6
Ammonia as N	170	mg/L	10	3.3	EPA-350.1	ND	A01	7
Nitrite as N	0.020	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	7.7	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:14	JRG	PE-OP1	5	BXH2413
2	EPA-200.7	08/21/14	08/28/14 18:52	JRG	PE-OP1	5	BXH2413
3	SM-2320B	08/21/14	08/21/14 17:00	RML	MET-1	2	BXH2004
4	EPA-300.0	08/19/14	08/20/14 02:39	OLH	IC5	5	BXH1857
5	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	20	BXH2191
6	EPA-351.2	08/25/14	08/27/14 12:17	JP1	SC-1	50	BXH2300
7	EPA-350.1	08/26/14	08/26/14 14:51	JP1	SC-1	100	BXH2502
8	EPA-353.2	08/19/14	08/19/14 09:20	TDC	KONE-1	1	BXH1730
9	EPA-365.4	08/25/14	08/27/14 08:38	JP1	SC-1	5	BXH2301

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Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-03		Client Sample Name: DUR-MW3, 8/18/2014 2:49:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	200	mg/L	0.10	0.016	EPA-200.7	0.021		1
Dissolved Magnesium	98	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	380	mg/L	0.50	0.051	EPA-200.7	0.051		1
Dissolved Potassium	6.5	mg/L	1.0	0.10	EPA-200.7	0.12		2
Bicarbonate Alkalinity as CaCO3	900	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	260	mg/L	2.5	0.34	EPA-300.0	0.68	A01	4
Nitrate as N	96	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	170	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.095	mg/L	0.20	0.053	EPA-351.2	ND	J	6
Ammonia as N	0.20	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.25	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	3.3	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:16	JRG	PE-OP1	1	BXH2413
2	EPA-200.7	08/21/14	08/28/14 18:55	JRG	PE-OP1	1	BXH2413
3	SM-2320B	08/21/14	08/21/14 17:11	RML	MET-1	2	BXH2004
4	EPA-300.0	08/19/14	08/20/14 02:54	OLH	IC5	5	BXH1857
5	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	10	BXH2191
6	EPA-351.2	08/25/14	08/27/14 10:16	JP1	SC-1	1	BXH2300
7	EPA-350.1	08/26/14	08/26/14 14:06	JP1	SC-1	1	BXH2502
8	EPA-353.2	08/19/14	08/19/14 09:20	TDC	KONE-1	1	BXH1730
9	EPA-365.4	08/25/14	08/27/14 08:39	JP1	SC-1	1	BXH2301

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Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-04	Client Sample Name: DUR-MW4, 8/18/2014 3:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	320	mg/L	0.20	0.032	EPA-200.7	0.042	A10	1
Dissolved Magnesium	220	mg/L	0.10	0.038	EPA-200.7	ND	A10	1
Dissolved Sodium	260	mg/L	1.0	0.10	EPA-200.7	0.10	A10	1
Dissolved Potassium	240	mg/L	2.0	0.20	EPA-200.7	0.24		2
Bicarbonate Alkalinity as CaCO3	2100	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	340	mg/L	2.5	0.34	EPA-300.0	0.68	A01	4
Nitrate as N	45	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	100	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	2400	mg/L	200	200	SM-2540C	ND		5
Total Kjeldahl Nitrogen	74	mg/L	5.0	1.3	EPA-351.2	ND	A01	6
Ammonia as N	61	mg/L	5.0	1.6	EPA-350.1	ND	A01	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	6.3	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:26	JRG	PE-OP1	2	BXH2413
2	EPA-200.7	08/21/14	08/28/14 19:02	JRG	PE-OP1	2	BXH2413
3	SM-2320B	08/21/14	08/21/14 17:35	RML	MET-1	2	BXH2005
4	EPA-300.0	08/19/14	08/20/14 03:10	OLH	IC5	5	BXH1857
5	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	20	BXH2191
6	EPA-351.2	08/25/14	08/27/14 11:51	JP1	SC-1	25	BXH2300
7	EPA-350.1	08/26/14	08/26/14 14:39	JP1	SC-1	50	BXH2502
8	EPA-353.2	08/19/14	08/19/14 09:20	TDC	KONE-1	1	BXH1730
9	EPA-365.4	08/25/14	08/27/14 08:40	JP1	SC-1	5	BXH2301

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Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-05		Client Sample Name: DUR-MW6, 8/18/2014 1:19:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	0.021		1
Dissolved Magnesium	72	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	97	mg/L	0.50	0.051	EPA-200.7	0.051		1
Dissolved Potassium	3.7	mg/L	1.0	0.10	EPA-200.7	0.12		2
Bicarbonate Alkalinity as CaCO3	500	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	65	mg/L	1.0	0.13	EPA-300.0	0.27	A01	4
Nitrate as N	52	mg/L	0.20	0.050	EPA-300.0	ND	A01,S01,Z1	4
Sulfate	68	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.74	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.11	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	1.3	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:29	JRG	PE-OP1	1	BXH2413
2	EPA-200.7	08/21/14	08/28/14 19:04	JRG	PE-OP1	1	BXH2413
3	SM-2320B	08/21/14	08/21/14 17:55	RML	MET-1	2	BXH2005
4	EPA-300.0	08/19/14	08/20/14 03:26	OLH	IC5	2	BXH1857
5	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	5	BXH2191
6	EPA-351.2	08/25/14	08/27/14 10:18	JP1	SC-1	1	BXH2300
7	EPA-350.1	08/26/14	08/26/14 14:10	JP1	SC-1	1	BXH2502
8	EPA-353.2	08/19/14	08/19/14 09:20	TDC	KONE-1	1	BXH1730
9	EPA-365.4	08/25/14	08/27/14 08:41	JP1	SC-1	1	BXH2301

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Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-06		Client Sample Name: DUR-MW7, 8/18/2014 1:53:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	260	mg/L	0.10	0.016	EPA-200.7	0.021		1
Dissolved Magnesium	150	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	170	mg/L	0.50	0.051	EPA-200.7	0.051		1
Dissolved Potassium	120	mg/L	1.0	0.10	EPA-200.7	0.12		2
Bicarbonate Alkalinity as CaCO3	840	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	180	mg/L	2.5	0.34	EPA-300.0	0.68	A01	4
Nitrate as N	120	mg/L	0.50	0.12	EPA-300.0	ND	A01,S01,Z1	4
Sulfate	220	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	2200	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	4.4	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	1.6	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.52	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	28	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:31	JRG	PE-OP1	1	BXH2413
2	EPA-200.7	08/21/14	08/28/14 19:07	JRG	PE-OP1	1	BXH2413
3	SM-2320B	08/21/14	08/21/14 18:01	RML	MET-1	2	BXH2005
4	EPA-300.0	08/19/14	08/20/14 03:42	OLH	IC5	5	BXH1857
5	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	10	BXH2191
6	EPA-351.2	08/25/14	08/27/14 10:19	JP1	SC-1	1	BXH2300
7	EPA-350.1	08/26/14	08/26/14 14:10	JP1	SC-1	1	BXH2502
8	EPA-353.2	08/19/14	08/19/14 09:22	TDC	KONE-1	1	BXH1730
9	EPA-365.4	08/25/14	08/27/14 09:05	JP1	SC-1	5	BXH2301

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Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-07		Client Sample Name: DUR-MW8, 8/18/2014 4:25:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	78	mg/L	0.10	0.016	EPA-200.7	0.021		1
Dissolved Magnesium	30	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	31	mg/L	0.50	0.051	EPA-200.7	0.051		1
Dissolved Potassium	22	mg/L	1.0	0.10	EPA-200.7	0.12		2
Bicarbonate Alkalinity as CaCO3	300	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	21	mg/L	0.50	0.067	EPA-300.0	0.14		4
Nitrate as N	11	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	26	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	500	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	1.6	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	1.0	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	7.3	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:33	JRG	PE-OP1	1	BXH2413
2	EPA-200.7	08/21/14	08/28/14 19:11	JRG	PE-OP1	1	BXH2413
3	SM-2320B	08/21/14	08/21/14 18:09	RML	MET-1	1	BXH2005
4	EPA-300.0	08/19/14	08/20/14 04:30	OLH	IC5	1	BXH1857
5	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	3.333	BXH2191
6	EPA-351.2	08/25/14	08/27/14 10:20	JP1	SC-1	1	BXH2300
7	EPA-350.1	08/26/14	08/26/14 14:11	JP1	SC-1	1	BXH2502
8	EPA-353.2	08/19/14	08/19/14 09:22	TDC	KONE-1	1	BXH1730
9	EPA-365.4	08/25/14	08/27/14 09:06	JP1	SC-1	5	BXH2301

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-08		Client Sample Name: DUR-MW9, 8/18/2014 5:20:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	89	mg/L	0.10	0.016	EPA-200.7	0.021		1
Dissolved Magnesium	35	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	56	mg/L	0.50	0.051	EPA-200.7	0.051		1
Dissolved Potassium	5.1	mg/L	1.0	0.10	EPA-200.7	0.12		2
Bicarbonate Alkalinity as CaCO3	280	mg/L	4.1	4.1	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	21	mg/L	0.50	0.067	EPA-300.0	0.14		4
Nitrate as N	27	mg/L	0.50	0.12	EPA-300.0	ND	A01	5
Sulfate	82	mg/L	1.0	0.18	EPA-300.0	ND		4
Total Dissolved Solids @ 180 C	720	mg/L	33	33	SM-2540C	ND		6
Total Kjeldahl Nitrogen	0.62	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		8
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	2.2	mg/L	0.15	0.092	EPA-365.4	ND		10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:36	JRG	PE-OP1	1	BXH2413
2	EPA-200.7	08/21/14	08/28/14 19:14	JRG	PE-OP1	1	BXH2413
3	SM-2320B	08/21/14	08/21/14 18:16	RML	MET-1	1	BXH2005
4	EPA-300.0	08/19/14	08/20/14 04:46	OLH	IC5	1	BXH1857
5	EPA-300.0	08/19/14	08/20/14 16:54	OLH	IC5	5	BXH1857
6	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	3.333	BXH2191
7	EPA-351.2	08/25/14	08/27/14 10:09	JP1	SC-1	1	BXH2300
8	EPA-350.1	08/26/14	08/26/14 14:12	JP1	SC-1	1	BXH2502
9	EPA-353.2	08/19/14	08/19/14 09:22	TDC	KONE-1	1	BXH1730
10	EPA-365.4	08/25/14	08/27/14 08:35	JP1	SC-1	1	BXH2301

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419051-09	Client Sample Name: DUR-MW10s, 8/18/2014 2:24:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	270	mg/L	1.0	0.16	EPA-200.7	0.21	A10	1
Dissolved Magnesium	150	mg/L	0.50	0.19	EPA-200.7	ND	A10	1
Dissolved Sodium	510	mg/L	5.0	0.51	EPA-200.7	0.51	A10	1
Dissolved Potassium	510	mg/L	10	1.0	EPA-200.7	1.2		2
Bicarbonate Alkalinity as CaCO3	1600	mg/L	8.2	8.2	SM-2320B	ND		3
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	680	mg/L	2.5	0.34	EPA-300.0	0.68	A01	4
Nitrate as N	1.0	mg/L	1.0	0.25	EPA-300.0	ND	A10	5
Sulfate	540	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	3800	mg/L	200	200	SM-2540C	ND		6
Total Kjeldahl Nitrogen	26	mg/L	2.5	0.66	EPA-351.2	ND	A01	7
Ammonia as N	2.8	mg/L	2.0	0.66	EPA-350.1	ND	A01	8
Nitrite as N	0.044	mg/L	0.050	0.010	EPA-353.2	ND	J	9
Total Phosphate	15	mg/L	0.38	0.23	EPA-365.4	ND	A01	10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 02:38	JRG	PE-OP1	10	BXH2413
2	EPA-200.7	08/21/14	08/28/14 19:16	JRG	PE-OP1	10	BXH2413
3	SM-2320B	08/21/14	08/21/14 18:23	RML	MET-1	2	BXH2005
4	EPA-300.0	08/19/14	08/20/14 21:24	OLH	IC5	5	BXH1857
5	EPA-300.0	08/19/14	08/20/14 05:02	OLH	IC5	10	BXH1857
6	SM-2540C	08/22/14	08/22/14 13:00	CAD	MANUAL	20	BXH2191
7	EPA-351.2	08/25/14	08/27/14 11:53	JP1	SC-1	12.500	BXH2300
8	EPA-350.1	08/26/14	08/26/14 14:13	JP1	SC-1	20	BXH2502
9	EPA-353.2	08/19/14	08/19/14 09:22	TDC	KONE-1	1	BXH1730
10	EPA-365.4	08/25/14	08/27/14 08:43	JP1	SC-1	2.500	BXH2301

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1730						
Nitrite as N	BXH1730-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1857						
Chloride	BXH1857-BLK1	0.13700	mg/L	0.50	0.067	J
Nitrate as N	BXH1857-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1857-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2004						
Bicarbonate Alkalinity as CaCO3	BXH2004-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2004-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2004-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2005						
Bicarbonate Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2191						
Total Dissolved Solids @ 180 C	BXH2191-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2300						
Total Kjeldahl Nitrogen	BXH2300-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2301						
Total Phosphate	BXH2301-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2413						
Dissolved Calcium	BXH2413-BLK1	0.020881	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH2413-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2413-BLK1	0.051083	mg/L	0.50	0.051	J
Dissolved Potassium	BXH2413-BLK2	0.12196	mg/L	1.0	0.10	J
QC Batch ID: BXH2502						
Ammonia as N	BXH2502-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1730										
Nitrite as N	BXH1730-BS1	LCS	0.49033	0.50000	mg/L	98.1		90 - 110		
QC Batch ID: BXH1857										
Chloride	BXH1857-BS1	LCS	52.651	50.000	mg/L	105		90 - 110		
Nitrate as N	BXH1857-BS1	LCS	5.2610	5.0000	mg/L	105		90 - 110		
Sulfate	BXH1857-BS1	LCS	104.89	100.00	mg/L	105		90 - 110		
QC Batch ID: BXH2191										
Total Dissolved Solids @ 180 C	BXH2191-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXH2300										
Total Kjeldahl Nitrogen	BXH2300-BS1	LCS	1.9894	2.0000	mg/L	99.5		90 - 110		
QC Batch ID: BXH2301										
Total Phosphate	BXH2301-BS1	LCS	3.1591	3.0660	mg/L	103		85 - 115		
QC Batch ID: BXH2413										
Dissolved Calcium	BXH2413-BS1	LCS	9.8655	10.000	mg/L	98.7		85 - 115		
Dissolved Magnesium	BXH2413-BS1	LCS	10.229	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2413-BS1	LCS	9.5931	10.000	mg/L	95.9		85 - 115		
Dissolved Potassium	BXH2413-BS2	LCS	9.7143	10.000	mg/L	97.1		85 - 115		
QC Batch ID: BXH2502										
Ammonia as N	BXH2502-BS1	LCS	1.0284	1.0000	mg/L	103		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes multiple QC Batch sections (e.g., BXH1730, BXH1857, BXH2004, BXH2005, BXH2191, BXH2300, BXH2301, BXH2413) with detailed analytical data for various constituents like Nitrite as N, Chloride, Nitrate as N, Sulfate, Bicarbonate Alkalinity, Carbonate Alkalinity, Hydroxide Alkalinity, Total Dissolved Solids, Total Kjeldahl Nitrogen, Total Phosphate, and Dissolved Calcium.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2413		Used client sample: Y - Description: DUR-MW1, 08/18/2014 15:39								
Dissolved Magnesium	DUP	1419051-01	101.33	99.826		mg/L	1.5		20	
	MS	1419051-01	101.33	123.61	10.204	mg/L		218		85 - 115 A03
	MSD	1419051-01	101.33	109.07	10.204	mg/L	12.5	75.8	20	85 - 115 A03
Dissolved Sodium	DUP	1419051-01	137.09	138.78		mg/L	1.2		20	
	MS	1419051-01	137.09	164.63	10.204	mg/L		270		85 - 115 A03
	MSD	1419051-01	137.09	141.54	10.204	mg/L	15.1	43.6	20	85 - 115 A03
Dissolved Potassium	DUP	1419051-01	2.6681	2.6432		mg/L	0.9		20	
	MS	1419051-01	2.6681	13.735	10.204	mg/L		108		85 - 115
	MSD	1419051-01	2.6681	13.501	10.204	mg/L	1.7	106	20	85 - 115
QC Batch ID: BXH2502		Used client sample: Y - Description: DUR-MW1, 08/18/2014 15:39								
Ammonia as N	DUP	1419051-01	ND	ND		mg/L			10	
	MS	1419051-01	ND	1.1724	1.1111	mg/L		106		90 - 110
	MSD	1419051-01	ND	1.1616	1.1111	mg/L	0.9	105	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 17:35
Project: Dairy Rep MP - Expanded Suite
Project Number: Durrer Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.
- S01 Sample result is not within the quantitation range of the method.
- Z1 Sample was re-analyzed past hold time to confirm over calibration result , recheck result was consistent.



Date of Report: 09/11/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Frank J. Gomes Dairy #1
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419540
Invoice ID: B182944

Enclosed are the results of analyses for samples received by the laboratory on 8/22/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419540

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19540

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Name: Del-Tech
Address: 645 N Yosemite
City: Oakdale
State: 95361
Attn: Don Light
Project: Dairy Representative Monitoring Program
Site: Frank J. Gomes Dairy #1 Annual
Samplers Name: Del-Tech / Stey Jang
Global ID:

Analysis Requested

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1 Pe Unpreserved	From Filtered Sample:			From Unfiltered Sample:		
						Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	Ammonia-N, NO3-N, NO2-N	Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
- 1	FG1-MW1d	8-22-14	13:39	GW	x	x	x	x	x	x	x
- 2	FG1-MW2d		14:37		x	x	x	x	x	x	x
- 3	FG1-MW3d		14:06		x	x	x	x	x	x	x
- 4	FG1-MW4s		14:59		x	x	x	x	x	x	x
- 5	FG1-MW5d		16:15		x	x	x	x	x	x	x
- 6	FG1-MW6d		15:45		x	x	x	x	x	x	x
- 7	FG1-MW7s		15:17		x	x	x	x	x	x	x
- 8	FG1-MW8d		16:59		x	x	x	x	x	x	x
- 9	FG1-MW9s		13:12		x	x	x	x	x	x	x
10	Field Duplicate				x	x	x	x	x	x	x
11											
12											
13											

Comments
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luhdorff and Scalmani Consulting Engineers via email: llavagnine@lscce.com, rbyson@lscce.com, puhallival@lscce.com
 4) Send bill to Del-Tech, only.

Relinquished by: (Signature) SAG 8/22/14 / 17:13
 Relinquished by: (Signature) SAG 8/22/14 / 17:13
 Relinquished by: (Signature) SAG 8/22/14 / 17:13
 Relinquished by: (Signature) SAG 8/22/14 / 17:13

Received By: Date & Time SAG 8/22/14 17:13
 Received By: Date & Time SAG 8/22/14 17:13
 Received By: Date & Time SAG 8/22/14 21:30

(A)= Analysis (C)= Container (P)= Preservative

Lab Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 2

Submission #: 14-19540

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8-22-14 2:30
 Temperature: (A) 0.6 °C / (C) 0.8 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB	AB	AB						AB
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME 1/2
 DO NOT HOLD COOLERS
 DO NOT HOLD MEANS COOLERS

CHICKLEY DISTRIBUTION
 [Signature]
 SUB-CUT

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 8/22/14 2:30 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16]
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-19540

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8-22-14 2:50
 Temperature: (A) 19.4 °C (C) 10.6 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL					AB	AB	AB	AB		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: [Signature] Date/Time: 8/22/14 2:50 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16]

A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419540-01	COC Number:	---	Receive Date:	08/22/2014 21:30
	Project Number:	---	Sampling Date:	08/22/2014 13:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419540-02	COC Number:	---	Receive Date:	08/22/2014 21:30
	Project Number:	---	Sampling Date:	08/22/2014 14:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419540-03	COC Number:	---	Receive Date:	08/22/2014 21:30
	Project Number:	---	Sampling Date:	08/22/2014 14:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419540-04	COC Number:	---	Receive Date:	08/22/2014 21:30
	Project Number:	---	Sampling Date:	08/22/2014 14:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419540-05	COC Number:	---	Receive Date:	08/22/2014 21:30
	Project Number:	---	Sampling Date:	08/22/2014 16:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1419540-06	COC Number: ---	Receive Date: 08/22/2014 21:30
	Project Number: ---	Sampling Date: 08/22/2014 15:45
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW6d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1419540-07	COC Number: ---	Receive Date: 08/22/2014 21:30
	Project Number: ---	Sampling Date: 08/22/2014 15:17
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW7s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1419540-08	COC Number: ---	Receive Date: 08/22/2014 21:30
	Project Number: ---	Sampling Date: 08/22/2014 16:59
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW8d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

1419540-09	COC Number: ---	Receive Date: 08/22/2014 21:30
	Project Number: ---	Sampling Date: 08/22/2014 13:12
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW9s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified

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Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-01		Client Sample Name: FG1-MW1d, 8/22/2014 1:39:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	99	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	46	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	160	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	5.8	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	450	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	130	mg/L	0.50	0.067	EPA-300.0	0.42		3
Nitrate as N	0.68	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	140	mg/L	1.0	0.18	EPA-300.0	0.27		3
Total Dissolved Solids @ 180 C	840	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.42	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.27	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 22:47	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 13:31	RML	MET-1	2	BXH2611
3	EPA-300.0	08/23/14	08/24/14 00:54	OLH	IC5	1	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	5	BXH2924
5	EPA-351.2	09/03/14	09/06/14 16:23	JP1	SC-1	1	BXI0168
6	EPA-350.1	09/08/14	09/08/14 14:14	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:32	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 14:50	JP1	SC-1	1	BXI0169

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Del-Tech
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Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-02		Client Sample Name: FG1-MW2d, 8/22/2014 2:32:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	79	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	32	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	76	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	9.9	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	130	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	92	mg/L	2.5	0.34	EPA-300.0	2.1	A01	3
Nitrate as N	47	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	68	mg/L	5.0	0.90	EPA-300.0	1.4	A01	3
Total Dissolved Solids @ 180 C	810	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.77	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.059	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.022	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	9.5	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:00	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 13:45	RML	MET-1	2	BXH2611
3	EPA-300.0	08/23/14	08/24/14 02:52	OLH	IC5	5	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	3.333	BXH2924
5	EPA-351.2	09/03/14	09/06/14 16:20	JP1	SC-1	1	BXI0168
6	EPA-350.1	09/08/14	09/08/14 14:17	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:32	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 15:04	JP1	SC-1	5	BXI0169

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Del-Tech
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Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-03		Client Sample Name: FG1-MW3d, 8/22/2014 2:06:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	68	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	230	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	9.0	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	740	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	210	mg/L	1.0	0.13	EPA-300.0	0.83	A01	3
Nitrate as N	15	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	71	mg/L	2.0	0.36	EPA-300.0	0.54	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.52	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.097	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.33	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:03	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 13:51	RML	MET-1	2	BXH2611
3	EPA-300.0	08/23/14	08/24/14 03:09	OLH	IC5	2	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	10	BXH2924
5	EPA-351.2	09/03/14	09/06/14 16:24	JP1	SC-1	1	BXI0168
6	EPA-350.1	09/08/14	09/08/14 14:19	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:32	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 14:50	JP1	SC-1	1	BXI0169

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Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-04		Client Sample Name: FG1-MW4s, 8/22/2014 2:55:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	63	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	23	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	69	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	20	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	98	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	110	mg/L	1.0	0.13	EPA-300.0	0.83	A01	3
Nitrate as N	36	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	42	mg/L	2.0	0.36	EPA-300.0	0.54	A01	3
Total Dissolved Solids @ 180 C	680	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.5	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.17	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.1	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:11	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 14:01	RML	MET-1	1	BXH2611
3	EPA-300.0	08/23/14	08/24/14 09:40	OLH	IC5	2	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	3.333	BXH2924
5	EPA-351.2	09/03/14	09/06/14 16:25	JP1	SC-1	1	BXI0168
6	EPA-350.1	09/08/14	09/08/14 14:21	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:38	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 15:09	JP1	SC-1	5	BXI0169

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-05		Client Sample Name: FG1-MW5d, 8/22/2014 4:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	83	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	42	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	320	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	1.0	0.13	EPA-300.0	0.83	A01	3
Nitrate as N	20	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	59	mg/L	2.0	0.36	EPA-300.0	0.54	A01	3
Total Dissolved Solids @ 180 C	700	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.31	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.034	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:13	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 14:08	RML	MET-1	2	BXH2611
3	EPA-300.0	08/23/14	08/24/14 03:43	OLH	IC5	2	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	5	BXH2924
5	EPA-351.2	09/03/14	09/06/14 16:26	JP1	SC-1	1	BXI0168
6	EPA-350.1	09/08/14	09/08/14 14:22	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:38	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 14:52	JP1	SC-1	1	BXI0169

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Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-06		Client Sample Name: FG1-MW6d, 8/22/2014 3:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	51	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	28	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	69	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	5.5	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	80	mg/L	1.0	0.13	EPA-300.0	0.83	A01	3
Nitrate as N	36	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	26	mg/L	2.0	0.36	EPA-300.0	0.54	A01	3
Total Dissolved Solids @ 180 C	590	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.1	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.11	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	2.8	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:16	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 14:14	RML	MET-1	1	BXH2611
3	EPA-300.0	08/23/14	08/24/14 04:00	OLH	IC5	2	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	3.333	BXH2924
5	EPA-351.2	09/03/14	09/06/14 16:29	JP1	SC-1	1	BXI0168
6	EPA-350.1	09/08/14	09/08/14 14:23	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:38	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 14:53	JP1	SC-1	1	BXI0169

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-07		Client Sample Name: FG1-MW7s, 8/22/2014 3:17:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	61	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	23	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	51	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	8.1	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	47	mg/L	1.0	0.13	EPA-300.0	0.83	A01	3
Nitrate as N	34	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	49	mg/L	2.0	0.36	EPA-300.0	0.54	A01	3
Total Dissolved Solids @ 180 C	570	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.5	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.027	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	4.8	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:19	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 14:21	RML	MET-1	1	BXH2611
3	EPA-300.0	08/23/14	08/24/14 04:16	OLH	IC5	2	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	3.333	BXH2924
5	EPA-351.2	09/03/14	09/06/14 16:30	JP1	SC-1	1	BXI0168
6	EPA-350.1	09/08/14	09/08/14 14:24	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:38	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/06/14 14:54	JP1	SC-1	1	BXI0169

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-08		Client Sample Name: FG1-MW8d, 8/22/2014 4:59:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	93	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	47	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	76	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	360	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	88	mg/L	0.50	0.067	EPA-300.0	0.42		3
Nitrate as N	19	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	37	mg/L	1.0	0.18	EPA-300.0	0.27		3
Total Dissolved Solids @ 180 C	660	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.40	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.098	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:21	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 14:28	RML	MET-1	2	BXH2611
3	EPA-300.0	08/23/14	08/24/14 04:33	OLH	IC5	1	BXH2328
4	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	5	BXH2924
5	EPA-351.2	09/03/14	09/08/14 10:02	JP1	SC-1	1	BXI0221
6	EPA-350.1	09/08/14	09/08/14 14:24	JP1	SC-1	1	BXI0708
7	EPA-353.2	08/23/14	08/23/14 10:38	OLH	KONE-1	1	BXH2662
8	EPA-365.4	09/03/14	09/08/14 08:51	JP1	SC-1	1	BXI0222

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419540-09	Client Sample Name: FG1-MW9s, 8/22/2014 1:12:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	57	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	56	mg/L	0.50	0.051	EPA-200.7	0.086		1
Dissolved Potassium	1.2	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	390	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	71	mg/L	0.50	0.067	EPA-300.0	0.42		3
Nitrate as N	24	mg/L	0.20	0.050	EPA-300.0	ND	A01	4
Sulfate	57	mg/L	1.0	0.18	EPA-300.0	0.27		3
Total Dissolved Solids @ 180 C	900	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.55	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.78	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/27/14	09/07/14 23:24	JRG	PE-OP1	1	BXI0525
2	SM-2320B	08/27/14	08/27/14 14:34	RML	MET-1	2	BXH2611
3	EPA-300.0	08/23/14	08/24/14 04:50	OLH	IC5	1	BXH2328
4	EPA-300.0	08/23/14	08/24/14 09:57	OLH	IC5	2	BXH2328
5	SM-2540C	08/29/14	08/29/14 11:30	CAD	MANUAL	5	BXH2924
6	EPA-351.2	09/03/14	09/08/14 10:06	JP1	SC-1	1	BXI0221
7	EPA-350.1	09/08/14	09/08/14 14:26	JP1	SC-1	1	BXI0708
8	EPA-353.2	08/23/14	08/23/14 10:38	OLH	KONE-1	1	BXH2664
9	EPA-365.4	09/03/14	09/08/14 08:30	JP1	SC-1	1	BXI0222

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2328						
Chloride	BXH2328-BLK1	0.41600	mg/L	0.50	0.067	J
Nitrate as N	BXH2328-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2328-BLK1	0.27000	mg/L	1.0	0.18	J
QC Batch ID: BXH2611						
Bicarbonate Alkalinity as CaCO3	BXH2611-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2611-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2611-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2662						
Nitrite as N	BXH2662-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2664						
Nitrite as N	BXH2664-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2924						
Total Dissolved Solids @ 180 C	BXH2924-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0168						
Total Kjeldahl Nitrogen	BXI0168-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0169						
Total Phosphate	BXI0169-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0221						
Total Kjeldahl Nitrogen	BXI0221-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0222						
Total Phosphate	BXI0222-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0525						
Dissolved Calcium	BXI0525-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI0525-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0525-BLK1	0.086161	mg/L	0.50	0.051	J
Dissolved Potassium	BXI0525-BLK1	0.11926	mg/L	1.0	0.10	J
QC Batch ID: BXI0708						
Ammonia as N	BXI0708-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2328										
Chloride	BXH2328-BS1	LCS	51.406	50.000	mg/L	103		90 - 110		
Nitrate as N	BXH2328-BS1	LCS	5.0570	5.0000	mg/L	101		90 - 110		
Sulfate	BXH2328-BS1	LCS	101.70	100.00	mg/L	102		90 - 110		
QC Batch ID: BXH2662										
Nitrite as N	BXH2662-BS1	LCS	0.53894	0.50000	mg/L	108		90 - 110		
QC Batch ID: BXH2664										
Nitrite as N	BXH2664-BS1	LCS	0.52310	0.50000	mg/L	105		90 - 110		
QC Batch ID: BXH2924										
Total Dissolved Solids @ 180 C	BXH2924-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXI0168										
Total Kjeldahl Nitrogen	BXI0168-BS1	LCS	2.0248	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXI0169										
Total Phosphate	BXI0169-BS1	LCS	2.8654	3.0660	mg/L	93.5		85 - 115		
QC Batch ID: BXI0221										
Total Kjeldahl Nitrogen	BXI0221-BS1	LCS	2.1992	2.0000	mg/L	110		90 - 110		
QC Batch ID: BXI0222										
Total Phosphate	BXI0222-BS1	LCS	3.0742	3.0660	mg/L	100		85 - 115		
QC Batch ID: BXI0525										
Dissolved Calcium	BXI0525-BS1	LCS	9.5709	10.000	mg/L	95.7		85 - 115		
Dissolved Magnesium	BXI0525-BS1	LCS	9.7799	10.000	mg/L	97.8		85 - 115		
Dissolved Sodium	BXI0525-BS1	LCS	9.6613	10.000	mg/L	96.6		85 - 115		
Dissolved Potassium	BXI0525-BS1	LCS	9.2320	10.000	mg/L	92.3		85 - 115		
QC Batch ID: BXI0708										
Ammonia as N	BXI0708-BS1	LCS	0.99650	1.0000	mg/L	99.6		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2328		Used client sample: Y - Description: FG1-MW1d, 08/22/2014 13:39								
Chloride	DUP	419540-01RE	132.93	132.90		mg/L	0.0		10	
	MS	419540-01RE	132.93	237.91	101.01	mg/L		104		80 - 120
	MSD	419540-01RE	132.93	237.57	101.01	mg/L	0.1	104	10	80 - 120
Nitrate as N	DUP	419540-01RE	0.68800	0.64400		mg/L	6.6		10	
	MS	419540-01RE	0.68800	10.952	10.101	mg/L		102		80 - 120
	MSD	419540-01RE	0.68800	10.958	10.101	mg/L	0.1	102	10	80 - 120
Sulfate	DUP	419540-01RE	133.29	133.20		mg/L	0.1		10	
	MS	419540-01RE	133.29	352.43	202.02	mg/L		108		80 - 120
	MSD	419540-01RE	133.29	352.01	202.02	mg/L	0.1	108	10	80 - 120
QC Batch ID: BXH2611		Used client sample: Y - Description: FG1-MW1d, 08/22/2014 13:39								
Bicarbonate Alkalinity as CaCO3	DUP	1419540-01	452.44	454.57		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1419540-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419540-01	ND	ND		mg/L			10	
QC Batch ID: BXH2662		Used client sample: N								
Nitrite as N	DUP	1419538-01	ND	ND		mg/L			10	
	MS	1419538-01	ND	0.51947	0.52632	mg/L		98.7		90 - 110
	MSD	1419538-01	ND	0.51392	0.52632	mg/L	1.1	97.6	10	90 - 110
QC Batch ID: BXH2664		Used client sample: Y - Description: ANC-MW1, 08/22/2014 10:52								
Nitrite as N	DUP	1419541-01	0.15341	0.15414		mg/L	0.5		10	
	MS	1419541-01	0.15341	0.71469	0.52632	mg/L		107		90 - 110
	MSD	1419541-01	0.15341	0.66705	0.52632	mg/L	6.9	97.6	10	90 - 110
QC Batch ID: BXH2924		Used client sample: Y - Description: FG1-MW3d, 08/22/2014 14:06								
Total Dissolved Solids @ 180 C	DUP	1419540-03	1230.0	1250.0		mg/L	1.6		10	
QC Batch ID: BXI0168		Used client sample: Y - Description: FG1-MW2d, 08/22/2014 14:32								
Total Kjeldahl Nitrogen	DUP	1419540-02	0.76860	0.75220		mg/L	2.2		20	
	MS	1419540-02	0.76860	2.5533	2.0000	mg/L		89.2		90 - 110 Q03
	MSD	1419540-02	0.76860	2.6072	2.0000	mg/L	2.1	91.9	20	90 - 110
QC Batch ID: BXI0169		Used client sample: Y - Description: FG1-MW2d, 08/22/2014 14:32								
Total Phosphate	DUP	1419540-02	9.5052	9.2734		mg/L	2.5		20	
	MS	1419540-02	9.5052	12.457	3.0660	mg/L		96.3		80 - 120
	MSD	1419540-02	9.5052	12.565	3.0660	mg/L	0.9	99.8	20	80 - 120
QC Batch ID: BXI0221		Used client sample: Y - Description: FG1-MW8d, 08/22/2014 16:59								
Total Kjeldahl Nitrogen	DUP	1419540-08	0.39970	0.47160		mg/L	16.5		20	
	MS	1419540-08	0.39970	2.2428	2.0000	mg/L		92.2		90 - 110
	MSD	1419540-08	0.39970	2.3006	2.0000	mg/L	2.5	95.0	20	90 - 110
QC Batch ID: BXI0222		Used client sample: Y - Description: FG1-MW8d, 08/22/2014 16:59								

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI0222		Used client sample: Y - Description: FG1-MW8d, 08/22/2014 16:59								
Total Phosphate	DUP	1419540-08	ND	ND		mg/L			20	
	MS	1419540-08	ND	2.9810	3.0660	mg/L		97.2		80 - 120
	MSD	1419540-08	ND	2.9107	3.0660	mg/L	2.4	94.9	20	80 - 120
QC Batch ID: BXI0525		Used client sample: Y - Description: FG1-MW1d, 08/22/2014 13:39								
Dissolved Calcium	DUP	1419540-01	98.969	98.116		mg/L	0.9		20	
	MS	1419540-01	98.969	109.02	10.204	mg/L		98.5		85 - 115
	MSD	1419540-01	98.969	109.93	10.204	mg/L	0.8	107	20	85 - 115
Dissolved Magnesium	DUP	1419540-01	46.212	46.437		mg/L	0.5		20	
	MS	1419540-01	46.212	57.316	10.204	mg/L		109		85 - 115
	MSD	1419540-01	46.212	56.741	10.204	mg/L	1.0	103	20	85 - 115
Dissolved Sodium	DUP	1419540-01	160.61	157.88		mg/L	1.7		20	
	MS	1419540-01	160.61	168.58	10.204	mg/L		78.1		85 - 115
	MSD	1419540-01	160.61	171.06	10.204	mg/L	1.5	102	20	85 - 115
Dissolved Potassium	DUP	1419540-01	5.8227	5.8958		mg/L	1.2		20	
	MS	1419540-01	5.8227	16.198	10.204	mg/L		102		85 - 115
	MSD	1419540-01	5.8227	16.422	10.204	mg/L	1.4	104	20	85 - 115
QC Batch ID: BXI0708		Used client sample: Y - Description: FG1-MW1d, 08/22/2014 13:39								
Ammonia as N	DUP	1419540-01	0.27150	0.26830		mg/L	1.2		10	
	MS	1419540-01	0.27150	1.3860	1.1111	mg/L		100		90 - 110
	MSD	1419540-01	0.27150	1.4313	1.1111	mg/L	3.2	104	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 15:59
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/16/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Gallo Cattle Company Bear Creek
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419783
Invoice ID: B183393

Enclosed are the results of analyses for samples received by the laboratory on 8/26/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419783

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19783

Chain of Custody

4100 Atlas Ct
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Analysis Requested

Report to:

Name: Del-Tech
Expanded Constituent Suite

Address: 645 N Yosemite

City: Oakdale

State: 95361

Attn: Don Light

Project: Dairy Representative Monitoring Program

Site: Gallo Cattle Company Bear Creek 30 - Annual

Samplers Name: Del Tech Slag Spans

Global ID:

From Filtered Sample:

Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids

From Unfiltered Sample:

Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3

From Filtered Sample:

Ammonia-N, NO3-N, NO2-N

Q1/P6 Unpreserved

Time Sampled

Date Sampled

Strike out non-sampled wells

Matrix

Lab #

1 BEA-MW4e, BEA-MW4d - DRy

2 BEA-MW2a, BEA-MW2d - DRy

3 BEA-MW3a, BEA-MW3d - DRy

4 BEA-MW4e, BEA-MW4d -10

5 Field Duplicate

6

7

8

9

10

11

12

x

x

x

x

x

x

x

x

x

x

x

x

Comments

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lohdorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pdhalival@lscce.com
- 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

Lab- Filler

Received By: [Signature]

Date & Time: 8/26/14 17:56

Received By: [Signature]

Date & Time: 8-26-14 0000

Relinquished by: (Signature) [Signature]

Date & Time: 8-26-14 / 17:56

Relinquished by: (Signature) [Signature]

Date & Time: 8-26-14 0000

Relinquished by: (Signature) [Signature]

Date & Time: 8-26-14 0000



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-19783

SHIPPING INFORMATION Federal Express UPS Hand Delivery BC Lab Field Service Other

SHIPPING CONTAINER Ice Chest None Box Other

FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals Ice Chest Containers Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Temperature: (A) 0.1 C / (C) 0.3 C

Date/Time 8/26/14 Analyst Init MW 2240

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Includes a 'SHORT HOLDING TIME' stamp.

Comments: Sample Numbering Completed By: MW Date/Time: 8/27/14 09:05 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1419783-01	COC Number: ---	Receive Date: 08/26/2014 22:40
	Project Number: ---	Sampling Date: 08/26/2014 12:39
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: BEA-MW4d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419783-01		Client Sample Name: BEA-MW4d, 8/26/2014 12:39:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	90	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	27	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	0.058		1
Dissolved Potassium	6.4	mg/L	1.0	0.10	EPA-200.7	0.12		1
Bicarbonate Alkalinity as CaCO3	400	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	130	mg/L	1.0	0.13	EPA-300.0	0.17	A01	3
Nitrate as N	8.7	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	93	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	830	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.49	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.32	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.16	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/11/14 22:11	JRG	PE-OP2	1	BXI0528
2	SM-2320B	09/04/14	09/04/14 17:01	RML	MET-1	2	BXI0416
3	EPA-300.0	08/27/14	08/28/14 09:33	OLH	IC2	2	BXH2800
4	SM-2540C	08/31/14	08/31/14 13:00	MSA	MANUAL	3.333	BXH2982
5	EPA-351.2	09/08/14	09/09/14 11:56	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 16:51	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 10:16	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/09/14 10:13	JP1	SC-1	1	BXI0703

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2679						
Nitrite as N	BXH2679-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2800						
Chloride	BXH2800-BLK1	0.083000	mg/L	0.50	0.067	J
Nitrate as N	BXH2800-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2800-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2982						
Total Dissolved Solids @ 180 C	BXH2982-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0416						
Bicarbonate Alkalinity as CaCO3	BXI0416-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0416-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0416-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0528						
Dissolved Calcium	BXI0528-BLK1	0.029673	mg/L	0.10	0.016	J
Dissolved Magnesium	BXI0528-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0528-BLK1	0.059407	mg/L	0.50	0.051	J
Dissolved Potassium	BXI0528-BLK1	0.11967	mg/L	1.0	0.10	J
QC Batch ID: BXI0702						
Total Kjeldahl Nitrogen	BXI0702-BLK1	0.081400	mg/L	0.20	0.053	J
QC Batch ID: BXI0703						
Total Phosphate	BXI0703-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0960						
Ammonia as N	BXI0960-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2679										
Nitrite as N	BXH2679-BS1	LCS	0.48887	0.50000	mg/L	97.8		90 - 110		
QC Batch ID: BXH2800										
Chloride	BXH2800-BS1	LCS	51.988	50.000	mg/L	104		90 - 110		
Nitrate as N	BXH2800-BS1	LCS	5.1440	5.0000	mg/L	103		90 - 110		
Sulfate	BXH2800-BS1	LCS	103.65	100.00	mg/L	104		90 - 110		
QC Batch ID: BXH2982										
Total Dissolved Solids @ 180 C	BXH2982-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXI0528										
Dissolved Calcium	BXI0528-BS1	LCS	10.216	10.204	mg/L	100		85 - 115		
Dissolved Magnesium	BXI0528-BS1	LCS	10.746	10.204	mg/L	105		85 - 115		
Dissolved Sodium	BXI0528-BS1	LCS	10.418	10.204	mg/L	102		85 - 115		
Dissolved Potassium	BXI0528-BS1	LCS	9.8797	10.204	mg/L	96.8		85 - 115		
QC Batch ID: BXI0702										
Total Kjeldahl Nitrogen	BXI0702-BS1	LCS	2.0794	2.0000	mg/L	104		90 - 110		
QC Batch ID: BXI0703										
Total Phosphate	BXI0703-BS1	LCS	2.7884	3.0660	mg/L	90.9		85 - 115		
QC Batch ID: BXI0960										
Ammonia as N	BXI0960-BS1	LCS	1.0210	1.0000	mg/L	102		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2679		Used client sample: Y - Description: COT-MW12d, 08/26/2014 16:33								
Nitrite as N	DUP	1419782-04	ND	ND		mg/L			10	
	MS	1419782-04	ND	0.53279	0.52632	mg/L		101		90 - 110
	MSD	1419782-04	ND	0.53455	0.52632	mg/L	0.3	102	10	90 - 110
QC Batch ID: BXH2800		Used client sample: N								
Chloride	DUP	419778-04RE'	51.970	54.710		mg/L	5.1		10	
	MS	419778-04RE'	51.970	348.85	252.53	mg/L		118		80 - 120
	MSD	419778-04RE'	51.970	349.03	252.53	mg/L	0.0	118	10	80 - 120
Nitrate as N	DUP	419778-04RE'	ND	ND		mg/L			10	
	MS	419778-04RE'	ND	27.086	25.253	mg/L		107		80 - 120
	MSD	419778-04RE'	ND	27.283	25.253	mg/L	0.7	108	10	80 - 120
Sulfate	DUP	419778-04RE'	11.980	11.335		mg/L	5.5		10	
	MS	419778-04RE'	11.980	546.17	505.05	mg/L		106		80 - 120
	MSD	419778-04RE'	11.980	545.10	505.05	mg/L	0.2	106	10	80 - 120
QC Batch ID: BXH2982		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1419719-01	600.00	665.00		mg/L	10.3		10	Q01
QC Batch ID: BXI0416		Used client sample: Y - Description: COT-MW14d, 08/26/2014 15:34								
Bicarbonate Alkalinity as CaCO3	DUP	1419782-06	423.84	426.58		mg/L	0.6		10	
Carbonate Alkalinity as CaCO3	DUP	1419782-06	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419782-06	ND	ND		mg/L			10	
QC Batch ID: BXI0528		Used client sample: Y - Description: BET-MW1d, 08/25/2014 14:42								
Dissolved Calcium	DUP	1419684-01	46.802	47.586		mg/L	1.7		20	
	MS	1419684-01	46.802	56.333	10.204	mg/L		93.4		85 - 115
	MSD	1419684-01	46.802	56.158	10.204	mg/L	0.3	91.7	20	85 - 115
Dissolved Magnesium	DUP	1419684-01	13.042	13.230		mg/L	1.4		20	
	MS	1419684-01	13.042	23.363	10.204	mg/L		101		85 - 115
	MSD	1419684-01	13.042	23.209	10.204	mg/L	0.7	99.6	20	85 - 115
Dissolved Sodium	DUP	1419684-01	29.118	29.535		mg/L	1.4		20	
	MS	1419684-01	29.118	39.054	10.204	mg/L		97.4		85 - 115
	MSD	1419684-01	29.118	38.956	10.204	mg/L	0.3	96.4	20	85 - 115
Dissolved Potassium	DUP	1419684-01	6.5430	6.6218		mg/L	1.2		20	
	MS	1419684-01	6.5430	16.678	10.204	mg/L		99.3		85 - 115
	MSD	1419684-01	6.5430	16.563	10.204	mg/L	0.7	98.2	20	85 - 115
QC Batch ID: BXI0702		Used client sample: Y - Description: BEA-MW4d, 08/26/2014 12:39								
Total Kjeldahl Nitrogen	DUP	1419783-01	0.48600	0.48840		mg/L	0.5		20	
	MS	1419783-01	0.48600	2.3965	2.0000	mg/L		95.5		90 - 110
	MSD	1419783-01	0.48600	2.3917	2.0000	mg/L	0.2	95.3	20	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals	
								Percent Recovery	RPD		Percent Recovery
QC Batch ID: BXI0703		Used client sample: Y - Description: BEA-MW4d, 08/26/2014 12:39									
Total Phosphate	DUP	1419783-01	0.15791	0.12418		mg/L	23.9		20		J,A02
	MS	1419783-01	0.15791	3.3084	3.0660	mg/L		103		80 - 120	
	MSD	1419783-01	0.15791	3.1235	3.0660	mg/L	5.7	96.7	20	80 - 120	
QC Batch ID: BXI0960		Used client sample: Y - Description: COT-MW12d, 08/26/2014 16:33									
Ammonia as N	DUP	1419782-04	ND	0.094000		mg/L			10		J
	MS	1419782-04	ND	1.1630	1.1111	mg/L		105		90 - 110	
	MSD	1419782-04	ND	1.1679	1.1111	mg/L	0.4	105	10	90 - 110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- Q01 Sample precision is not within the control limits.



Date of Report: 09/16/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Gallo Cattle Company Cottonwood
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419782
Invoice ID: B183392

Enclosed are the results of analyses for samples received by the laboratory on 8/26/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Water Analysis (General Chemistry).....	9
1419782-03 - COT-MW11d	
Water Analysis (General Chemistry).....	10
1419782-04 - COT-MW12d	
Water Analysis (General Chemistry).....	11
1419782-05 - COT-MW13d	
Water Analysis (General Chemistry).....	12
1419782-06 - COT-MW14d	
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Case Narratives

Case Narrative for Work Order 1419782

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19782

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Analysis Requested

From Unfiltered Sample:

Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

From Filtered Sample:

Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Filtered Sample:

Ammonia-N, NO3-N,
NO2-N

Name: Del-Tech

Address: 645 N Yosemite

City: Oakdale

State: 95361

Attn: Don Light

Project: Dairy Representative Monitoring Program

Gallo Cattle Company Cottonwood

Samplers Name: Del-Tech / Stacy Jones

Global ID: 39 Annual

Date Sampled: 8-26-14

Time Sampled: NA

Matrix: GW

Qt Pe Unpreserved: X

Strike out non-sampled wells: DRX

DRY

Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.

2) Lab reports shall identify sampled wells exactly as shown on this CoC.

3) Send lab reports to Lufdorf and Scalmani Consulting Engineers via email: llavagnino@lscce.com, rbyyson@lscce.com, pdhalival@lscce.com

4) Send bill to Del-Tech, only.

Relinquished by: (Signature)

8-26-14 / M:56

Relinquished by: (Signature)

8-26-14

Relinquished by: (Signature)

(A)= Analysis (C)= Container (P)= Preservative

Lab - Felter

Received By: [Signature]

Date & Time: 8/26/14 17:56

Received By: [Signature]

Date & Time: 8-26-14 2240

Received By: [Signature]

Date & Time: [Blank]



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page () Of ()

Submission #: 14-19782

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/26/14
 Temperature: (A) 0.1 °C / (C) 0.3 °C Analyst Init MW 2240

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB	AB	AB	AB	AB				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 Cr NO NO₃ OF SS
 DC Cl BCD NBAS COT
 CHIBY DISTRIBUTION
 MW MATCH SUBOUT

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/27/14 @ 0105 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419782-01	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 15:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW9	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	
1419782-02	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 14:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW10	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	
1419782-03	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 16:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW11d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	
1419782-04	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 16:33
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW12d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	
1419782-05	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 16:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW13d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	

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Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419782-06	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 15:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW14d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	

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Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419782-01	Client Sample Name: COT-MW9, 8/26/2014 3:06:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	190	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	52	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	140	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	550	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	1.0	0.13	EPA-300.0	0.42	A01	3
Nitrate as N	23	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	190	mg/L	2.0	0.36	EPA-300.0	0.45	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.23	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.034	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.023	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	1.1	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/11/14 20:17	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 20:12	RML	MET-1	2	BXH2749
3	EPA-300.0	08/28/14	08/28/14 09:52	OLH	IC5	2	BXH2866
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0110
5	EPA-351.2	09/08/14	09/08/14 21:12	JP1	SC-1	1	BXI0700
6	EPA-350.1	09/10/14	09/10/14 16:46	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 09:42	TDC	KONE-1	1	BXH2677
8	EPA-365.4	09/08/14	09/08/14 18:53	JP1	SC-1	1	BXI0701

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Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419782-02	Client Sample Name: COT-MW10, 8/26/2014 2:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	60	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	210	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	170	mg/L	1.0	0.13	EPA-300.0	0.42	A01	3
Nitrate as N	32	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	230	mg/L	2.0	0.36	EPA-300.0	0.45	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.34	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	5.0	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/11/14 21:14	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 20:19	RML	MET-1	2	BXH2749
3	EPA-300.0	08/28/14	08/28/14 09:34	OLH	IC5	2	BXH2866
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	10	BXI0110
5	EPA-351.2	09/08/14	09/08/14 21:16	JP1	SC-1	1	BXI0700
6	EPA-350.1	09/10/14	09/10/14 16:47	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 09:42	TDC	KONE-1	1	BXH2677
8	EPA-365.4	09/08/14	09/08/14 18:55	JP1	SC-1	1	BXI0701

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Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419782-03		Client Sample Name: COT-MW11d, 8/26/2014 4:08:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	230	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	60	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	160	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	57	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	200	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	100	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	59	mg/L	5.0	0.90	EPA-300.0	1.1	A01	3
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.68	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.060	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.61	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	46	mg/L	3.0	1.8	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/11/14 21:17	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 20:26	RML	MET-1	2	BXH2749
3	EPA-300.0	08/28/14	08/28/14 10:27	OLH	IC5	5	BXH2866
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	10	BXI0110
5	EPA-351.2	09/08/14	09/08/14 21:18	JP1	SC-1	1	BXI0700
6	EPA-350.1	09/10/14	09/10/14 16:47	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 10:16	TDC	KONE-1	1	BXH2677
8	EPA-365.4	09/08/14	09/08/14 20:06	JP1	SC-1	20	BXI0701

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Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419782-04	Client Sample Name: COT-MW12d, 8/26/2014 4:33:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	40	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	97	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	7.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	370	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	96	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	62	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	49	mg/L	5.0	0.90	EPA-300.0	1.1	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.30	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.3	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/11/14 21:19	JRG	PE-OP2	1	BXI0527
2	SM-2320B	09/02/14	09/02/14 14:24	RML	MET-1	2	BXI0049
3	EPA-300.0	08/28/14	08/28/14 10:44	OLH	IC5	5	BXH2866
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0110
5	EPA-351.2	09/08/14	09/08/14 21:19	JP1	SC-1	1	BXI0700
6	EPA-350.1	09/10/14	09/10/14 16:40	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 10:16	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/08/14 19:57	JP1	SC-1	5	BXI0701

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Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419782-05	Client Sample Name: COT-MW13d, 8/26/2014 4:55:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	47	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	130	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	6.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	290	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	5.0	0.67	EPA-300.0	2.1	A01	3
Nitrate as N	85	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	120	mg/L	10	1.8	EPA-300.0	2.2	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.26	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.8	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 00:13	JRG	PE-OP2	1	BXI0529
2	SM-2320B	09/02/14	09/02/14 14:30	RML	MET-1	2	BXI0049
3	EPA-300.0	08/28/14	08/28/14 11:01	OLH	IC5	10	BXH2866
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0110
5	EPA-351.2	09/08/14	09/08/14 21:20	JP1	SC-1	1	BXI0700
6	EPA-350.1	09/10/14	09/10/14 16:49	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 10:16	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/08/14 19:58	JP1	SC-1	5	BXI0701

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Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419782-06	Client Sample Name: COT-MW14d, 8/26/2014 3:34:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	50	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	130	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	8.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	420	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	69	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	58	mg/L	5.0	0.90	EPA-300.0	1.1	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.022	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.38	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 00:15	JRG	PE-OP2	1	BXI0529
2	SM-2320B	09/04/14	09/04/14 16:43	RML	MET-1	2	BXI0416
3	EPA-300.0	08/28/14	08/28/14 10:09	OLH	IC5	5	BXH2866
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0110
5	EPA-351.2	09/08/14	09/08/14 21:21	JP1	SC-1	1	BXI0700
6	EPA-350.1	09/10/14	09/10/14 16:49	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 10:16	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/08/14 18:59	JP1	SC-1	1	BXI0701

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Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2677						
Nitrite as N	BXH2677-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2679						
Nitrite as N	BXH2679-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2749						
Bicarbonate Alkalinity as CaCO3	BXH2749-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2749-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2749-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2866						
Chloride	BXH2866-BLK1	0.21200	mg/L	0.50	0.067	J
Nitrate as N	BXH2866-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2866-BLK1	0.22300	mg/L	1.0	0.18	J
QC Batch ID: BXI0049						
Bicarbonate Alkalinity as CaCO3	BXI0049-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0049-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0049-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0110						
Total Dissolved Solids @ 180 C	BXI0110-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0416						
Bicarbonate Alkalinity as CaCO3	BXI0416-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0416-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0416-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0527						
Dissolved Calcium	BXI0527-BLK1	0.028819	mg/L	0.10	0.016	J
Dissolved Magnesium	BXI0527-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0527-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI0527-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI0529						
Dissolved Calcium	BXI0529-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI0529-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0529-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI0529-BLK1	ND	mg/L	1.0	0.10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0700						
Total Kjeldahl Nitrogen	BXI0700-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0701						
Total Phosphate	BXI0701-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0960						
Ammonia as N	BXI0960-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab RPD Quals
							Percent Recovery	RPD	
QC Batch ID: BXH2677									
Nitrite as N	BXH2677-BS1	LCS	0.49468	0.50000	mg/L	98.9	90	110	
QC Batch ID: BXH2679									
Nitrite as N	BXH2679-BS1	LCS	0.48887	0.50000	mg/L	97.8	90	110	
QC Batch ID: BXH2866									
Chloride	BXH2866-BS1	LCS	52.400	50.000	mg/L	105	90	110	
Nitrate as N	BXH2866-BS1	LCS	5.4650	5.0000	mg/L	109	90	110	
Sulfate	BXH2866-BS1	LCS	104.91	100.00	mg/L	105	90	110	
QC Batch ID: BXI0110									
Total Dissolved Solids @ 180 C	BXI0110-BS1	LCS	555.00	586.00	mg/L	94.7	90	110	
QC Batch ID: BXI0527									
Dissolved Calcium	BXI0527-BS1	LCS	10.041	10.000	mg/L	100	85	115	
Dissolved Magnesium	BXI0527-BS1	LCS	10.429	10.000	mg/L	104	85	115	
Dissolved Sodium	BXI0527-BS1	LCS	10.194	10.000	mg/L	102	85	115	
Dissolved Potassium	BXI0527-BS1	LCS	9.7034	10.000	mg/L	97.0	85	115	
QC Batch ID: BXI0529									
Dissolved Calcium	BXI0529-BS1	LCS	9.9674	10.000	mg/L	99.7	85	115	
Dissolved Magnesium	BXI0529-BS1	LCS	10.339	10.000	mg/L	103	85	115	
Dissolved Sodium	BXI0529-BS1	LCS	10.459	10.000	mg/L	105	85	115	
Dissolved Potassium	BXI0529-BS1	LCS	9.6944	10.000	mg/L	96.9	85	115	
QC Batch ID: BXI0700									
Total Kjeldahl Nitrogen	BXI0700-BS1	LCS	1.8749	2.0000	mg/L	93.7	90	110	
QC Batch ID: BXI0701									
Total Phosphate	BXI0701-BS1	LCS	2.9543	3.0660	mg/L	96.4	85	115	
QC Batch ID: BXI0960									
Ammonia as N	BXI0960-BS1	LCS	1.0210	1.0000	mg/L	102	90	110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2677		Used client sample: N								
Nitrite as N	DUP	1419699-01	ND	ND		mg/L			10	
	MS	1419699-01	ND	0.54189	0.52632	mg/L		103		90 - 110
	MSD	1419699-01	ND	0.54445	0.52632	mg/L	0.5	103	10	90 - 110
QC Batch ID: BXH2679		Used client sample: Y - Description: COT-MW12d, 08/26/2014 16:33								
Nitrite as N	DUP	1419782-04	ND	ND		mg/L			10	
	MS	1419782-04	ND	0.53279	0.52632	mg/L		101		90 - 110
	MSD	1419782-04	ND	0.53455	0.52632	mg/L	0.3	102	10	90 - 110
QC Batch ID: BXH2749		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419773-06	157.61	158.07		mg/L	0.3		10	
Carbonate Alkalinity as CaCO3	DUP	1419773-06	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419773-06	ND	ND		mg/L			10	
QC Batch ID: BXH2866		Used client sample: Y - Description: COT-MW11d, 08/26/2014 16:08								
Chloride	DUP	419782-03RE'	183.73	184.92		mg/L	0.6		10	
	MS	419782-03RE'	183.73	773.99	505.05	mg/L		117		80 - 120
	MSD	419782-03RE'	183.73	771.27	505.05	mg/L	0.4	116	10	80 - 120
Nitrate as N	DUP	419782-03RE'	101.45	101.67		mg/L	0.2		10	
	MS	419782-03RE'	101.45	156.48	50.505	mg/L		109		80 - 120
	MSD	419782-03RE'	101.45	156.38	50.505	mg/L	0.1	109	10	80 - 120
Sulfate	DUP	419782-03RE'	58.390	58.850		mg/L	0.8		10	
	MS	419782-03RE'	58.390	1192.2	1010.1	mg/L		112		80 - 120
	MSD	419782-03RE'	58.390	1191.3	1010.1	mg/L	0.1	112	10	80 - 120
QC Batch ID: BXI0049		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1420086-01	33.320	33.930		mg/L	1.8		10	
Carbonate Alkalinity as CaCO3	DUP	1420086-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1420086-01	ND	ND		mg/L			10	
QC Batch ID: BXI0110		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								
Total Dissolved Solids @ 180 C	DUP	1419782-01	1285.0	1265.0		mg/L	1.6		10	
QC Batch ID: BXI0416		Used client sample: Y - Description: COT-MW14d, 08/26/2014 15:34								
Bicarbonate Alkalinity as CaCO3	DUP	1419782-06	423.84	426.58		mg/L	0.6		10	
Carbonate Alkalinity as CaCO3	DUP	1419782-06	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419782-06	ND	ND		mg/L			10	
QC Batch ID: BXI0527		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								
Dissolved Calcium	DUP	1419782-01	194.04	191.98		mg/L	1.1		20	
	MS	1419782-01	194.04	200.04	10.204	mg/L		58.9		85 - 115 A03
	MSD	1419782-01	194.04	200.30	10.204	mg/L	0.1	61.4	20	85 - 115 A03

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI0527		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								
Dissolved Magnesium	DUP	1419782-01	52.430	52.656		mg/L	0.4		20	
	MS	1419782-01	52.430	61.525	10.204	mg/L		89.1		85 - 115
	MSD	1419782-01	52.430	62.375	10.204	mg/L	1.4	97.5	20	85 - 115
Dissolved Sodium	DUP	1419782-01	144.64	142.44		mg/L	1.5		20	
	MS	1419782-01	144.64	151.88	10.204	mg/L		71.0		85 - 115 A03
	MSD	1419782-01	144.64	151.58	10.204	mg/L	0.2	68.1	20	85 - 115 A03
Dissolved Potassium	DUP	1419782-01	4.6541	4.7510		mg/L	2.1		20	
	MS	1419782-01	4.6541	15.149	10.204	mg/L		103		85 - 115
	MSD	1419782-01	4.6541	15.278	10.204	mg/L	0.8	104	20	85 - 115
QC Batch ID: BXI0529		Used client sample: N								
Dissolved Calcium	DUP	1419773-01	46.591	46.032		mg/L	1.2		20	
	MS	1419773-01	46.591	54.578	10.000	mg/L		79.9		85 - 115 A03
	MSD	1419773-01	46.591	54.551	10.000	mg/L	0.0	79.6	20	85 - 115 A03
Dissolved Magnesium	DUP	1419773-01	24.261	23.895		mg/L	1.5		20	
	MS	1419773-01	24.261	33.306	10.000	mg/L		90.4		85 - 115
	MSD	1419773-01	24.261	33.162	10.000	mg/L	0.4	89.0	20	85 - 115
Dissolved Sodium	DUP	1419773-01	57.119	56.542		mg/L	1.0		20	
	MS	1419773-01	57.119	65.330	10.000	mg/L		82.1		85 - 115 A03
	MSD	1419773-01	57.119	65.354	10.000	mg/L	0.0	82.4	20	85 - 115 A03
Dissolved Potassium	DUP	1419773-01	3.2376	3.2172		mg/L	0.6		20	
	MS	1419773-01	3.2376	13.277	10.000	mg/L		100		85 - 115
	MSD	1419773-01	3.2376	13.264	10.000	mg/L	0.1	100	20	85 - 115
QC Batch ID: BXI0700		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								
Total Kjeldahl Nitrogen	DUP	1419782-01	0.22980	0.26100		mg/L	12.7		20	
	MS	1419782-01	0.22980	1.8503	2.0000	mg/L		81.0		90 - 110 Q03
	MSD	1419782-01	0.22980	1.9050	2.0000	mg/L	2.9	83.8	20	90 - 110 Q03
QC Batch ID: BXI0701		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								
Total Phosphate	DUP	1419782-01	1.1081	1.0413		mg/L	6.2		20	
	MS	1419782-01	1.1081	4.1115	3.0660	mg/L		98.0		80 - 120
	MSD	1419782-01	1.1081	4.0590	3.0660	mg/L	1.3	96.2	20	80 - 120
QC Batch ID: BXI0960		Used client sample: Y - Description: COT-MW12d, 08/26/2014 16:33								
Ammonia as N	DUP	1419782-04	ND	0.094000		mg/L			10	J
	MS	1419782-04	ND	1.1630	1.1111	mg/L		105		90 - 110
	MSD	1419782-04	ND	1.1679	1.1111	mg/L	0.4	105	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 12:03
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.

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Date of Report: 09/17/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Gallo Cattle Company Santa Rita

BCL Project: Dairy Rep MP - Expanded Suite

BCL Work Order: 1419923

Invoice ID: B183467

Enclosed are the results of analyses for samples received by the laboratory on 8/27/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419923

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19923

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Analysis Requested

Name: Del-Tech		Project: Dairy Representative Monitoring Program		From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids		From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
Address: 645 N Yosemite		Site: Gallo Cattle Company Santa Rita		From Filtered Sample: Ammonia-N, NO3-N, NO2-N			
City: Oakdale		Sample Name: <u>30 Annual</u>					
State: 95361		Global ID: <u>Del Tech / Stacy Jones</u>					
Attn: Don Light							
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved	Received By:	Date & Time
1	SAN-MW1s, SAN-MW1d	8-27-14	9:31	GW	x	<u>Karl Dickey</u>	8-27-14 18:25
2	SAN-MW2s, SAN-MW2d	NA	NA		x		
3	SAN-MW3s, SAN-MW3d	NA	NA		x		
4	SAN-MW4s, SAN-MW4d	8:56	8:56		x		
5	SAN-MW5s, SAN-MW5d	8:21	8:21		x		
6	SAN-MW6s, SAN-MW6d	11:09	11:09		x		
7	SAN-MW7s, SAN-MW7d	9:37	9:37		x		
8	SAN-MW8s, SAN-MW8d	9:58	9:58		x		
9	Field-Duplicate	NA	NA		x		
10							
11							
12							

Comments:

- 1) Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lufthorff and Scalmani Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pphalivell@lscce.com
- 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

Lab-Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: _____

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.97 Container: PC Thermometer ID: 207 Date/Time: 8/29/14 2:50
 Temperature: (A) 0.1 °C / (C) 0.3 °C Analyst Init: MM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB	AB	AB	AB	AB				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SPORT HARKLING TIME
 DO NOT HOLD IMPACT COC
 CHIEF BY DISTRIBUTION
 MWA
 SUECUT

Comments: _____ Date/Time: 8/29/14 0020 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16]
 Sample Numbering Completed By: MM
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419923-01	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 09:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1419923-02	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 08:56
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1419923-03	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 08:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1419923-04	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 11:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1419923-05	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 10:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW7d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1419923-06	COC Number: ---	Receive Date: 08/27/2014 21:50
	Project Number: ---	Sampling Date: 08/27/2014 09:58
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SAN-MW8d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419923-01	Client Sample Name: SAN-MW1d, 8/27/2014 9:31:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	74	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	22	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	360	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	530	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	88	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	47	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	150	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.30	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.043	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.25	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/03/14	09/12/14 01:27	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 07:10	RML	MET-1	2	BXI0180
3	EPA-300.0	08/29/14	08/30/14 15:34	LD1	IC5	5	BXH2962
4	EPA-300.0	08/29/14	08/29/14 04:06	LD1	IC5	5	BXH2962
5	SM-2540C	09/03/14	09/03/14 20:10	NW1	MANUAL	5	BXI0267
6	EPA-351.2	09/09/14	09/10/14 09:16	JP1	SC-1	1	BXI0831
7	EPA-350.1	09/11/14	09/11/14 11:52	JP1	SC-1	1	BXI1045
8	EPA-353.2	08/28/14	08/28/14 09:47	TDC	KONE-1	1	BXH2919
9	EPA-365.4	09/09/14	09/10/14 08:18	JP1	SC-1	1	BXI0856

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Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419923-02		Client Sample Name: SAN-MW4d, 8/27/2014 8:56:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	51	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	410	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	86	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	68	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	86	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.97	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	3.7	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/03/14	09/12/14 01:40	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 07:18	RML	MET-1	2	BXI0180
3	EPA-300.0	08/29/14	08/29/14 03:32	OLH	IC5	5	BXH2962
4	SM-2540C	09/03/14	09/03/14 20:10	NW1	MANUAL	5	BXI0267
5	EPA-351.2	09/09/14	09/10/14 09:17	JP1	SC-1	1	BXI0831
6	EPA-350.1	09/11/14	09/11/14 11:55	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 09:48	TDC	KONE-1	1	BXH2919
8	EPA-365.4	09/09/14	09/10/14 08:19	JP1	SC-1	1	BXI0856

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Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419923-03		Client Sample Name: SAN-MW5d, 8/27/2014 8:21:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	51	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	160	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	370	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	99	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	51	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	150	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.40	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.049	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.32	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/03/14	09/12/14 01:42	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 07:26	RML	MET-1	2	BXI0180
3	EPA-300.0	08/29/14	08/29/14 03:49	OLH	IC5	5	BXH2962
4	SM-2540C	09/03/14	09/03/14 20:10	NW1	MANUAL	5	BXI0267
5	EPA-351.2	09/09/14	09/10/14 09:20	JP1	SC-1	1	BXI0831
6	EPA-350.1	09/11/14	09/11/14 11:57	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 09:57	TDC	KONE-1	1	BXH2919
8	EPA-365.4	09/09/14	09/10/14 08:21	JP1	SC-1	1	BXI0856

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Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419923-04	Client Sample Name: SAN-MW6s, 8/27/2014 11:09:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	180	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	56	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	250	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	450	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	40	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	250	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.19	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.21	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/03/14	09/12/14 01:52	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 07:33	RML	MET-1	2	BXI0180
3	EPA-300.0	08/29/14	08/29/14 07:52	OLH	IC5	5	BXH2962
4	SM-2540C	09/03/14	09/03/14 20:10	NW1	MANUAL	10	BXI0267
5	EPA-351.2	09/09/14	09/10/14 09:21	JP1	SC-1	1	BXI0831
6	EPA-350.1	09/11/14	09/11/14 11:57	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 09:57	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/09/14	09/10/14 08:22	JP1	SC-1	1	BXI0856

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Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419923-05		Client Sample Name: SAN-MW7d, 8/27/2014 10:37:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	180	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	50	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	170	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	550	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	92	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	38	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	110	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.50	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/03/14	09/12/14 01:54	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 07:41	RML	MET-1	2	BXI0180
3	EPA-300.0	08/29/14	08/29/14 06:43	OLH	IC5	5	BXH2962
4	SM-2540C	09/03/14	09/03/14 20:10	NW1	MANUAL	5	BXI0267
5	EPA-351.2	09/09/14	09/10/14 09:12	JP1	SC-1	1	BXI0831
6	EPA-350.1	09/11/14	09/11/14 11:59	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 09:57	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/09/14	09/10/14 08:16	JP1	SC-1	1	BXI0856

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Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419923-06		Client Sample Name: SAN-MW8d, 8/27/2014 9:58:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	45	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	140	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	450	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	75	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	27	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	110	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.43	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.36	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/03/14	09/12/14 01:57	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 07:49	RML	MET-1	2	BXI0180
3	EPA-300.0	08/29/14	08/29/14 04:41	OLH	IC5	5	BXH2962
4	SM-2540C	09/03/14	09/03/14 20:10	NW1	MANUAL	5	BXI0267
5	EPA-351.2	09/11/14	09/11/14 17:31	JP1	SC-1	1	BXI1040
6	EPA-350.1	09/11/14	09/11/14 12:01	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 09:57	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/11/14	09/11/14 16:19	JP1	SC-1	1	BXI1041

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Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2919						
Nitrite as N	BXH2919-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2921						
Nitrite as N	BXH2921-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2962						
Chloride	BXH2962-BLK1	0.22300	mg/L	0.50	0.067	J
Nitrate as N	BXH2962-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2962-BLK1	0.20100	mg/L	1.0	0.18	J
QC Batch ID: BXI0180						
Bicarbonate Alkalinity as CaCO3	BXI0180-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0180-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0180-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0267						
Total Dissolved Solids @ 180 C	BXI0267-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0831						
Total Kjeldahl Nitrogen	BXI0831-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0856						
Total Phosphate	BXI0856-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI1040						
Total Kjeldahl Nitrogen	BXI1040-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1041						
Total Phosphate	BXI1041-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI1045						
Ammonia as N	BXI1045-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1148						
Dissolved Calcium	BXI1148-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI1148-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1148-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI1148-BLK1	ND	mg/L	1.0	0.10	

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645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2919										
Nitrite as N	BXH2919-BS1	LCS	0.51170	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH2921										
Nitrite as N	BXH2921-BS1	LCS	0.49194	0.50000	mg/L	98.4		90 - 110		
QC Batch ID: BXH2962										
Chloride	BXH2962-BS1	LCS	46.228	50.000	mg/L	92.5		90 - 110		
Nitrate as N	BXH2962-BS1	LCS	4.6370	5.0000	mg/L	92.7		90 - 110		
Sulfate	BXH2962-BS1	LCS	92.764	100.00	mg/L	92.8		90 - 110		
QC Batch ID: BXI0267										
Total Dissolved Solids @ 180 C	BXI0267-BS1	LCS	540.00	586.00	mg/L	92.2		90 - 110		
QC Batch ID: BXI0831										
Total Kjeldahl Nitrogen	BXI0831-BS1	LCS	1.8944	2.0000	mg/L	94.7		90 - 110		
QC Batch ID: BXI0856										
Total Phosphate	BXI0856-BS1	LCS	3.0061	3.0660	mg/L	98.0		85 - 115		
QC Batch ID: BXI1040										
Total Kjeldahl Nitrogen	BXI1040-BS1	LCS	2.0365	2.0000	mg/L	102		90 - 110		
QC Batch ID: BXI1041										
Total Phosphate	BXI1041-BS1	LCS	3.1116	3.0660	mg/L	101		85 - 115		
QC Batch ID: BXI1045										
Ammonia as N	BXI1045-BS1	LCS	1.0441	1.0000	mg/L	104		90 - 110		
QC Batch ID: BXI1148										
Dissolved Calcium	BXI1148-BS1	LCS	9.8791	10.000	mg/L	98.8		85 - 115		
Dissolved Magnesium	BXI1148-BS1	LCS	10.141	10.000	mg/L	101		85 - 115		
Dissolved Sodium	BXI1148-BS1	LCS	10.097	10.000	mg/L	101		85 - 115		
Dissolved Potassium	BXI1148-BS1	LCS	9.6277	10.000	mg/L	96.3		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs: BXH2919, BXH2921, BXH2962, BXI0180, BXI0267, BXI0831, BXI0856, BXI1040, BXI1041.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI1041		Used client sample: Y - Description: TON-MW4d, 08/27/2014 17:30								
Total Phosphate	DUP	1419922-02	0.46330	0.29190		mg/L	45.4		20	A02
	MS	1419922-02	0.46330	3.2814	3.0660	mg/L		91.9	80 - 120	
	MSD	1419922-02	0.46330	3.3388	3.0660	mg/L	1.7	93.8	20 80 - 120	
QC Batch ID: BXI1045		Used client sample: Y - Description: SAN-MW1d, 08/27/2014 09:31								
Ammonia as N	DUP	1419923-01	0.043100	0.039600		mg/L	8.5		10	J
	MS	1419923-01	0.043100	1.1640	1.1111	mg/L		101	90 - 110	
	MSD	1419923-01	0.043100	1.1822	1.1111	mg/L	1.6	103	10 90 - 110	
QC Batch ID: BXI1148		Used client sample: Y - Description: SAN-MW1d, 08/27/2014 09:31								
Dissolved Calcium	DUP	1419923-01	74.421	74.242		mg/L	0.2		20	
	MS	1419923-01	74.421	82.701	10.204	mg/L		81.1	85 - 115	A03
	MSD	1419923-01	74.421	82.885	10.204	mg/L	0.2	83.0	20 85 - 115	A03
Dissolved Magnesium	DUP	1419923-01	22.136	22.056		mg/L	0.4		20	
	MS	1419923-01	22.136	31.745	10.204	mg/L		94.2	85 - 115	
	MSD	1419923-01	22.136	31.914	10.204	mg/L	0.5	95.8	20 85 - 115	
Dissolved Sodium	DUP	1419923-01	355.33	354.61		mg/L	0.2		20	
	MS	1419923-01	355.33	358.43	10.204	mg/L		30.4	85 - 115	A03
	MSD	1419923-01	355.33	367.87	10.204	mg/L	2.6	123	20 85 - 115	A03
Dissolved Potassium	DUP	1419923-01	4.0246	4.1623		mg/L	3.4		20	
	MS	1419923-01	4.0246	14.934	10.204	mg/L		107	85 - 115	
	MSD	1419923-01	4.0246	15.164	10.204	mg/L	1.5	109	20 85 - 115	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/08/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Genasci Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419217
Invoice ID: B182535

Enclosed are the results of analyses for samples received by the laboratory on 8/19/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419217

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19217

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Analysis Requested

Report to:

Expanded Constituent Suite

Name: Del-Tech
 Address: 645 N Yosemite
 City: Oakdale
 State: 95361
 CA
 Attn: Don Light

Project: Dairy Representative Monitoring Program
 Site: Genasci Dairy 30 - Annual
 Samplers Name: Del Tech / Stacy Lyons
 Global ID -

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1, P6 Unpreserved	Analysis Requested		
						From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
- 1	GEN-MW1	8-19-14	9:37	GW	x	x	x	x
- 2	GEN-MW2		11:16		x	x	x	x
- 3	GEN-MW3		9:00		x	x	x	x
- 4	GEN-MW5		10:41		x	x	x	x
- 5	GEN-MW6		14:41		x	x	x	x
- 6	GEN-MW7		10:09		x	x	x	x
- 7	GEN-MW8		12:01		x	x	x	x
- 8	GEN-MW9		13:41		x	x	x	x
- 9	GEN-MW10		12:31		x	x	x	x
- 10	GEN-MW11s, GEN-MW11d		13:00		x	x	x	x
- 11	GEN-MW12s, GEN-MW12d		14:08		x	x	x	x
- 12	Field Duplicate				x	x	x	x
13								
14								
15								

Relinquished by: (Signature) [Signature] 8-19-14 1745 Date & Time
 Relinquished by: (Signature) [Signature] 8-19-14 1840 Date & Time
 Relinquished by: (Signature) [Signature] 8-19-14 2200 Date & Time

Comments
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lohdorff and Scatmann Consulting Engineers via email: llavagnin@isce.com, rbyson@isce.com, pdhalwai@isce.com
 4) Send bill to Del-Tech, only.

* Lab Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 2

Submission #: 14-19217

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/19/14 22:10
 Temperature: (A) 0.0 °C / (C) 0.2 °C Analyst Init: MWI

SAMPLE CONTAINERS	SAMPLE NUMBERS											
	1	2	3	4	5	6	7	8	9	10	11	12
QT GENERAL MINERAL/ GENERAL	AB	AB	AB	AB	AB	AB	A	AB	AB	AB		
PT PE UNPRESERVED												
QT INORGANIC CHEMICAL METALS												
PT INORGANIC CHEMICAL METALS												
PT CYANIDE												
PT NITROGEN FORMS												
PT TOTAL SULFIDE												
2oz. NITRATE /NITRITE												
PT TOTAL ORGANIC CARBON												
PT TOX												
PT CHEMICAL OXYGEN DEMAND												
PIA PHENOLICS												
40ml VOA VIAL TRAVEL BLANK												
40ml VOA VIAL												
QT EPA 413.1, 413.2, 418.1												
PT ODOR												
RADIOLOGICAL												
BACTERIOLOGICAL												
40 ml VOA VIAL- 504												
QT EPA 508/608/8080												
QT EPA 515.1/8150												
QT EPA 525												
QT EPA 525 TRAVEL BLANK												
40ml EPA 547												
40ml EPA 531.1												
8oz Amber EPA 548												
QT EPA 549												
QT EPA 632												
QT EPA 8015M												
QT AMBER												
8 OZ. JAR												
32 OZ. JAR												
SOIL SLEEVE-												
PCB VIAL												
PLASTIC BAG												
FERROUS IRON												
ENCORE												
SMART KIT												
Summa Canister												

DO NOT FILLING TIME
 C⁺ NO₃ OP SS
 DO CL EOD MBAS CDT
 CHLOR. DISTRIBUTION
 SUB-CUT

Comments: _____
 Sample Numbering Completed By: MWI Date/Time: 8/19/14 00:45 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-19217

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.97 Container: Te Thermometer ID: 207 Date/Time 8/20/14 2240
 Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init. MM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	15	18	11	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	B	AB							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MM Date/Time: 8/20/14 @ 0045 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419217-01	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 09:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-02	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 11:16
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-03	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 09:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-04	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 10:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW5	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-05	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 14:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419217-06	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 10:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW7	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-07	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 12:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW8	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-08	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 13:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW9	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-09	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 12:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW10	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419217-10	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 13:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW11s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419217-11	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 14:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW12s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419217-12	COC Number:	---	Receive Date:	08/19/2014 22:10
	Project Number:	---	Sampling Date:	08/19/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-01		Client Sample Name: GEN-MW1, 8/19/2014 9:37:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	180	mg/L	0.10	0.016	EPA-200.7	0.033		1
Dissolved Magnesium	130	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	160	mg/L	0.50	0.051	EPA-200.7	0.073		1
Dissolved Potassium	100	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	970	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	260	mg/L	2.5	0.34	EPA-300.0	0.92	A01	3
Nitrate as N	7.6	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	80	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	14	mg/L	1.0	0.26	EPA-351.2	ND	A01	6
Ammonia as N	12	mg/L	1.0	0.33	EPA-350.1	ND	A01	7
Nitrite as N	0.19	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	14	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 04:26	JRG	PE-OP1	1	BXH2415
2	SM-2320B	08/22/14	08/23/14 00:06	RLP	MET-1	2	BXH2239
3	EPA-300.0	08/21/14	08/21/14 05:51	LD1	IC5	5	BXH2040
4	EPA-300.0	09/03/14	09/03/14 14:15	OLH	IC1	2	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	10	BXH2321
6	EPA-351.2	08/27/14	08/29/14 17:03	JP1	SC-1	5	BXH2711
7	EPA-350.1	09/02/14	09/03/14 12:57	JP1	SC-1	10	BXI0067
8	EPA-353.2	08/20/14	08/20/14 09:13	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/27/14	08/29/14 15:32	JP1	SC-1	5	BXH2712

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1419217-02	Client Sample Name:	GEN-MW2, 8/19/2014 11:16:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	200	mg/L	0.10	0.016	EPA-200.7	0.033		1
Dissolved Magnesium	150	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	0.073		1
Dissolved Potassium	9.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	770	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	0.92	A01	3
Nitrate as N	54	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	75	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1200	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.71	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.15	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.99	mg/L	0.25	0.050	EPA-353.2	ND	A01	8
Total Phosphate	0.49	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 04:29	JRG	PE-OP1	1	BXH2415
2	SM-2320B	08/22/14	08/23/14 00:14	RLP	MET-1	2	BXH2239
3	EPA-300.0	08/21/14	08/21/14 06:08	LD1	IC5	5	BXH2040
4	EPA-300.0	09/03/14	09/03/14 15:14	OLH	IC1	5	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	10	BXH2321
6	EPA-351.2	08/27/14	08/29/14 17:04	JP1	SC-1	1	BXH2711
7	EPA-350.1	09/02/14	09/03/14 13:00	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:25	TDC	KONE-1	5	BXH1855
9	EPA-365.4	08/27/14	08/29/14 15:32	JP1	SC-1	1	BXH2712

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-03	Client Sample Name: GEN-MW3, 8/19/2014 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	300	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	250	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	410	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	690	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	2000	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	420	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	120	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	300	mg/L	10	1.8	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	3800	mg/L	200	200	SM-2540C	ND		5
Total Kjeldahl Nitrogen	21	mg/L	1.0	0.26	EPA-351.2	ND	A01	6
Ammonia as N	12	mg/L	1.0	0.33	EPA-350.1	ND	A01	7
Nitrite as N	0.039	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	1.7	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:02	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 00:21	RLP	MET-1	2	BXH2239
3	EPA-300.0	08/21/14	08/21/14 06:58	LD1	IC5	10	BXH2040
4	EPA-300.0	09/03/14	09/03/14 15:29	OLH	IC1	10	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	20	BXH2321
6	EPA-351.2	08/27/14	08/29/14 17:05	JP1	SC-1	5	BXH2711
7	EPA-350.1	09/02/14	09/03/14 13:05	JP1	SC-1	10	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:17	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/27/14	08/29/14 15:33	JP1	SC-1	5	BXH2712

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Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-04		Client Sample Name: GEN-MW5, 8/19/2014 10:41:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	220	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	130	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	100	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	12	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	610	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	49	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	120	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	170	mg/L	10	1.8	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	3.2	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.14	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.52	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	2.9	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 22:50	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 00:33	RLP	MET-1	2	BXH2239
3	EPA-300.0	08/21/14	08/21/14 07:15	LD1	IC5	10	BXH2040
4	EPA-300.0	09/03/14	09/03/14 15:44	OLH	IC1	10	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	10	BXH2321
6	EPA-351.2	08/27/14	08/29/14 17:06	JP1	SC-1	1	BXH2711
7	EPA-350.1	09/02/14	09/03/14 13:06	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:17	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/27/14	08/29/14 15:34	JP1	SC-1	1	BXH2712

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Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-05		Client Sample Name: GEN-MW6, 8/19/2014 2:41:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	180	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	60	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	460	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	64	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	85	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	62	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	1.3	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.044	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.014	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	1.2	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:05	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 00:57	RLP	MET-1	2	BXH2240
3	EPA-300.0	08/21/14	08/21/14 07:32	LD1	IC5	10	BXH2040
4	EPA-300.0	09/03/14	09/03/14 15:58	OLH	IC1	5	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	5	BXH2321
6	EPA-351.2	08/27/14	08/29/14 16:59	JP1	SC-1	1	BXH2711
7	EPA-350.1	09/02/14	09/03/14 13:07	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:17	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/27/14	08/29/14 15:29	JP1	SC-1	1	BXH2712

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Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-06	Client Sample Name: GEN-MW7, 8/19/2014 10:09:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	94	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	50	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	41	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	320	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	25	mg/L	1.0	0.13	EPA-300.0	0.37	A01	3
Nitrate as N	29	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	42	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	580	mg/L	33	33	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.80	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.013	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	0.27	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:12	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 01:10	RLP	MET-1	1	BXH2240
3	EPA-300.0	08/21/14	08/21/14 07:49	LD1	IC5	2	BXH2040
4	EPA-300.0	09/03/14	09/03/14 16:43	OLH	IC1	2	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	3.333	BXH2321
6	EPA-351.2	08/27/14	08/29/14 17:08	JP1	SC-1	1	BXH2711
7	EPA-350.1	09/02/14	09/03/14 13:07	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:17	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/27/14	08/29/14 15:35	JP1	SC-1	1	BXH2712

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Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-07	Client Sample Name: GEN-MW8, 8/19/2014 12:01:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	200	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	150	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	8.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	710	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	0.92	A01	3
Nitrate as N	72	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	89	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.54	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.048	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.084	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	0.23	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:14	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 01:18	RLP	MET-1	2	BXH2240
3	EPA-300.0	08/21/14	08/21/14 08:06	LD1	IC5	5	BXH2040
4	EPA-300.0	09/03/14	09/03/14 16:58	OLH	IC1	5	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	10	BXH2321
6	EPA-351.2	08/28/14	08/29/14 09:23	JP1	SC-1	1	BXH2778
7	EPA-350.1	09/02/14	09/03/14 13:09	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:17	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/28/14	08/28/14 15:46	JP1	SC-1	1	BXH2779

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Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-08		Client Sample Name: GEN-MW9, 8/19/2014 1:41:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	100	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	42	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	56	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	140	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	250	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	27	mg/L	2.5	0.34	EPA-300.0	0.92	A01	3
Nitrate as N	89	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	59	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	1.2	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.092	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	35	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:17	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 01:25	RLP	MET-1	2	BXH2240
3	EPA-300.0	08/21/14	08/21/14 08:23	LD1	IC5	5	BXH2040
4	EPA-300.0	09/03/14	09/03/14 17:13	OLH	IC1	5	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	5	BXH2321
6	EPA-351.2	08/28/14	08/29/14 09:24	JP1	SC-1	1	BXH2778
7	EPA-350.1	09/02/14	09/03/14 13:09	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:17	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/28/14	08/28/14 16:17	JP1	SC-1	5	BXH2779

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Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-09		Client Sample Name: GEN-MW10, 8/19/2014 12:31:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	120	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	82	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	21	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	730	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	86	mg/L	1.0	0.13	EPA-300.0	0.37	A01	3
Nitrate as N	27	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	59	mg/L	2.0	0.36	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	1.2	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.23	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	0.81	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	3.5	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:19	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 01:31	RLP	MET-1	2	BXH2240
3	EPA-300.0	08/21/14	08/21/14 08:40	LD1	IC5	2	BXH2040
4	EPA-300.0	09/03/14	09/03/14 17:27	OLH	IC1	2	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	5	BXH2321
6	EPA-351.2	08/28/14	08/29/14 09:24	JP1	SC-1	1	BXH2778
7	EPA-350.1	09/02/14	09/03/14 13:11	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:29	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/28/14	08/28/14 15:47	JP1	SC-1	1	BXH2779

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-10	Client Sample Name: GEN-MW11s, 8/19/2014 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	77	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	82	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	200	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	390	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	28	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	140	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	10	1.8	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	4.3	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.096	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.45	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	26	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:22	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 01:38	RLP	MET-1	2	BXH2240
3	EPA-300.0	08/21/14	08/21/14 08:57	LD1	IC5	10	BXH2040
4	EPA-300.0	09/03/14	09/03/14 17:42	OLH	IC1	10	BXI0332
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	10	BXH2321
6	EPA-351.2	08/28/14	08/29/14 09:26	JP1	SC-1	1	BXH2778
7	EPA-350.1	09/02/14	09/03/14 13:13	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:29	TDC	KONE-1	1	BXH1855
9	EPA-365.4	08/28/14	08/28/14 16:18	JP1	SC-1	5	BXH2779

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419217-11		Client Sample Name: GEN-MW12s, 8/19/2014 2:08:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	110	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	66	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	400	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	49	mg/L	2.5	0.34	EPA-300.0	0.99	A01	3
Nitrate as N	86	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	4
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.036	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	0.012	mg/L	0.050	0.010	EPA-353.2	ND	J	8
Total Phosphate	0.72	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:24	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 01:44	RLP	MET-1	2	BXH2240
3	EPA-300.0	08/21/14	08/21/14 09:14	LD1	IC5	5	BXH2039
4	EPA-300.0	09/03/14	09/03/14 18:27	OLH	IC1	5	BXI0333
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	5	BXH2322
6	EPA-351.2	08/28/14	08/29/14 09:28	JP1	SC-1	1	BXH2778
7	EPA-350.1	09/02/14	09/03/14 13:14	JP1	SC-1	1	BXI0068
8	EPA-353.2	08/20/14	08/20/14 09:13	TDC	KONE-1	1	BXH1854
9	EPA-365.4	08/28/14	08/28/14 15:49	JP1	SC-1	1	BXH2779

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1419217-12	Client Sample Name:	Field Duplicate #1, 8/19/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	300	mg/L	0.10	0.016	EPA-200.7	ND		1	
Dissolved Magnesium	240	mg/L	0.050	0.019	EPA-200.7	ND		1	
Dissolved Sodium	420	mg/L	0.50	0.051	EPA-200.7	ND		1	
Dissolved Potassium	710	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate Alkalinity as CaCO3	2000	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	420	mg/L	5.0	0.67	EPA-300.0	2.0	A01	3	
Nitrate as N	120	mg/L	1.0	0.25	EPA-300.0	ND	A01	3	
Sulfate	290	mg/L	10	1.8	EPA-300.0	ND	A01	4	
Total Dissolved Solids @ 180 C	3800	mg/L	200	200	SM-2540C	ND		5	
Total Kjeldahl Nitrogen	17	mg/L	1.0	0.26	EPA-351.2	ND	A01	6	
Ammonia as N	13	mg/L	2.0	0.66	EPA-350.1	ND	A01	7	
Nitrite as N	0.039	mg/L	0.050	0.010	EPA-353.2	ND	J	8	
Total Phosphate	1.7	mg/L	0.75	0.46	EPA-365.4	ND	A01	9	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/22/14	08/28/14 23:27	JRG	PE-OP1	1	BXH2417
2	SM-2320B	08/22/14	08/23/14 01:51	RLP	MET-1	2	BXH2240
3	EPA-300.0	08/21/14	08/21/14 09:30	LD1	IC5	10	BXH2039
4	EPA-300.0	09/03/14	09/03/14 19:56	OLH	IC1	10	BXI0333
5	SM-2540C	08/25/14	08/25/14 13:00	CAD	MANUAL	20	BXH2322
6	EPA-351.2	08/28/14	08/29/14 09:29	JP1	SC-1	5	BXH2778
7	EPA-350.1	09/03/14	09/03/14 21:03	JP1	SC-1	20	BXI0210
8	EPA-353.2	08/20/14	08/20/14 09:13	TDC	KONE-1	1	BXH1854
9	EPA-365.4	08/28/14	08/28/14 15:50	JP1	SC-1	5	BXH2779

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1854						
Nitrite as N	BXH1854-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1855						
Nitrite as N	BXH1855-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2039						
Chloride	BXH2039-BLK1	0.19800	mg/L	0.50	0.067	J
Nitrate as N	BXH2039-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXH2040						
Chloride	BXH2040-BLK1	0.18500	mg/L	0.50	0.067	J
Nitrate as N	BXH2040-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXH2239						
Bicarbonate Alkalinity as CaCO3	BXH2239-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2239-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2239-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2240						
Bicarbonate Alkalinity as CaCO3	BXH2240-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2240-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2240-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2321						
Total Dissolved Solids @ 180 C	BXH2321-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2322						
Total Dissolved Solids @ 180 C	BXH2322-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2415						
Dissolved Calcium	BXH2415-BLK1	0.033402	mg/L	0.10	0.016	J
Dissolved Magnesium	BXH2415-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2415-BLK1	0.073384	mg/L	0.50	0.051	J
Dissolved Potassium	BXH2415-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2417						
Dissolved Calcium	BXH2417-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2417-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2417-BLK1	ND	mg/L	0.50	0.051	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2417						
Dissolved Potassium	BXH2417-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2711						
Total Kjeldahl Nitrogen	BXH2711-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2712						
Total Phosphate	BXH2712-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2778						
Total Kjeldahl Nitrogen	BXH2778-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2779						
Total Phosphate	BXH2779-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0067						
Ammonia as N	BXI0067-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0068						
Ammonia as N	BXI0068-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0210						
Ammonia as N	BXI0210-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0332						
Sulfate	BXI0332-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXI0333						
Sulfate	BXI0333-BLK1	ND	mg/L	1.0	0.18	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1854										
Nitrite as N	BXH1854-BS1	LCS	0.50376	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXH1855										
Nitrite as N	BXH1855-BS1	LCS	0.50611	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXH2039										
Chloride	BXH2039-BS1	LCS	51.206	50.000	mg/L	102		90 - 110		
Nitrate as N	BXH2039-BS1	LCS	5.0510	5.0000	mg/L	101		90 - 110		
QC Batch ID: BXH2040										
Chloride	BXH2040-BS1	LCS	50.983	50.000	mg/L	102		90 - 110		
Nitrate as N	BXH2040-BS1	LCS	5.0090	5.0000	mg/L	100		90 - 110		
QC Batch ID: BXH2321										
Total Dissolved Solids @ 180 C	BXH2321-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXH2322										
Total Dissolved Solids @ 180 C	BXH2322-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110		
QC Batch ID: BXH2415										
Dissolved Calcium	BXH2415-BS1	LCS	10.046	10.000	mg/L	100		85 - 115		
Dissolved Magnesium	BXH2415-BS1	LCS	10.105	10.000	mg/L	101		85 - 115		
Dissolved Sodium	BXH2415-BS1	LCS	9.7518	10.000	mg/L	97.5		85 - 115		
Dissolved Potassium	BXH2415-BS1	LCS	9.2378	10.000	mg/L	92.4		85 - 115		
QC Batch ID: BXH2417										
Dissolved Calcium	BXH2417-BS1	LCS	9.6136	10.000	mg/L	96.1		85 - 115		
Dissolved Magnesium	BXH2417-BS1	LCS	9.5810	10.000	mg/L	95.8		85 - 115		
Dissolved Sodium	BXH2417-BS1	LCS	10.043	10.000	mg/L	100		85 - 115		
Dissolved Potassium	BXH2417-BS1	LCS	9.4826	10.000	mg/L	94.8		85 - 115		
QC Batch ID: BXH2711										
Total Kjeldahl Nitrogen	BXH2711-BS1	LCS	2.1253	2.0000	mg/L	106		90 - 110		
QC Batch ID: BXH2712										
Total Phosphate	BXH2712-BS1	LCS	2.9684	3.0660	mg/L	96.8		85 - 115		
QC Batch ID: BXH2778										
Total Kjeldahl Nitrogen	BXH2778-BS1	LCS	1.9934	2.0000	mg/L	99.7		90 - 110		
QC Batch ID: BXH2779										
Total Phosphate	BXH2779-BS1	LCS	3.1254	3.0660	mg/L	102		85 - 115		
QC Batch ID: BXI0067										

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXI0067										
Ammonia as N	BXI0067-BS1	LCS	1.0148	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXI0068										
Ammonia as N	BXI0068-BS1	LCS	1.0227	1.0000	mg/L	102		90 - 110		
QC Batch ID: BXI0210										
Ammonia as N	BXI0210-BS1	LCS	1.0096	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXI0332										
Sulfate	BXI0332-BS1	LCS	99.464	100.00	mg/L	99.5		90 - 110		
QC Batch ID: BXI0333										
Sulfate	BXI0333-BS1	LCS	98.493	100.00	mg/L	98.5		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH1854		Used client sample: N								
Nitrite as N	DUP	1419215-01	0.038025	0.039051		mg/L	2.7		10	J
	MS	1419215-01	0.038025	0.55960	0.52632	mg/L		99.1	90 - 110	
	MSD	1419215-01	0.038025	0.56357	0.52632	mg/L	0.7	99.9	10	90 - 110
QC Batch ID: BXH1855		Used client sample: Y - Description: GEN-MW1, 08/19/2014 09:37								
Nitrite as N	DUP	1419217-01	0.19159	0.19372		mg/L	1.1		10	
	MS	1419217-01	0.19159	0.72249	0.52632	mg/L		101	90 - 110	
	MSD	1419217-01	0.19159	0.72092	0.52632	mg/L	0.2	101	10	90 - 110
QC Batch ID: BXH2039		Used client sample: N								
Chloride	DUP	1419224-01	613.68	605.50		mg/L	1.3		10	
	MS	1419224-01	613.68	851.03	252.53	mg/L		94.0	80 - 120	
	MSD	1419224-01	613.68	856.22	252.53	mg/L	0.6	96.0	10	80 - 120
Nitrate as N	DUP	1419224-01	3.3700	3.3150		mg/L	1.6		10	
	MS	1419224-01	3.3700	29.354	25.253	mg/L		103	80 - 120	
	MSD	1419224-01	3.3700	29.475	25.253	mg/L	0.4	103	10	80 - 120
QC Batch ID: BXH2040		Used client sample: Y - Description: GEN-MW1, 08/19/2014 09:37								
Chloride	DUP	1419217-01	257.49	258.12		mg/L	0.2		10	
	MS	1419217-01	257.49	510.79	252.53	mg/L		100	80 - 120	
	MSD	1419217-01	257.49	510.29	252.53	mg/L	0.1	100	10	80 - 120
Nitrate as N	DUP	1419217-01	7.5900	7.6350		mg/L	0.6		10	
	MS	1419217-01	7.5900	32.172	25.253	mg/L		97.3	80 - 120	
	MSD	1419217-01	7.5900	32.121	25.253	mg/L	0.2	97.1	10	80 - 120
QC Batch ID: BXH2239		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419215-06	533.68	537.03		mg/L	0.6		10	
Carbonate Alkalinity as CaCO3	DUP	1419215-06	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419215-06	ND	ND		mg/L			10	
QC Batch ID: BXH2240		Used client sample: Y - Description: GEN-MW6, 08/19/2014 14:41								
Bicarbonate Alkalinity as CaCO3	DUP	1419217-05	456.40	459.44		mg/L	0.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419217-05	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419217-05	ND	ND		mg/L			10	
QC Batch ID: BXH2321		Used client sample: Y - Description: GEN-MW1, 08/19/2014 09:37								
Total Dissolved Solids @ 180 C	DUP	1419217-01	1420.0	1430.0		mg/L	0.7		10	
QC Batch ID: BXH2322		Used client sample: Y - Description: Field Duplicate #1, 08/19/2014 00:00								
Total Dissolved Solids @ 180 C	DUP	1419217-12	3760.0	3720.0		mg/L	1.1		10	
QC Batch ID: BXH2415		Used client sample: N								

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2415		Used client sample: N								
Dissolved Calcium	DUP	1419210-04	109.06	105.96		mg/L	2.9		20	
	MS	1419210-04	109.06	115.67	10.204	mg/L		64.8		A03
	MSD	1419210-04	109.06	117.81	10.204	mg/L	1.8	85.8	20	85 - 115
Dissolved Magnesium	DUP	1419210-04	49.008	48.404		mg/L	1.2		20	
	MS	1419210-04	49.008	58.578	10.204	mg/L		93.8		85 - 115
	MSD	1419210-04	49.008	59.477	10.204	mg/L	1.5	103	20	85 - 115
Dissolved Sodium	DUP	1419210-04	181.87	176.15		mg/L	3.2		20	
	MS	1419210-04	181.87	183.40	10.204	mg/L		15.0		A03
	MSD	1419210-04	181.87	184.38	10.204	mg/L	0.5	24.6	20	85 - 115
Dissolved Potassium	DUP	1419210-04	5.8164	5.7684		mg/L	0.8		20	
	MS	1419210-04	5.8164	16.132	10.204	mg/L		101		85 - 115
	MSD	1419210-04	5.8164	16.352	10.204	mg/L	1.4	103	20	85 - 115
QC Batch ID: BXH2417		Used client sample: Y - Description: GEN-MW5, 08/19/2014 10:41								
Dissolved Calcium	DUP	1419217-04	217.04	216.62		mg/L	0.2		20	
	MS	1419217-04	217.04	221.39	10.204	mg/L		42.7		A03
	MSD	1419217-04	217.04	228.69	10.204	mg/L	3.2	114	20	85 - 115
Dissolved Magnesium	DUP	1419217-04	127.45	127.94		mg/L	0.4		20	
	MS	1419217-04	127.45	135.89	10.204	mg/L		82.7		A03
	MSD	1419217-04	127.45	136.53	10.204	mg/L	0.5	88.9	20	85 - 115
Dissolved Sodium	DUP	1419217-04	102.70	100.92		mg/L	1.7		20	
	MS	1419217-04	102.70	110.21	10.204	mg/L		73.6		A03
	MSD	1419217-04	102.70	113.34	10.204	mg/L	2.8	104	20	85 - 115
Dissolved Potassium	DUP	1419217-04	11.899	11.588		mg/L	2.6		20	
	MS	1419217-04	11.899	22.418	10.204	mg/L		103		85 - 115
	MSD	1419217-04	11.899	22.557	10.204	mg/L	0.6	104	20	85 - 115
QC Batch ID: BXH2711		Used client sample: Y - Description: GEN-MW6, 08/19/2014 14:41								
Total Kjeldahl Nitrogen	DUP	1419217-05	1.3336	1.3089		mg/L	1.9		20	
	MS	1419217-05	1.3336	3.1181	2.0000	mg/L		89.2		90 - 110
	MSD	1419217-05	1.3336	3.1117	2.0000	mg/L	0.2	88.9	20	90 - 110
QC Batch ID: BXH2712		Used client sample: Y - Description: GEN-MW6, 08/19/2014 14:41								
Total Phosphate	DUP	1419217-05	1.1679	1.2127		mg/L	3.8		20	
	MS	1419217-05	1.1679	4.3013	3.0660	mg/L		102		80 - 120
	MSD	1419217-05	1.1679	4.1403	3.0660	mg/L	3.8	96.9	20	80 - 120
QC Batch ID: BXH2778		Used client sample: N								
Total Kjeldahl Nitrogen	DUP	1419335-02	0.59010	0.60170		mg/L	1.9		20	
	MS	1419335-02	0.59010	2.5951	2.0000	mg/L		100		90 - 110
	MSD	1419335-02	0.59010	2.7495	2.0000	mg/L	5.8	108	20	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2779		Used client sample: N								
Total Phosphate	DUP	1419335-02	15.347	15.802		mg/L	2.9		20	
	MS	1419335-02	15.347	18.843	3.0660	mg/L		114		80 - 120
	MSD	1419335-02	15.347	18.364	3.0660	mg/L	2.6	98.4	20	80 - 120
QC Batch ID: BXI0067		Used client sample: N								
Ammonia as N	DUP	1419215-04	ND	0.034000		mg/L			10	J
	MS	1419215-04	ND	1.1284	1.1111	mg/L		102		90 - 110
	MSD	1419215-04	ND	1.1592	1.1111	mg/L	2.7	104	10	90 - 110
QC Batch ID: BXI0068		Used client sample: Y - Description: GEN-MW2, 08/19/2014 11:16								
Ammonia as N	DUP	1419217-02	0.15010	0.14620		mg/L	2.6		10	
	MS	1419217-02	0.15010	1.3469	1.1111	mg/L		108		90 - 110
	MSD	1419217-02	0.15010	1.3241	1.1111	mg/L	1.7	106	10	90 - 110
QC Batch ID: BXI0210		Used client sample: N								
Ammonia as N	DUP	1419219-01	0.078000	0.079700		mg/L	2.2		10	J
	MS	1419219-01	0.078000	1.1477	1.1111	mg/L		96.3		90 - 110
	MSD	1419219-01	0.078000	1.2290	1.1111	mg/L	6.8	104	10	90 - 110
QC Batch ID: BXI0332		Used client sample: Y - Description: GEN-MW1, 08/19/2014 09:37								
Sulfate	DUP	1419217-01	79.982	80.144		mg/L	0.2		10	
	MS	1419217-01	79.982	292.79	202.02	mg/L		105		80 - 120
	MSD	1419217-01	79.982	292.60	202.02	mg/L	0.1	105	10	80 - 120
QC Batch ID: BXI0333		Used client sample: Y - Description: GEN-MW12s, 08/19/2014 14:08								
Sulfate	DUP	1419217-11	134.74	134.72		mg/L	0.0		10	
	MS	1419217-11	134.74	679.13	505.05	mg/L		108		80 - 120
	MSD	1419217-11	134.74	677.78	505.05	mg/L	0.2	108	10	80 - 120

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/08/2014 10:37
Project: Dairy Rep MP - Expanded Suite
Project Number: Genasci Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/16/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: J. Troost Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419682
Invoice ID: B183388

Enclosed are the results of analyses for samples received by the laboratory on 8/25/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419682

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:		Analysis Requested			
Expanded Constituent Suite		From Filtered Sample:	From Filtered Sample:	From Filtered Sample:	From Unfiltered Sample:
Project: Dairy Representative Monitoring Program		Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	Ammonia-N, NO3-N, NO2-N	Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
Del-Tech	Date Sampled	Time Sampled	Matrix	Cl/Fe Unpreserved	
Address: 645 N Yosemite	8-24-14	01A	GW	x	
City: Oakdale		18:43		x	
State: 95361		18:12		x	
CA		NA		x	
Attr: Don Light					
Site: J. Troost Dairy 30					
Samples Name: <i>Annual</i>					
Global ID: <i>Del-Tech / Stacy Young</i>					
Lab #	Strike out non-sampled wells				
1	DRY				
2					
3					
4	Field Duplicate				
5					
6					
7					
8					
9					
10					
11					
12					

Relinquished by: (Signature)	<i>[Signature]</i>	Date & Time	8/25/14 1835
Relinquished by: (Signature)	<i>[Signature]</i>	Date & Time	8/25/14 19:30
Relinquished by: (Signature)	<i>[Signature]</i>	Date & Time	8/25/14 2200

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lohdorff and Scalmani Consulting Engineers via email: llavagnine@lscce.com, rbyson@lscce.com, pdhalwal@lscce.com
 4) Send bill to Del-Tech only.

(A)= Analysis (C)= Container (P)= Preservative

Lab - Fieter

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 1479682

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8-25-14 2:20
 Temperature: (A) 0.8 °C / (C) 1.0 °C Analyst Init: JN

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		A,15	A,13							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

RECEIVED
 CLP IND CP SS
 DO CLS FOD MIBAS COT
 DISTRIBUTION
 SUB-CUT

Comments: Sample Numbering Completed By: JN Date/Time: 8/26/14 10:55 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419682-01	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/24/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TRO-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419682-02	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/24/2014 18:43
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TRO-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419682-03	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/24/2014 18:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TRO-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419682-02	Client Sample Name: TRO-MW2, 8/24/2014 6:43:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	190	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	44	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	67	mg/L	0.50	0.051	EPA-200.7	0.12		1
Dissolved Potassium	3.4	mg/L	1.0	0.10	EPA-200.7	0.17		1
Bicarbonate Alkalinity as CaCO3	310	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	76	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	49	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.66	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 02:06	JRG	PE-OP1	1	BXI0526
2	SM-2320B	08/28/14	08/28/14 08:32	RLP	MET-1	2	BXH2742
3	EPA-300.0	08/26/14	08/26/14 19:42	OLH	IC2	5	BXH2601
4	SM-2540C	08/29/14	08/29/14 21:20	MSA	MANUAL	5	BXH2974
5	EPA-351.2	09/03/14	09/08/14 10:13	JP1	SC-1	1	BXI0221
6	EPA-350.1	09/08/14	09/09/14 18:24	JP1	SC-1	1	BXI0739
7	EPA-353.2	08/26/14	08/26/14 14:24	TDC	KONE-1	1	BXH2669
8	EPA-365.4	09/03/14	09/08/14 08:34	JP1	SC-1	1	BXI0222

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419682-03		Client Sample Name: TRO-MW3, 8/24/2014 6:12:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	90	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	20	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	33	mg/L	0.50	0.051	EPA-200.7	0.12		1
Dissolved Potassium	4.4	mg/L	1.0	0.10	EPA-200.7	0.17		1
Bicarbonate Alkalinity as CaCO3	240	mg/L	4.1	4.1	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	51	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	16	mg/L	0.50	0.12	EPA-300.0	ND	A01	4
Sulfate	13	mg/L	1.0	0.18	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	440	mg/L	20	20	SM-2540C	ND		5
Total Kjeldahl Nitrogen	ND	mg/L	1.0	0.26	EPA-351.2	ND	A01	6
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.75	0.46	EPA-365.4	ND	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 02:09	JRG	PE-OP1	1	BXI0526
2	SM-2320B	08/28/14	08/28/14 08:44	RLP	MET-1	1	BXH2742
3	EPA-300.0	08/26/14	08/27/14 01:17	OLH	IC2	1	BXH2601
4	EPA-300.0	08/26/14	08/26/14 19:10	OLH	IC2	5	BXH2601
5	SM-2540C	08/29/14	08/29/14 21:20	MSA	MANUAL	2	BXH2974
6	EPA-351.2	09/03/14	09/08/14 10:13	JP1	SC-1	5	BXI0221
7	EPA-350.1	09/08/14	09/09/14 18:39	JP1	SC-1	1	BXI0739
8	EPA-353.2	08/26/14	08/26/14 14:24	TDC	KONE-1	1	BXH2669
9	EPA-365.4	09/03/14	09/08/14 08:35	JP1	SC-1	5	BXI0222

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2601						
Chloride	BXH2601-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH2601-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2601-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2669						
Nitrite as N	BXH2669-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2742						
Bicarbonate Alkalinity as CaCO3	BXH2742-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2742-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2742-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2974						
Total Dissolved Solids @ 180 C	BXH2974-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0221						
Total Kjeldahl Nitrogen	BXI0221-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0222						
Total Phosphate	BXI0222-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0526						
Dissolved Calcium	BXI0526-BLK2	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI0526-BLK2	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0526-BLK2	0.12028	mg/L	0.50	0.051	J
Dissolved Potassium	BXI0526-BLK2	0.16814	mg/L	1.0	0.10	J
QC Batch ID: BXI0739						
Ammonia as N	BXI0739-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2601										
Chloride	BXH2601-BS1	LCS	51.161	50.000	mg/L	102		90 - 110		
Nitrate as N	BXH2601-BS1	LCS	5.1010	5.0000	mg/L	102		90 - 110		
Sulfate	BXH2601-BS1	LCS	102.23	100.00	mg/L	102		90 - 110		
QC Batch ID: BXH2669										
Nitrite as N	BXH2669-BS1	LCS	0.51343	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXH2974										
Total Dissolved Solids @ 180 C	BXH2974-BS1	LCS	590.00	586.00	mg/L	101		90 - 110		
QC Batch ID: BXI0221										
Total Kjeldahl Nitrogen	BXI0221-BS1	LCS	2.1992	2.0000	mg/L	110		90 - 110		
QC Batch ID: BXI0222										
Total Phosphate	BXI0222-BS1	LCS	3.0742	3.0660	mg/L	100		85 - 115		
QC Batch ID: BXI0526										
Dissolved Calcium	BXI0526-BS2	LCS	9.7415	10.000	mg/L	97.4		85 - 115		
Dissolved Magnesium	BXI0526-BS2	LCS	10.258	10.000	mg/L	103		85 - 115		
Dissolved Sodium	BXI0526-BS2	LCS	9.6037	10.000	mg/L	96.0		85 - 115		
Dissolved Potassium	BXI0526-BS2	LCS	9.2831	10.000	mg/L	92.8		85 - 115		
QC Batch ID: BXI0739										
Ammonia as N	BXI0739-BS1	LCS	0.94950	1.0000	mg/L	95.0		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2601		Used client sample: N								
Chloride	DUP	1419520-04	36.424	36.381		mg/L	0.1		10	
	MS	1419520-04	36.424	92.912	50.505	mg/L		112		80 - 120
	MSD	1419520-04	36.424	92.969	50.505	mg/L	0.1	112	10	80 - 120
Nitrate as N	DUP	1419520-04	ND	ND		mg/L			10	
	MS	1419520-04	ND	5.2212	5.0505	mg/L		103		80 - 120
	MSD	1419520-04	ND	5.1939	5.0505	mg/L	0.5	103	10	80 - 120
Sulfate	DUP	1419520-04	274.05	273.99		mg/L	0.0		10	
	MS	1419520-04	274.05	370.37	101.01	mg/L		95.4		80 - 120
	MSD	1419520-04	274.05	369.62	101.01	mg/L	0.2	94.6	10	80 - 120
QC Batch ID: BXH2669		Used client sample: N								
Nitrite as N	DUP	1419626-01	ND	ND		mg/L			10	
	MS	1419626-01	ND	0.53922	0.52632	mg/L		102		90 - 110
	MSD	1419626-01	ND	0.53577	0.52632	mg/L	0.6	102	10	90 - 110
QC Batch ID: BXH2742		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419647-03	207.05	207.66		mg/L	0.3		10	
Carbonate Alkalinity as CaCO3	DUP	1419647-03	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419647-03	ND	ND		mg/L			10	
QC Batch ID: BXH2974		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1420032-01	2590.0	2540.0		mg/L	1.9		10	
QC Batch ID: BXI0221		Used client sample: Y - Description: FG1-MW8d, 08/22/2014 16:59								
Total Kjeldahl Nitrogen	DUP	1419540-08	0.39970	0.47160		mg/L	16.5		20	
	MS	1419540-08	0.39970	2.2428	2.0000	mg/L		92.2		90 - 110
	MSD	1419540-08	0.39970	2.3006	2.0000	mg/L	2.5	95.0	20	90 - 110
QC Batch ID: BXI0222		Used client sample: Y - Description: FG1-MW8d, 08/22/2014 16:59								
Total Phosphate	DUP	1419540-08	ND	ND		mg/L			20	
	MS	1419540-08	ND	2.9810	3.0660	mg/L		97.2		80 - 120
	MSD	1419540-08	ND	2.9107	3.0660	mg/L	2.4	94.9	20	80 - 120
QC Batch ID: BXI0526		Used client sample: N								
Dissolved Calcium	DUP	1419538-01	115.62	117.40		mg/L	1.5		20	
	MS	1419538-01	115.62	127.02	10.204	mg/L		112		85 - 115
	MSD	1419538-01	115.62	129.94	10.204	mg/L	2.3	140	20	85 - 115 A03
Dissolved Magnesium	DUP	1419538-01	61.115	62.576		mg/L	2.4		20	
	MS	1419538-01	61.115	73.195	10.204	mg/L		118		85 - 115 A03
	MSD	1419538-01	61.115	72.415	10.204	mg/L	1.1	111	20	85 - 115

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI0526		Used client sample: N								
Dissolved Sodium	DUP	1419538-01	41.620	41.699		mg/L	0.2		20	
	MS	1419538-01	41.620	50.083	10.204	mg/L		82.9		85 - 115 A03
	MSD	1419538-01	41.620	51.694	10.204	mg/L	3.2	98.7	20	85 - 115
Dissolved Potassium	DUP	1419538-01	6.8850	6.9883		mg/L	1.5		20	
	MS	1419538-01	6.8850	16.696	10.204	mg/L		96.1		85 - 115
	MSD	1419538-01	6.8850	17.032	10.204	mg/L	2.0	99.4	20	85 - 115
QC Batch ID: BXI0739		Used client sample: Y - Description: TRO-MW2, 08/24/2014 18:43								
Ammonia as N	DUP	1419682-02	ND	ND		mg/L			10	
	MS	1419682-02	ND	1.1268	1.1111	mg/L		101		90 - 110
	MSD	1419682-02	ND	1.1008	1.1111	mg/L	2.3	99.1	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/16/2014 11:58
Project: Dairy Rep MP - Expanded Suite
Project Number: J. Troost Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.



Date of Report: 09/29/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: P&L Souza Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419784
Invoice ID: B184577

Enclosed are the results of analyses for samples received by the laboratory on 8/26/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419784

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19784

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Project: Daily Representative Monitoring Program

Site: P & L Souza Dairy

Sampler Name: 30 Annual

Global ID - Leah - Steve Young

Analysis Requested

From Filtered Sample:

Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Filtered Sample:

Ammonia-N, NO3-N,
NO2-N

From Unfiltered Sample:

Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	QT/Pe Unpreserved
1	PLS-MW1d -1	8-26-14	9:52	GW	x
2	PLS-MW2d -2		9:23		x
3	PLS-MW3d -3		8:17		x
4	PLS-MW4s -4		10:41		x
5	PLS-MW5d -5		8:38		x
6	PLS-MW6s -6		10:49		x
7	PLS-MW7s -7		11:24		x
8	4 Field Duplicate -8		N/A		x
9					
10					
11					
12					

Comments

- 1) Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Luthdriff and Scaramini Consulting Engineers via email: llavagnino@lsce.com, rryyson@lsce.com, pthalliwai@lsce.com
- 4) Send bill to Del-Tech, only.

Relinquished by: (Signature)

8-26-14 / 17:56

Relinquished by: (Signature)

8-26-14

Relinquished by: (Signature)

8-26-14

Received By: (Signature)

8-26-14 17:56

Received By: (Signature)

8-26-14

Received By: (Signature)

8-26-14

(A)= Analysis (C)= Container (P)= Preservative

Lab - Field



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-19784

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/26/14
 Temperature: (A) 0.1 °C / (C) 0.3 °C Analyst Init: MW 2240

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB	AB	AB	AB	AB	AB	AB		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 0-16 (NO.) DP SS
 DC OF BOD MBAS COI
 DISTRIUTION
 MW
 SUB-OUT

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/27/14 09:05 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419784-01	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 09:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT				
1419784-02	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 09:23
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT				
1419784-03	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 08:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT				
1419784-04	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 10:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT				
1419784-05	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 08:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419784-06	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 10:49
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	
1419784-07	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 11:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	
1419784-08	COC Number:	---	Receive Date:	08/26/2014 22:40
	Project Number:	---	Sampling Date:	08/26/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute HT	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419784-01		Client Sample Name: PLS-MW1d, 8/26/2014 9:52:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	58	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	410	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	47	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	96	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.2	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	0.039	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.22	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.36	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 00:32	JRG	PE-OP2	1	BXI0530
2	SM-2320B	09/02/14	09/02/14 14:53	RLP	MET-1	2	BXI0050
3	EPA-300.0	08/27/14	08/27/14 22:24	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0110
5	EPA-351.2	09/08/14	09/09/14 12:00	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 16:53	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 10:22	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/09/14 10:16	JP1	SC-1	1	BXI0703

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1419784-02	Client Sample Name:	PLS-MW2d, 8/26/2014 9:23:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	71	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	220	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	490	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	55	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.6	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	0.063	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.27	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.85	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 00:45	JRG	PE-OP2	1	BXI0530
2	SM-2320B	09/02/14	09/02/14 15:06	RLP	MET-1	2	BXI0050
3	EPA-300.0	08/27/14	08/27/14 22:41	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	10	BXI0110
5	EPA-351.2	09/08/14	09/09/14 12:01	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 16:54	JP1	SC-1	1	BXI0960
7	EPA-353.2	08/27/14	08/27/14 10:22	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/09/14 10:16	JP1	SC-1	1	BXI0703

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Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419784-03	Client Sample Name: PLS-MW3d, 8/26/2014 8:17:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	210	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	54	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	68	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	440	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	75	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	58	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	79	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.9	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.018	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 00:48	JRG	PE-OP2	1	BXI0530
2	SM-2320B	09/02/14	09/02/14 15:13	RLP	MET-1	2	BXI0050
3	EPA-300.0	08/27/14	08/27/14 22:59	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0110
5	EPA-351.2	09/08/14	09/09/14 12:02	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 16:56	JP1	SC-1	1	BXI0961
7	EPA-353.2	08/27/14	08/27/14 10:22	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/09/14 10:17	JP1	SC-1	1	BXI0703

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Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419784-04		Client Sample Name: PLS-MW4s, 8/26/2014 10:41:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	300	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	120	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	360	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	230	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	970	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	570	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	73	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	250	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	2700	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	4.7	mg/L	0.20	0.053	EPA-351.2	0.053		5
Ammonia as N	2.2	mg/L	0.50	0.16	EPA-350.1	ND	A01	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.26	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 00:57	JRG	PE-OP2	1	BXI0530
2	SM-2320B	09/02/14	09/02/14 15:19	RLP	MET-1	2	BXI0050
3	EPA-300.0	08/27/14	08/27/14 23:52	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	20	BXI0110
5	EPA-351.2	09/17/14	09/17/14 13:37	JP1	SC-1	1	BXI1531
6	EPA-350.1	09/10/14	09/10/14 17:41	JP1	SC-1	5	BXI0961
7	EPA-353.2	08/27/14	08/27/14 10:22	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/17/14	09/17/14 15:43	JP1	SC-1	1	BXI1532

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Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419784-05		Client Sample Name: PLS-MW5d, 8/26/2014 8:38:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	210	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	69	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	99	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	420	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	75	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	62	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.0	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	0.039	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.75	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.51	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 01:00	JRG	PE-OP2	1	BXI0530
2	SM-2320B	09/02/14	09/02/14 15:28	RLP	MET-1	2	BXI0050
3	EPA-300.0	08/27/14	08/28/14 00:09	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0111
5	EPA-351.2	09/08/14	09/09/14 12:05	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 17:02	JP1	SC-1	1	BXI0961
7	EPA-353.2	08/27/14	08/27/14 10:22	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/09/14 10:19	JP1	SC-1	1	BXI0703

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Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419784-06	Client Sample Name: PLS-MW6s, 8/26/2014 10:49:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	64	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	240	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	590	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	140	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	54	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.1	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.55	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	4.8	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 01:02	JRG	PE-OP2	1	BXI0530
2	SM-2320B	09/02/14	09/02/14 15:34	RLP	MET-1	2	BXI0050
3	EPA-300.0	08/27/14	08/28/14 00:27	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	10	BXI0111
5	EPA-351.2	09/08/14	09/09/14 12:07	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 17:04	JP1	SC-1	1	BXI0961
7	EPA-353.2	08/27/14	08/27/14 10:22	TDC	KONE-1	1	BXH2679
8	EPA-365.4	09/08/14	09/09/14 10:20	JP1	SC-1	1	BXI0703

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Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419784-07	Client Sample Name: PLS-MW7s, 8/26/2014 11:21:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	65	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	170	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	450	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	130	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	64	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1500	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.4	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	0.067	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.29	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.6	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 01:05	JRG	PE-OP2	1	BXI0530
2	SM-2320B	08/29/14	08/29/14 10:42	RML	MET-1	2	BXH2751
3	EPA-300.0	08/27/14	08/28/14 00:45	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	5	BXI0111
5	EPA-351.2	09/08/14	09/09/14 12:07	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 17:05	JP1	SC-1	1	BXI0961
7	EPA-353.2	08/27/14	08/27/14 10:22	TDC	KONE-1	1	BXH2681
8	EPA-365.4	09/08/14	09/09/14 10:35	JP1	SC-1	5	BXI0703

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Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419784-08	Client Sample Name: Field Duplicate #4, 8/26/2014 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	0.020		1
Dissolved Magnesium	64	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	240	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	560	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	140	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	54	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.2	mg/L	0.20	0.053	EPA-351.2	0.081		5
Ammonia as N	0.037	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.54	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	8.0	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 01:07	JRG	PE-OP2	1	BXI0530
2	SM-2320B	08/29/14	08/29/14 10:58	RML	MET-1	2	BXH2751
3	EPA-300.0	08/27/14	08/28/14 01:02	OLH	IC2	5	BXH2796
4	SM-2540C	09/02/14	09/02/14 15:45	NW1	MANUAL	10	BXI0111
5	EPA-351.2	09/08/14	09/09/14 12:09	JP1	SC-1	1	BXI0702
6	EPA-350.1	09/10/14	09/10/14 17:05	JP1	SC-1	1	BXI0961
7	EPA-353.2	08/27/14	08/27/14 10:27	TDC	KONE-1	1	BXH2681
8	EPA-365.4	09/08/14	09/09/14 10:38	JP1	SC-1	5	BXI0703

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Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2679						
Nitrite as N	BXH2679-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2681						
Nitrite as N	BXH2681-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2751						
Bicarbonate Alkalinity as CaCO3	BXH2751-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2751-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2751-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2796						
Chloride	BXH2796-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH2796-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2796-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXI0050						
Bicarbonate Alkalinity as CaCO3	BXI0050-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0050-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0050-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0110						
Total Dissolved Solids @ 180 C	BXI0110-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0111						
Total Dissolved Solids @ 180 C	BXI0111-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0530						
Dissolved Calcium	BXI0530-BLK1	0.020197	mg/L	0.10	0.016	J
Dissolved Magnesium	BXI0530-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0530-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI0530-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI0702						
Total Kjeldahl Nitrogen	BXI0702-BLK1	0.081400	mg/L	0.20	0.053	J
QC Batch ID: BXI0703						
Total Phosphate	BXI0703-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0960						
Ammonia as N	BXI0960-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0961						
Ammonia as N	BXI0961-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1531						
Total Kjeldahl Nitrogen	BXI1531-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1532						
Total Phosphate	BXI1532-BLK1	ND	mg/L	0.15	0.092	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2679										
Nitrite as N	BXH2679-BS1	LCS	0.48887	0.50000	mg/L	97.8		90 - 110		
QC Batch ID: BXH2681										
Nitrite as N	BXH2681-BS1	LCS	0.49032	0.50000	mg/L	98.1		90 - 110		
QC Batch ID: BXH2796										
Chloride	BXH2796-BS1	LCS	51.696	50.000	mg/L	103		90 - 110		
Nitrate as N	BXH2796-BS1	LCS	5.1300	5.0000	mg/L	103		90 - 110		
Sulfate	BXH2796-BS1	LCS	102.98	100.00	mg/L	103		90 - 110		
QC Batch ID: BXI0110										
Total Dissolved Solids @ 180 C	BXI0110-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXI0111										
Total Dissolved Solids @ 180 C	BXI0111-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXI0530										
Dissolved Calcium	BXI0530-BS1	LCS	9.8913	10.000	mg/L	98.9		85 - 115		
Dissolved Magnesium	BXI0530-BS1	LCS	10.127	10.000	mg/L	101		85 - 115		
Dissolved Sodium	BXI0530-BS1	LCS	10.378	10.000	mg/L	104		85 - 115		
Dissolved Potassium	BXI0530-BS1	LCS	9.7298	10.000	mg/L	97.3		85 - 115		
QC Batch ID: BXI0702										
Total Kjeldahl Nitrogen	BXI0702-BS1	LCS	2.0794	2.0000	mg/L	104		90 - 110		
QC Batch ID: BXI0703										
Total Phosphate	BXI0703-BS1	LCS	2.7884	3.0660	mg/L	90.9		85 - 115		
QC Batch ID: BXI0960										
Ammonia as N	BXI0960-BS1	LCS	1.0210	1.0000	mg/L	102		90 - 110		
QC Batch ID: BXI0961										
Ammonia as N	BXI0961-BS1	LCS	1.0198	1.0000	mg/L	102		90 - 110		
QC Batch ID: BXI1531										
Total Kjeldahl Nitrogen	BXI1531-BS1	LCS	2.0645	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI1532										
Total Phosphate	BXI1532-BS1	LCS	3.3498	3.0660	mg/L	109		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2679		Used client sample: Y - Description: COT-MW12d, 08/26/2014 16:33								
Nitrite as N	DUP	1419782-04	ND	ND		mg/L			10	
	MS	1419782-04	ND	0.53279	0.52632	mg/L		101		90 - 110
	MSD	1419782-04	ND	0.53455	0.52632	mg/L	0.3	102	10	90 - 110
QC Batch ID: BXH2681		Used client sample: Y - Description: PLS-MW7s, 08/26/2014 11:21								
Nitrite as N	DUP	1419784-07	0.29013	0.29101		mg/L	0.3		10	
	MS	1419784-07	0.29013	0.81020	0.52632	mg/L		98.8		90 - 110
	MSD	1419784-07	0.29013	0.80400	0.52632	mg/L	0.8	97.6	10	90 - 110
QC Batch ID: BXH2796		Used client sample: Y - Description: Field Duplicate #4, 08/26/2014 00:00								
Chloride	DUP	1419784-08	143.27	141.76		mg/L	1.1		10	
	MS	1419784-08	143.27	426.37	252.53	mg/L		112		80 - 120
	MSD	1419784-08	143.27	425.66	252.53	mg/L	0.2	112	10	80 - 120
Nitrate as N	DUP	1419784-08	54.365	54.560		mg/L	0.4		10	
	MS	1419784-08	54.365	80.626	25.253	mg/L		104		80 - 120
	MSD	1419784-08	54.365	80.889	25.253	mg/L	0.3	105	10	80 - 120
Sulfate	DUP	1419784-08	129.52	126.39		mg/L	2.4		10	
	MS	1419784-08	129.52	680.27	505.05	mg/L		109		80 - 120
	MSD	1419784-08	129.52	678.52	505.05	mg/L	0.3	109	10	80 - 120
QC Batch ID: BXI0050		Used client sample: Y - Description: PLS-MW1d, 08/26/2014 09:52								
Bicarbonate Alkalinity as CaCO3	DUP	1419784-01	406.19	409.24		mg/L	0.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419784-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419784-01	ND	ND		mg/L			10	
QC Batch ID: BXI0110		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								
Total Dissolved Solids @ 180 C	DUP	1419782-01	1285.0	1265.0		mg/L	1.6		10	
QC Batch ID: BXI0111		Used client sample: Y - Description: PLS-MW5d, 08/26/2014 08:38								
Total Dissolved Solids @ 180 C	DUP	1419784-05	1335.0	1315.0		mg/L	1.5		10	
QC Batch ID: BXI0530		Used client sample: Y - Description: PLS-MW1d, 08/26/2014 09:52								
Dissolved Calcium	DUP	1419784-01	120.88	117.80		mg/L	2.6		20	
	MS	1419784-01	120.88	127.00	10.204	mg/L		60.0		85 - 115 A03
	MSD	1419784-01	120.88	125.72	10.204	mg/L	1.0	47.5	20	85 - 115 A03
Dissolved Magnesium	DUP	1419784-01	57.613	57.266		mg/L	0.6		20	
	MS	1419784-01	57.613	66.945	10.204	mg/L		91.5		85 - 115
	MSD	1419784-01	57.613	66.784	10.204	mg/L	0.2	89.9	20	85 - 115
Dissolved Sodium	DUP	1419784-01	175.92	171.02		mg/L	2.8		20	
	MS	1419784-01	175.92	179.74	10.204	mg/L		37.5		85 - 115 A03
	MSD	1419784-01	175.92	177.78	10.204	mg/L	1.1	18.2	20	85 - 115 A03

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI0530		Used client sample: Y - Description: PLS-MW1d, 08/26/2014 09:52								
Dissolved Potassium	DUP	1419784-01	3.0601	3.0368		mg/L	0.8		20	
	MS	1419784-01	3.0601	14.008	10.204	mg/L		107		85 - 115
	MSD	1419784-01	3.0601	13.843	10.204	mg/L	1.2	106	20	85 - 115
QC Batch ID: BXI0702		Used client sample: Y - Description: BEA-MW4d, 08/26/2014 12:39								
Total Kjeldahl Nitrogen	DUP	1419783-01	0.48600	0.48840		mg/L	0.5		20	
	MS	1419783-01	0.48600	2.3965	2.0000	mg/L		95.5		90 - 110
	MSD	1419783-01	0.48600	2.3917	2.0000	mg/L	0.2	95.3	20	90 - 110
QC Batch ID: BXI0703		Used client sample: Y - Description: BEA-MW4d, 08/26/2014 12:39								
Total Phosphate	DUP	1419783-01	0.15791	0.12418		mg/L	23.9		20	J,A02
	MS	1419783-01	0.15791	3.3084	3.0660	mg/L		103		80 - 120
	MSD	1419783-01	0.15791	3.1235	3.0660	mg/L	5.7	96.7	20	80 - 120
QC Batch ID: BXI0960		Used client sample: Y - Description: COT-MW12d, 08/26/2014 16:33								
Ammonia as N	DUP	1419782-04	ND	0.094000		mg/L			10	J
	MS	1419782-04	ND	1.1630	1.1111	mg/L		105		90 - 110
	MSD	1419782-04	ND	1.1679	1.1111	mg/L	0.4	105	10	90 - 110
QC Batch ID: BXI0961		Used client sample: Y - Description: PLS-MW3d, 08/26/2014 08:17								
Ammonia as N	DUP	1419784-03	ND	ND		mg/L			10	
	MS	1419784-03	ND	1.1729	1.1111	mg/L		106		90 - 110
	MSD	1419784-03	ND	1.1754	1.1111	mg/L	0.2	106	10	90 - 110
QC Batch ID: BXI1531		Used client sample: Y - Description: GOD-MW5s, 08/29/2014 15:59								
Total Kjeldahl Nitrogen	DUP	1420120-05	0.22370	0.18710		mg/L	17.8		20	J
	MS	1420120-05	0.22370	2.0806	2.0000	mg/L		92.8		90 - 110
	MSD	1420120-05	0.22370	2.1333	2.0000	mg/L	2.5	95.5	20	90 - 110
QC Batch ID: BXI1532		Used client sample: Y - Description: GOD-MW5s, 08/29/2014 15:59								
Total Phosphate	DUP	1420120-05	ND	ND		mg/L			20	
	MS	1420120-05	ND	3.3210	3.0660	mg/L		108		80 - 120
	MSD	1420120-05	ND	3.3661	3.0660	mg/L	1.3	110	20	80 - 120

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/29/2014 9:33
Project: Dairy Rep MP - Expanded Suite
Project Number: P&L Souza Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.



Date of Report: 09/19/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Paul Caetano Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419683
Invoice ID: B183712

Enclosed are the results of analyses for samples received by the laboratory on 8/25/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419683

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:		Analysis Requested			
Expanded Constituent Suite		From Filtered Sample:		From Unfiltered Sample:	
Project: Dairy Representative Monitoring Program		Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids		Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3	
Site: Paul Caetano Dairy 30 - Annual		Ammonia-N, NO2-N, NO3-N			
Samplers Name: Del Tech / Stacy Young					
Global ID:					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt/Pe Unpreserved
1	CAE-MW1d , CAE-MW1d -1	8-25-14	11:07	bw	x
2	CAE-MW2d , CAE-MW2d -2		10:38		x
3	CAE-MW3d , CAE-MW3d -3		10:04		x
4	CAE-MW4d , CAE-MW4d -4		11:39		x
5	CAE-MW5s, CAE-MW5d -5		12:04		x
6	CAE-MW6d , CAE-MW6d -6		12:59	by	x
7	Field Duplicate		A-A		x
8					
9					
10					
11					
12					

Relinquished By: (Signature)	8-25-14 / 1835	Received By: (Signature)	8-25-14 19:30
Relinquished By: (Signature)	8-25-14 1930	Received By: (Signature)	8-25-14 2000
Relinquished By: (Signature)		Received By: (Signature)	

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luhdorff and Scalmani Consulting Engineers via email: llavagnino@sce.com, rbryson@sce.com, pahalwal@sce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

Lab-filer

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 1419683

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8-25-14 2:20
 Temperature: (A) 0.8 °C / (C) 1.0 °C Analyst Init: JI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A, B	A, B	A, B	A, B	A, B	A, B				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

STORAGE TIME
 Cr+ NO. (C) DP SS
 DO CL2 BOD MBAS COC
 DISTRIBUTION
 SIE-OUT

Comments: _____
 Sample Numbering Completed By: JI Date/Time: 8/26/14 10:56
 = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419683-01	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 11:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419683-02	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 10:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419683-03	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 10:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419683-04	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 11:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419683-05	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 12:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419683-06	COC Number:	---	Receive Date:	08/25/2014 22:20
	Project Number:	---	Sampling Date:	08/25/2014 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419683-01		Client Sample Name: CAE-MW1d, 8/25/2014 11:07:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	60	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	100	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	250	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	1300	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	100	mg/L	0.50	0.067	EPA-300.0	0.22		3
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	41	mg/L	1.0	0.18	EPA-300.0	0.21		3
Total Dissolved Solids @ 180 C	1500	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	130	mg/L	10	2.6	EPA-351.2	2.6	A01	5
Ammonia as N	130	mg/L	25	8.2	EPA-350.1	ND	A01	6
Nitrite as N	0.093	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	6.2	mg/L	0.75	0.46	EPA-365.4	ND	A01	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:12	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 09:08	RLP	MET-1	2	BXH2743
3	EPA-300.0	08/26/14	08/27/14 10:38	LD1	IC5	1	BXH2870
4	SM-2540C	08/30/14	08/30/14 12:00	MSA	MANUAL	5	BXH2977
5	EPA-351.2	09/17/14	09/17/14 14:39	JP1	SC-1	50	BXI1531
6	EPA-350.1	09/08/14	09/09/14 19:36	JP1	SC-1	250	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:24	TDC	KONE-1	1	BXH2673
8	EPA-365.4	09/17/14	09/17/14 15:41	JP1	SC-1	5	BXI1532

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419683-02		Client Sample Name: CAE-MW2d, 8/25/2014 10:38:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	49	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	57	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	350	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	130	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	80	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	91	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	2.1	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.17	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.36	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.34	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 20:30	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 09:26	RLP	MET-1	2	BXH2743
3	EPA-300.0	08/26/14	08/27/14 06:20	LD1	IC5	5	BXH2870
4	SM-2540C	08/30/14	08/30/14 12:00	MSA	MANUAL	3.333	BXH2977
5	EPA-351.2	09/03/14	09/08/14 10:15	JP1	SC-1	1	BXI0221
6	EPA-350.1	09/08/14	09/09/14 18:48	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:25	TDC	KONE-1	1	BXH2673
8	EPA-365.4	09/03/14	09/08/14 08:36	JP1	SC-1	1	BXI0222

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Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419683-03	Client Sample Name: CAE-MW3d, 8/25/2014 10:04:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	39	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	83	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	61	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	240	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	68	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	80	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	71	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	3.5	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.070	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.46	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.18	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 20:32	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 09:33	RLP	MET-1	2	BXH2743
3	EPA-300.0	08/26/14	08/27/14 06:37	LD1	IC5	5	BXH2870
4	SM-2540C	08/30/14	08/30/14 12:00	MSA	MANUAL	3.333	BXH2977
5	EPA-351.2	09/04/14	09/08/14 10:22	JP1	SC-1	1	BXI0399
6	EPA-350.1	09/08/14	09/09/14 18:41	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:25	TDC	KONE-1	1	BXH2673
8	EPA-365.4	09/04/14	09/08/14 08:41	JP1	SC-1	1	BXI0403

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645 North Yosemite Ave.
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Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419683-04		Client Sample Name: CAE-MW4d, 8/25/2014 11:39:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	31	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	75	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	8.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	140	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	47	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	85	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	41	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	3.5	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.052	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.28	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	2.8	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:05	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 09:39	RLP	MET-1	2	BXH2743
3	EPA-300.0	08/26/14	08/27/14 06:54	LD1	IC5	5	BXH2870
4	SM-2540C	08/30/14	08/30/14 12:00	MSA	MANUAL	3.333	BXH2977
5	EPA-351.2	09/04/14	09/08/14 10:25	JP1	SC-1	1	BXI0399
6	EPA-350.1	09/08/14	09/09/14 18:50	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:28	TDC	KONE-1	1	BXH2673
8	EPA-365.4	09/04/14	09/08/14 08:43	JP1	SC-1	1	BXI0403

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Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419683-05	Client Sample Name: CAE-MW5s, 8/25/2014 12:04:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	39	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	34	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	320	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	24	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	46	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	47	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	740	mg/L	25	25	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.7	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.12	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.098	mg/L	0.15	0.092	EPA-365.4	ND	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:07	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 09:45	RLP	MET-1	2	BXH2743
3	EPA-300.0	08/26/14	08/27/14 07:10	LD1	IC5	5	BXH2870
4	SM-2540C	08/30/14	08/30/14 12:00	MSA	MANUAL	2.500	BXH2977
5	EPA-351.2	09/04/14	09/08/14 10:27	JP1	SC-1	1	BXI0399
6	EPA-350.1	09/08/14	09/09/14 18:50	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:28	TDC	KONE-1	1	BXH2673
8	EPA-365.4	09/04/14	09/08/14 08:44	JP1	SC-1	1	BXI0403

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Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419683-06		Client Sample Name: CAE-MW6d, 8/25/2014 12:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	240	mg/L	0.10	0.016	EPA-200.7	0.029		1
Dissolved Magnesium	92	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	100	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	42	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	590	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	210	mg/L	2.5	0.34	EPA-300.0	1.1	A01	3
Nitrate as N	56	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	1.0	A01	3
Total Dissolved Solids @ 180 C	1300	mg/L	33	33	SM-2540C	ND		4
Total Kjeldahl Nitrogen	3.2	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.056	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.90	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/11/14 21:10	JRG	PE-OP2	1	BXI0527
2	SM-2320B	08/28/14	08/28/14 09:51	RLP	MET-1	2	BXH2743
3	EPA-300.0	08/26/14	08/27/14 07:27	LD1	IC5	5	BXH2870
4	SM-2540C	08/30/14	08/30/14 12:00	MSA	MANUAL	3.333	BXH2977
5	EPA-351.2	09/04/14	09/08/14 10:27	JP1	SC-1	1	BXI0399
6	EPA-350.1	09/08/14	09/09/14 18:51	JP1	SC-1	1	BXI0740
7	EPA-353.2	08/26/14	08/26/14 14:28	TDC	KONE-1	1	BXH2673
8	EPA-365.4	09/04/14	09/08/14 08:44	JP1	SC-1	1	BXI0403

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Del-Tech
645 North Yosemite Ave.
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Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2673						
Nitrite as N	BXH2673-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2743						
Bicarbonate Alkalinity as CaCO3	BXH2743-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2743-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2743-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2870						
Chloride	BXH2870-BLK1	0.21600	mg/L	0.50	0.067	J
Nitrate as N	BXH2870-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2870-BLK1	0.20600	mg/L	1.0	0.18	J
QC Batch ID: BXH2977						
Total Dissolved Solids @ 180 C	BXH2977-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0221						
Total Kjeldahl Nitrogen	BXI0221-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0222						
Total Phosphate	BXI0222-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0399						
Total Kjeldahl Nitrogen	BXI0399-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0403						
Total Phosphate	BXI0403-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0527						
Dissolved Calcium	BXI0527-BLK1	0.028819	mg/L	0.10	0.016	J
Dissolved Magnesium	BXI0527-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0527-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI0527-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI0740						
Ammonia as N	BXI0740-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1531						
Total Kjeldahl Nitrogen	BXI1531-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1532						
Total Phosphate	BXI1532-BLK1	ND	mg/L	0.15	0.092	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2673										
Nitrite as N	BXH2673-BS1	LCS	0.51077	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH2870										
Chloride	BXH2870-BS1	LCS	50.799	50.000	mg/L	102		90 - 110		
Nitrate as N	BXH2870-BS1	LCS	5.0380	5.0000	mg/L	101		90 - 110		
Sulfate	BXH2870-BS1	LCS	101.65	100.00	mg/L	102		90 - 110		
QC Batch ID: BXH2977										
Total Dissolved Solids @ 180 C	BXH2977-BS1	LCS	530.00	586.00	mg/L	90.4		90 - 110		
QC Batch ID: BXI0221										
Total Kjeldahl Nitrogen	BXI0221-BS1	LCS	2.1992	2.0000	mg/L	110		90 - 110		
QC Batch ID: BXI0222										
Total Phosphate	BXI0222-BS1	LCS	3.0742	3.0660	mg/L	100		85 - 115		
QC Batch ID: BXI0399										
Total Kjeldahl Nitrogen	BXI0399-BS1	LCS	1.9952	2.0000	mg/L	99.8		90 - 110		
QC Batch ID: BXI0403										
Total Phosphate	BXI0403-BS1	LCS	2.9926	3.0660	mg/L	97.6		85 - 115		
QC Batch ID: BXI0527										
Dissolved Calcium	BXI0527-BS1	LCS	10.041	10.000	mg/L	100		85 - 115		
Dissolved Magnesium	BXI0527-BS1	LCS	10.429	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXI0527-BS1	LCS	10.194	10.000	mg/L	102		85 - 115		
Dissolved Potassium	BXI0527-BS1	LCS	9.7034	10.000	mg/L	97.0		85 - 115		
QC Batch ID: BXI0740										
Ammonia as N	BXI0740-BS1	LCS	0.97170	1.0000	mg/L	97.2		90 - 110		
QC Batch ID: BXI1531										
Total Kjeldahl Nitrogen	BXI1531-BS1	LCS	2.0645	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI1532										
Total Phosphate	BXI1532-BS1	LCS	3.3498	3.0660	mg/L	109		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2673		Used client sample: Y - Description: CAE-MW1d, 08/25/2014 11:07								
Nitrite as N	DUP	1419683-01	0.092827	0.092061		mg/L	0.8		10	
	MS	1419683-01	0.092827	0.61895	0.52632	mg/L		100		90 - 110
	MSD	1419683-01	0.092827	0.61795	0.52632	mg/L	0.2	99.8	10	90 - 110
QC Batch ID: BXH2743		Used client sample: Y - Description: CAE-MW1d, 08/25/2014 11:07								
Bicarbonate Alkalinity as CaCO3	DUP	1419683-01	1282.2	1292.2		mg/L	0.8		10	
Carbonate Alkalinity as CaCO3	DUP	1419683-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419683-01	ND	ND		mg/L			10	
QC Batch ID: BXH2870		Used client sample: Y - Description: CAE-MW1d, 08/25/2014 11:07								
Chloride	DUP	419683-01RE'	103.88	104.25		mg/L	0.4		10	
	MS	419683-01RE'	103.88	156.31	50.505	mg/L		104		80 - 120
	MSD	419683-01RE'	103.88	156.03	50.505	mg/L	0.2	103	10	80 - 120
Nitrate as N	DUP	419683-01RE'	13.334	13.361		mg/L	0.2		10	
	MS	419683-01RE'	13.334	18.615	5.0505	mg/L		105		80 - 120
	MSD	419683-01RE'	13.334	18.628	5.0505	mg/L	0.1	105	10	80 - 120
Sulfate	DUP	419683-01RE'	41.473	41.610		mg/L	0.3		10	
	MS	419683-01RE'	41.473	156.58	101.01	mg/L		114		80 - 120
	MSD	419683-01RE'	41.473	156.37	101.01	mg/L	0.1	114	10	80 - 120
QC Batch ID: BXH2977		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1419650-04	763.33	803.33		mg/L	5.1		10	
QC Batch ID: BXI0221		Used client sample: Y - Description: FG1-MW8d, 08/22/2014 16:59								
Total Kjeldahl Nitrogen	DUP	1419540-08	0.39970	0.47160		mg/L	16.5		20	
	MS	1419540-08	0.39970	2.2428	2.0000	mg/L		92.2		90 - 110
	MSD	1419540-08	0.39970	2.3006	2.0000	mg/L	2.5	95.0	20	90 - 110
QC Batch ID: BXI0222		Used client sample: Y - Description: FG1-MW8d, 08/22/2014 16:59								
Total Phosphate	DUP	1419540-08	ND	ND		mg/L			20	
	MS	1419540-08	ND	2.9810	3.0660	mg/L		97.2		80 - 120
	MSD	1419540-08	ND	2.9107	3.0660	mg/L	2.4	94.9	20	80 - 120
QC Batch ID: BXI0399		Used client sample: Y - Description: CAE-MW3d, 08/25/2014 10:04								
Total Kjeldahl Nitrogen	DUP	1419683-03	3.5482	4.1496		mg/L	15.6		20	
	MS	1419683-03	3.5482	5.5523	2.0000	mg/L		100		90 - 110
	MSD	1419683-03	3.5482	5.6519	2.0000	mg/L	1.8	105	20	90 - 110
QC Batch ID: BXI0403		Used client sample: Y - Description: CAE-MW3d, 08/25/2014 10:04								
Total Phosphate	DUP	1419683-03	0.18091	ND		mg/L			20	
	MS	1419683-03	0.18091	3.3139	3.0660	mg/L		102		80 - 120
	MSD	1419683-03	0.18091	3.2158	3.0660	mg/L	3.0	99.0	20	80 - 120
QC Batch ID: BXI0527		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI0527		Used client sample: Y - Description: COT-MW9, 08/26/2014 15:06								
Dissolved Calcium	DUP	1419782-01	194.04	191.98		mg/L	1.1		20	
	MS	1419782-01	194.04	200.04	10.204	mg/L		58.9		A03
	MSD	1419782-01	194.04	200.30	10.204	mg/L	0.1	61.4	20	85 - 115 A03
Dissolved Magnesium	DUP	1419782-01	52.430	52.656		mg/L	0.4		20	
	MS	1419782-01	52.430	61.525	10.204	mg/L		89.1		85 - 115
	MSD	1419782-01	52.430	62.375	10.204	mg/L	1.4	97.5	20	85 - 115
Dissolved Sodium	DUP	1419782-01	144.64	142.44		mg/L	1.5		20	
	MS	1419782-01	144.64	151.88	10.204	mg/L		71.0		85 - 115 A03
	MSD	1419782-01	144.64	151.58	10.204	mg/L	0.2	68.1	20	85 - 115 A03
Dissolved Potassium	DUP	1419782-01	4.6541	4.7510		mg/L	2.1		20	
	MS	1419782-01	4.6541	15.149	10.204	mg/L		103		85 - 115
	MSD	1419782-01	4.6541	15.278	10.204	mg/L	0.8	104	20	85 - 115
QC Batch ID: BXI0740		Used client sample: Y - Description: CAE-MW3d, 08/25/2014 10:04								
Ammonia as N	DUP	1419683-03	0.069500	0.058300		mg/L	17.5		10	J,A02
	MS	1419683-03	0.069500	1.1256	1.1111	mg/L		95.0		90 - 110
	MSD	1419683-03	0.069500	1.1193	1.1111	mg/L	0.6	94.5	10	90 - 110
QC Batch ID: BXI1531		Used client sample: Y - Description: GOD-MW5s, 08/29/2014 15:59								
Total Kjeldahl Nitrogen	DUP	1420120-05	0.22370	0.18710		mg/L	17.8		20	J
	MS	1420120-05	0.22370	2.0806	2.0000	mg/L		92.8		90 - 110
	MSD	1420120-05	0.22370	2.1333	2.0000	mg/L	2.5	95.5	20	90 - 110
QC Batch ID: BXI1532		Used client sample: Y - Description: GOD-MW5s, 08/29/2014 15:59								
Total Phosphate	DUP	1420120-05	ND	ND		mg/L			20	
	MS	1420120-05	ND	3.3210	3.0660	mg/L		108		80 - 120
	MSD	1420120-05	ND	3.3661	3.0660	mg/L	1.3	110	20	80 - 120

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:49
Project: Dairy Rep MP - Expanded Suite
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.



Date of Report: 09/15/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Robert Gioletti & Sons Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419344
Invoice ID: B183286

Enclosed are the results of analyses for samples received by the laboratory on 8/20/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Water Analysis (General Chemistry)

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Case Narratives

Case Narrative for Work Order 1419344

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19344

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Project: Dairy Representative Monitoring Program

Site: Robert Gioletti & Sons Dairy 30 - Annel

Samplers Name: Del Tech / Stacy Young

Global ID -

Analysis Requested

From Unfiltered Sample:

Total Kjeldahl Nitrogen,
Total Phosphate (as PO4),
Alkalinity (HCO3, CO3 & OH) as
CaCO3

From Filtered Sample:

Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Filtered Sample:

Ammonia-N, NO3-N,
NO2-N

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1-P6 Unpreserved
1	ROB-MW1s, ROB-MW1d	8-20-14	N/A	GW	x
2	ROB-MW2s, ROB-MW2d	N/A	N/A		x
3	ROB-MW3s, ROB-MW3d				x
4	ROB-MW4s, ROB-MW4d				x
5	ROB-MW5s, ROB-MW5d				x
6	ROB-MW6s, ROB-MW6d	8-20-14	9:36	GW	x
7	ROB-MW7s, ROB-MW7d		10:13		x
8	ROB-MW8s, ROB-MW8d		10:46		x
9	Field Duplicate		N/A	GW	x
10					
11					
12					

Comments

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lohdorff and Scalmani Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhalliwal@lscce.com
- 4) Send bill to Del-Tech, only.

Relinquished by: (Signature)

SAJ 8-20-14 / 1835

Relinquished by: (Signature)

Rob Nickay 8-20-14 1900

Relinquished by: (Signature)

SAJ

Received By:

Rob Nickay 8-20-14 1835

Received By:

SAJ 8-20-14 19:00

Received By:

SAJ 8-20-14 20:55

(A)= Analysis (C)= Container (P)= Preservative

Lab Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-19344

SHIPPING INFORMATION Federal Express UPS Hand Delivery BC Lab Field Service Other

SHIPPING CONTAINER Ice Chest None Box Other

FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals Ice Chest Containers None Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/20/14 2235 Analyst Init: MWI Temperature: (A) 0.2 C (C) 0.4 C

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various test types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Includes a 'SHORT HOLDING TIME' stamp.

Comments: Sample Numbering Completed By: MWI Date/Time: 8/21/14 0040



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419344-01	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 09:36
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419344-02	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 10:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW7d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419344-03	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 10:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW8d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419344-04	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419344-01		Client Sample Name: ROB-MW6d, 8/20/2014 9:36:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	250	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	71	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	170	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	18	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	530	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	250	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	100	mg/L	1.0	0.25	EPA-300.0	ND	A01	4
Sulfate	64	mg/L	5.0	0.90	EPA-300.0	ND	A01	5
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		6
Total Kjeldahl Nitrogen	1.3	mg/L	0.20	0.053	EPA-351.2	ND		7
Ammonia as N	0.056	mg/L	0.10	0.033	EPA-350.1	ND	J	8
Nitrite as N	0.16	mg/L	0.050	0.010	EPA-353.2	ND		9
Total Phosphate	0.93	mg/L	0.15	0.092	EPA-365.4	ND		10

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 21:32	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/25/14 17:12	RLP	MET-1	2	BXH2444
3	EPA-300.0	08/21/14	08/22/14 00:58	TMS	IC2	5	BXH2167
4	EPA-300.0	08/21/14	08/22/14 05:53	TMS	IC2	10	BXH2167
5	EPA-300.0	08/21/14	08/22/14 11:41	TMS	IC2	5	BXH2167
6	SM-2540C	08/26/14	08/26/14 10:30	CAD	MANUAL	10	BXH2565
7	EPA-351.2	09/02/14	09/04/14 11:29	JP1	SC-1	1	BXI0077
8	EPA-350.1	09/04/14	09/05/14 08:04	JP1	SC-1	1	BXI0330
9	EPA-353.2	08/21/14	08/21/14 09:12	TDC	KONE-1	1	BXH2073
10	EPA-365.4	09/02/14	09/04/14 09:10	JP1	SC-1	1	BXI0078

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419344-02		Client Sample Name: ROB-MW7d, 8/20/2014 10:13:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	37	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	270	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	100	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	57	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	53	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	950	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.62	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.75	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 21:48	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/25/14 17:36	RLP	MET-1	2	BXH2445
3	EPA-300.0	08/21/14	08/22/14 01:11	TMS	IC2	5	BXH2167
4	SM-2540C	08/26/14	08/26/14 10:30	CAD	MANUAL	5	BXH2565
5	EPA-351.2	09/02/14	09/04/14 11:25	JP1	SC-1	1	BXI0077
6	EPA-350.1	09/04/14	09/05/14 08:06	JP1	SC-1	1	BXI0330
7	EPA-353.2	08/21/14	08/21/14 09:15	TDC	KONE-1	1	BXH2073
8	EPA-365.4	09/02/14	09/04/14 09:07	JP1	SC-1	1	BXI0078

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419344-03		Client Sample Name: ROB-MW8d, 8/20/2014 10:46:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	260	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	90	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	130	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	8.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	700	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	170	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	61	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	110	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.7	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	1.1	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.028	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.55	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 21:58	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/25/14 17:51	RLP	MET-1	2	BXH2445
3	EPA-300.0	08/21/14	08/22/14 01:24	TMS	IC2	5	BXH2167
4	SM-2540C	08/26/14	08/26/14 10:30	CAD	MANUAL	10	BXH2565
5	EPA-351.2	09/02/14	09/04/14 11:30	JP1	SC-1	1	BXI0077
6	EPA-350.1	09/04/14	09/05/14 08:06	JP1	SC-1	1	BXI0330
7	EPA-353.2	08/21/14	08/21/14 09:15	TDC	KONE-1	1	BXH2073
8	EPA-365.4	09/02/14	09/04/14 09:10	JP1	SC-1	1	BXI0078

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419344-04		Client Sample Name: Field Duplicate #2, 8/20/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	38	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	130	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	270	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	58	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	54	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	920	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.58	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.65	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 22:00	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/25/14 18:02	RLP	MET-1	2	BXH2445
3	EPA-300.0	08/21/14	08/22/14 01:37	TMS	IC2	5	BXH2167
4	SM-2540C	08/26/14	08/26/14 10:30	CAD	MANUAL	5	BXH2565
5	EPA-351.2	09/02/14	09/04/14 11:32	JP1	SC-1	1	BXI0077
6	EPA-350.1	09/04/14	09/05/14 08:08	JP1	SC-1	1	BXI0330
7	EPA-353.2	08/21/14	08/21/14 09:15	TDC	KONE-1	1	BXH2073
8	EPA-365.4	09/02/14	09/04/14 09:12	JP1	SC-1	1	BXI0078

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2073						
Nitrite as N	BXH2073-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2167						
Chloride	BXH2167-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH2167-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2167-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2420						
Dissolved Calcium	BXH2420-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2420-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2420-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2420-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2444						
Bicarbonate Alkalinity as CaCO3	BXH2444-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2444-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2444-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2445						
Bicarbonate Alkalinity as CaCO3	BXH2445-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2445-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2445-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2565						
Total Dissolved Solids @ 180 C	BXH2565-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0077						
Total Kjeldahl Nitrogen	BXI0077-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0078						
Total Phosphate	BXI0078-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0330						
Ammonia as N	BXI0330-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2073										
Nitrite as N	BXH2073-BS1	LCS	0.51339	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXH2167										
Chloride	BXH2167-BS1	LCS	49.066	50.000	mg/L	98.1		90 - 110		
Nitrate as N	BXH2167-BS1	LCS	4.9880	5.0000	mg/L	99.8		90 - 110		
Sulfate	BXH2167-BS1	LCS	99.320	100.00	mg/L	99.3		90 - 110		
QC Batch ID: BXH2420										
Dissolved Calcium	BXH2420-BS1	LCS	9.4460	10.000	mg/L	94.5		85 - 115		
Dissolved Magnesium	BXH2420-BS1	LCS	10.320	10.000	mg/L	103		85 - 115		
Dissolved Sodium	BXH2420-BS1	LCS	10.035	10.000	mg/L	100		85 - 115		
Dissolved Potassium	BXH2420-BS1	LCS	9.7076	10.000	mg/L	97.1		85 - 115		
QC Batch ID: BXH2565										
Total Dissolved Solids @ 180 C	BXH2565-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXI0077										
Total Kjeldahl Nitrogen	BXI0077-BS1	LCS	1.9819	2.0000	mg/L	99.1		90 - 110		
QC Batch ID: BXI0078										
Total Phosphate	BXI0078-BS1	LCS	2.8341	3.0660	mg/L	92.4		85 - 115		
QC Batch ID: BXI0330										
Ammonia as N	BXI0330-BS1	LCS	1.0699	1.0000	mg/L	107		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs: BXH2073, BXH2167, BXH2420, BXH2444, BXH2445, BXH2565.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI0077		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Total Kjeldahl Nitrogen	DUP	1419344-02	0.61700	0.64610		mg/L	4.6		20	
	MS	1419344-02	0.61700	2.3436	2.0000	mg/L		86.3		90 - 110 Q03
	MSD	1419344-02	0.61700	2.4018	2.0000	mg/L	2.5	89.2	20	90 - 110 Q03
QC Batch ID: BXI0078		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Total Phosphate	DUP	1419344-02	0.74999	0.68652		mg/L	8.8		20	
	MS	1419344-02	0.74999	3.7172	3.0660	mg/L		96.8		80 - 120
	MSD	1419344-02	0.74999	3.6175	3.0660	mg/L	2.7	93.5	20	80 - 120
QC Batch ID: BXI0330		Used client sample: Y - Description: MOO-MW8s, 08/20/2014 16:02								
Ammonia as N	DUP	1419343-05	0.040700	0.036400		mg/L	11.2		10	J,A02
	MS	1419343-05	0.040700	1.1780	1.1111	mg/L		102		90 - 110
	MSD	1419343-05	0.040700	1.1649	1.1111	mg/L	1.1	101	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/15/2014 15:47
Project: Dairy Rep MP - Expanded Suite
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/05/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Woods Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419052
Invoice ID: B182418

Enclosed are the results of analyses for samples received by the laboratory on 8/18/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419052

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19052

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Analysis Requested

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	O1, Pe Unpreserved	From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
1		8-18-14	9:36	GW	x	x	x	x
2			11:01		x	x	x	x
3			10:17		x	x	x	x
4	Field Duplicate NA				x	x	x	x
5								
6								
7								
8								
9								
10								
11								
12								

Relinquished by: (Signature) [Signature] 8-18-14 / 1730 Date & Time 8-18-14 18:30

Relinquished by: (Signature) [Signature] 8-18-14 / 1830 Date & Time 8-18-14 18:30

Relinquished by: (Signature) [Signature] 8-18-14 / 2300 Date & Time 8-18-14 2300

Comments:

- Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Luthdorff and Scalmanini Consulting Engineers via email: llavagnino@isce.com, rbryson@isce.com, pdhalwai@isce.com
- Send bill to Del-Tech, only.

* MW-2 Sample time 11:01
Lab - Fielder



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-19052

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers
 Intact? Yes No Intact? Yes No None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/18/14 2320
 Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 C₁ C₂ C₃ C₄ C₅ C₆ C₇ C₈ C₉ C₁₀
 DO Cl₂ EOL MIBAS COT
 CHK BY DISTRIBUTION
 MM

Comments: _____
 Sample Numbering Completed By: MM Date/Time: 8/18/14 @ 2355 IS:WPDocWordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-19052

SHIPPING INFORMATION
Federal Express [] UPS [] Hand Delivery []
BC Lab Field Service [X] Other [] (Specify)

SHIPPING CONTAINER
Ice Chest [X] None [] Box []
Other [] (Specify)

FREE LIQUID
YES [] NO []

Refrigerant: Ice [X] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [X] Comments:
Intact? Yes [] No [] Intact? Yes [] No []

All samples received? Yes [X] No [] All samples containers intact? Yes [X] No [] Description(s) match COC? Yes [X] No []

COC Received [X] YES [] NO []
Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/18/14 2320
Temperature: (A) 0.1 °C / (C) 0.3 °C Analyst Init MW

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments:
Sample Numbering Completed By: MW Date/Time: 8/18/14 @ 2355 (S:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419052-01	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 09:36
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	WOO-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419052-02	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 11:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	WOO-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified
1419052-03	COC Number:	---	Receive Date:	08/18/2014 23:20
	Project Number:	---	Sampling Date:	08/18/2014 10:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	WOO-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419052-01		Client Sample Name: WOO-MW1, 8/18/2014 9:36:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	61	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	87	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	110	mg/L	1.0	0.13	EPA-300.0	0.33	A01	3
Nitrate as N	18	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	61	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	740	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.10	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.27	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:49	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/21/14	08/21/14 18:32	RML	MET-1	2	BXH2005
3	EPA-300.0	08/19/14	08/19/14 20:27	TMS	IC1	2	BXH1847
4	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	5	BXH2244
5	EPA-351.2	08/25/14	08/27/14 10:22	JP1	SC-1	1	BXH2300
6	EPA-350.1	08/27/14	08/28/14 08:25	JP1	SC-1	1	BXH2600
7	EPA-353.2	08/19/14	08/19/14 09:11	TDC	KONE-1	1	BXH1729
8	EPA-365.4	08/25/14	08/27/14 08:43	JP1	SC-1	1	BXH2301

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419052-02	Client Sample Name: WOO-MW2, 8/18/2014 11:01:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	52	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	65	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	370	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	78	mg/L	1.0	0.13	EPA-300.0	0.33	A01	3
Nitrate as N	23	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	35	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	640	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.099	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.70	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:51	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/21/14	08/21/14 18:39	RML	MET-1	2	BXH2005
3	EPA-300.0	08/19/14	08/19/14 20:42	TMS	IC1	2	BXH1847
4	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	5	BXH2244
5	EPA-351.2	08/26/14	08/27/14 11:20	JP1	SC-1	1	BXH2309
6	EPA-350.1	08/27/14	08/28/14 08:29	JP1	SC-1	1	BXH2600
7	EPA-353.2	08/19/14	08/19/14 09:11	TDC	KONE-1	1	BXH1729
8	EPA-365.4	08/26/14	08/27/14 08:50	JP1	SC-1	1	BXH2310

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419052-03		Client Sample Name: WOO-MW3, 8/18/2014 10:17:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	160	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	68	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	440	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	98	mg/L	2.5	0.34	EPA-300.0	0.82	A01	3
Nitrate as N	62	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	64	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	990	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.20	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.27	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/21/14	08/28/14 00:53	JRG	PE-OP1	1	BXH2412
2	SM-2320B	08/21/14	08/21/14 18:45	RML	MET-1	2	BXH2005
3	EPA-300.0	08/19/14	08/20/14 02:22	TMS	IC1	5	BXH1847
4	SM-2540C	08/23/14	08/23/14 09:00	CAD	MANUAL	5	BXH2244
5	EPA-351.2	08/26/14	08/27/14 11:16	JP1	SC-1	1	BXH2309
6	EPA-350.1	08/27/14	08/28/14 08:30	JP1	SC-1	1	BXH2600
7	EPA-353.2	08/19/14	08/19/14 09:11	TDC	KONE-1	1	BXH1729
8	EPA-365.4	08/26/14	08/27/14 08:48	JP1	SC-1	1	BXH2310

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1729						
Nitrite as N	BXH1729-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH1847						
Chloride	BXH1847-BLK1	0.16500	mg/L	0.50	0.067	J
Nitrate as N	BXH1847-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH1847-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2005						
Bicarbonate Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2005-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2244						
Total Dissolved Solids @ 180 C	BXH2244-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2300						
Total Kjeldahl Nitrogen	BXH2300-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2301						
Total Phosphate	BXH2301-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2309						
Total Kjeldahl Nitrogen	BXH2309-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2310						
Total Phosphate	BXH2310-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXH2412						
Dissolved Calcium	BXH2412-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2412-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2412-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2412-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2600						
Ammonia as N	BXH2600-BLK1	0.039200	mg/L	0.10	0.033	J

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH1729										
Nitrite as N	BXH1729-BS1	LCS	0.48589	0.50000	mg/L	97.2		90 - 110		
QC Batch ID: BXH1847										
Chloride	BXH1847-BS1	LCS	51.435	50.000	mg/L	103		90 - 110		
Nitrate as N	BXH1847-BS1	LCS	5.1220	5.0000	mg/L	102		90 - 110		
Sulfate	BXH1847-BS1	LCS	103.37	100.00	mg/L	103		90 - 110		
QC Batch ID: BXH2244										
Total Dissolved Solids @ 180 C	BXH2244-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110		
QC Batch ID: BXH2300										
Total Kjeldahl Nitrogen	BXH2300-BS1	LCS	1.9894	2.0000	mg/L	99.5		90 - 110		
QC Batch ID: BXH2301										
Total Phosphate	BXH2301-BS1	LCS	3.1591	3.0660	mg/L	103		85 - 115		
QC Batch ID: BXH2309										
Total Kjeldahl Nitrogen	BXH2309-BS1	LCS	1.8993	2.0000	mg/L	95.0		90 - 110		
QC Batch ID: BXH2310										
Total Phosphate	BXH2310-BS1	LCS	3.1542	3.0660	mg/L	103		85 - 115		
QC Batch ID: BXH2412										
Dissolved Calcium	BXH2412-BS1	LCS	9.8154	10.000	mg/L	98.2		85 - 115		
Dissolved Magnesium	BXH2412-BS1	LCS	10.219	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXH2412-BS1	LCS	9.6760	10.000	mg/L	96.8		85 - 115		
Dissolved Potassium	BXH2412-BS1	LCS	9.2116	10.000	mg/L	92.1		85 - 115		
QC Batch ID: BXH2600										
Ammonia as N	BXH2600-BS1	LCS	1.0084	1.0000	mg/L	101		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH1729		Used client sample: N								
Nitrite as N	DUP	1419037-01	ND	ND		mg/L			10	
	MS	1419037-01	ND	0.52213	0.52632	mg/L		99.2		90 - 110
	MSD	1419037-01	ND	0.52025	0.52632	mg/L	0.4	98.8	10	90 - 110
QC Batch ID: BXH1847		Used client sample: N								
Chloride	DUP	1419050-01	169.46	169.47		mg/L	0.0		10	
	MS	1419050-01	169.46	273.15	101.01	mg/L		103		80 - 120
	MSD	1419050-01	169.46	273.51	101.01	mg/L	0.1	103	10	80 - 120
Nitrate as N	DUP	1419050-01	0.13800	0.17400		mg/L	23.1		10	J,A02
	MS	1419050-01	0.13800	10.442	10.101	mg/L		102		80 - 120
	MSD	1419050-01	0.13800	10.444	10.101	mg/L	0.0	102	10	80 - 120
Sulfate	DUP	1419050-01	45.288	45.652		mg/L	0.8		10	
	MS	1419050-01	45.288	265.32	202.02	mg/L		109		80 - 120
	MSD	1419050-01	45.288	265.46	202.02	mg/L	0.1	109	10	80 - 120
QC Batch ID: BXH2005		Used client sample: Y - Description: DUR-MW4, 08/18/2014 15:15								
Bicarbonate Alkalinity as CaCO3	DUP	1419051-04	2081.5	2088.8		mg/L	0.4		10	
Carbonate Alkalinity as CaCO3	DUP	1419051-04	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419051-04	ND	ND		mg/L			10	
QC Batch ID: BXH2244		Used client sample: Y - Description: WOO-MW1, 08/18/2014 09:36								
Total Dissolved Solids @ 180 C	DUP	1419052-01	740.00	750.00		mg/L	1.3		10	
QC Batch ID: BXH2300		Used client sample: Y - Description: DUR-MW9, 08/18/2014 17:20								
Total Kjeldahl Nitrogen	DUP	1419051-08	0.62460	0.64620		mg/L	3.4		20	
	MS	1419051-08	0.62460	2.5024	2.0000	mg/L		93.9		90 - 110
	MSD	1419051-08	0.62460	2.6152	2.0000	mg/L	4.4	99.5	20	90 - 110
QC Batch ID: BXH2301		Used client sample: Y - Description: DUR-MW9, 08/18/2014 17:20								
Total Phosphate	DUP	1419051-08	2.2107	2.2589		mg/L	2.2		20	
	MS	1419051-08	2.2107	5.3658	3.0660	mg/L		103		80 - 120
	MSD	1419051-08	2.2107	5.3260	3.0660	mg/L	0.7	102	20	80 - 120
QC Batch ID: BXH2309		Used client sample: Y - Description: WOO-MW3, 08/18/2014 10:17								
Total Kjeldahl Nitrogen	DUP	1419052-03	0.19770	0.15440		mg/L	24.6		20	J,A02
	MS	1419052-03	0.19770	1.8678	2.0000	mg/L		83.5		90 - 110 Q03
	MSD	1419052-03	0.19770	1.7506	2.0000	mg/L	6.5	77.6	20	90 - 110 Q03
QC Batch ID: BXH2310		Used client sample: Y - Description: WOO-MW3, 08/18/2014 10:17								
Total Phosphate	DUP	1419052-03	0.26952	0.23119		mg/L	15.3		20	
	MS	1419052-03	0.26952	3.3621	3.0660	mg/L		101		80 - 120
	MSD	1419052-03	0.26952	3.3446	3.0660	mg/L	0.5	100	20	80 - 120
QC Batch ID: BXH2412		Used client sample: N								

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2412		Used client sample: N								
Dissolved Calcium	DUP	1418837-01	97.313	97.518		mg/L	0.2		20	
	MS	1418837-01	97.313	106.47	10.204	mg/L		89.8		85 - 115
	MSD	1418837-01	97.313	108.04	10.204	mg/L	1.5	105	20	85 - 115
Dissolved Magnesium	DUP	1418837-01	6.9791	6.9715		mg/L	0.1		20	
	MS	1418837-01	6.9791	17.129	10.204	mg/L		99.5		85 - 115
	MSD	1418837-01	6.9791	17.700	10.204	mg/L	3.3	105	20	85 - 115
Dissolved Sodium	DUP	1418837-01	120.28	119.91		mg/L	0.3		20	
	MS	1418837-01	120.28	129.18	10.204	mg/L		87.2		85 - 115
	MSD	1418837-01	120.28	131.54	10.204	mg/L	1.8	110	20	85 - 115
Dissolved Potassium	DUP	1418837-01	1.0969	1.0919		mg/L	0.5		20	
	MS	1418837-01	1.0969	11.483	10.204	mg/L		102		85 - 115
	MSD	1418837-01	1.0969	11.761	10.204	mg/L	2.4	105	20	85 - 115
QC Batch ID: BXH2600		Used client sample: Y - Description: WOO-MW1, 08/18/2014 09:36								
Ammonia as N	DUP	1419052-01	ND	ND		mg/L			10	
	MS	1419052-01	ND	1.2066	1.1111	mg/L		109		90 - 110
	MSD	1419052-01	ND	1.1878	1.1111	mg/L	1.6	107	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/05/2014 11:21
Project: Dairy Rep MP - Expanded Suite
Project Number: Woods Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/11/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Antone L. Gomes & Sons Dairy

BCL Project: Dairy Rep MP - Expanded Suite

BCL Work Order: 1419468

Invoice ID: B182890

Enclosed are the results of analyses for samples received by the laboratory on 8/21/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419468

Samples were filtered through a 0.45 micron filter for requested analyses.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: A-19468

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8-22-14 1320
 Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	AB	AC		A	AB		AC			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 8-22-14 1320 IS:WPDoc\WordPerfect\LAB_DOCS\FORMSISAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-19468

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PC Thermometer ID: 207 Date/Time: 8-21-14 1320
 Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			AB	B		AB				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 8-21-14 0020 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

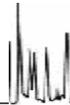
Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419468-01	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 14:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419468-02	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 14:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419468-03	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 15:54
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419468-04	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 15:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419468-05	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 13:19
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419468-06	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 16:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419468-07	COC Number:	---	Receive Date:	08/21/2014 23:20
	Project Number:	---	Sampling Date:	08/21/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FIELD DUPLICATE #8	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419468-01		Client Sample Name: ANT-MW1d, 8/21/2014 2:04:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	100	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	130	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	540	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	170	mg/L	1.0	0.13	EPA-300.0	0.72	A01	3
Nitrate as N	26	mg/L	0.50	0.12	EPA-300.0	0.18	A01	4
Sulfate	130	mg/L	2.0	0.36	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		5
Total Kjeldahl Nitrogen	0.88	mg/L	0.20	0.053	EPA-351.2	ND		6
Ammonia as N	0.049	mg/L	0.10	0.033	EPA-350.1	ND	J	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	1.6	mg/L	0.15	0.092	EPA-365.4	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 00:04	JRG	PE-OP1	1	BXI0524
2	SM-2320B	08/26/14	08/26/14 16:13	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 19:42	LD1	IC1	2	BXH2259
4	EPA-300.0	08/22/14	08/23/14 07:38	LD1	IC1	5	BXH2259
5	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2827
6	EPA-351.2	09/03/14	09/06/14 16:03	JP1	SC-1	1	BXI0166
7	EPA-350.1	09/04/14	09/05/14 12:03	JP1	SC-1	1	BXI0448
8	EPA-353.2	08/22/14	08/22/14 11:58	TDC	KONE-1	1	BXH2142
9	EPA-365.4	09/03/14	09/06/14 14:36	JP1	SC-1	1	BXI0167

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Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419468-02	Client Sample Name: ANT-MW2d, 8/21/2014 2:37:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	84	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	450	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	140	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	17	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.26	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.21	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 00:17	JRG	PE-OP1	1	BXI0524
2	SM-2320B	08/26/14	08/26/14 16:21	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 07:52	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2827
5	EPA-351.2	09/03/14	09/06/14 16:04	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:08	JP1	SC-1	1	BXI0554
7	EPA-353.2	08/22/14	08/22/14 11:58	TDC	KONE-1	1	BXH2142
8	EPA-365.4	09/03/14	09/06/14 14:37	JP1	SC-1	1	BXI0167

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419468-03	Client Sample Name: ANT-MW3d, 8/21/2014 3:54:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	89	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	450	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	150	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	23	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.29	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.095	mg/L	0.15	0.092	EPA-365.4	ND	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 00:20	JRG	PE-OP1	1	BXI0524
2	SM-2320B	08/26/14	08/26/14 16:27	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 11:49	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2827
5	EPA-351.2	09/03/14	09/06/14 16:07	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:14	JP1	SC-1	1	BXI0554
7	EPA-353.2	08/22/14	08/22/14 11:58	TDC	KONE-1	1	BXH2142
8	EPA-365.4	09/03/14	09/06/14 14:39	JP1	SC-1	1	BXI0167

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Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419468-04		Client Sample Name: ANT-MW4d, 8/21/2014 3:24:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	77	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	440	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	12	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	920	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.46	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.5	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 00:30	JRG	PE-OP1	1	BXI0524
2	SM-2320B	08/26/14	08/26/14 16:34	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 12:03	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2827
5	EPA-351.2	09/03/14	09/06/14 16:08	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:14	JP1	SC-1	1	BXI0554
7	EPA-353.2	08/22/14	08/22/14 11:58	TDC	KONE-1	1	BXH2142
8	EPA-365.4	09/03/14	09/06/14 14:40	JP1	SC-1	1	BXI0167

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Del-Tech
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Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419468-05	Client Sample Name: ANT-MW5d, 8/21/2014 1:19:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	100	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	500	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	24	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	120	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.39	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 00:33	JRG	PE-OP1	1	BXI0524
2	SM-2320B	08/26/14	08/26/14 16:41	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 06:53	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2827
5	EPA-351.2	09/03/14	09/06/14 16:09	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:15	JP1	SC-1	1	BXI0554
7	EPA-353.2	08/22/14	08/22/14 11:59	TDC	KONE-1	1	BXH2142
8	EPA-365.4	09/03/14	09/06/14 14:40	JP1	SC-1	1	BXI0167

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419468-06		Client Sample Name: ANT-MW6s, 8/21/2014 4:22:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	69	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	83	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	79	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	400	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	150	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	14	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	150	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.53	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.31	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 00:35	JRG	PE-OP1	1	BXI0524
2	SM-2320B	08/26/14	08/26/14 16:48	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 12:18	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2827
5	EPA-351.2	09/03/14	09/06/14 16:10	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:16	JP1	SC-1	1	BXI0554
7	EPA-353.2	08/22/14	08/22/14 12:00	TDC	KONE-1	1	BXH2142
8	EPA-365.4	09/03/14	09/06/14 14:41	JP1	SC-1	1	BXI0167

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Del-Tech
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Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419468-07		Client Sample Name: FIELD DUPLICATE #8, 8/21/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	100	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	500	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	160	mg/L	2.5	0.34	EPA-300.0	1.8	A01	3
Nitrate as N	24	mg/L	0.50	0.12	EPA-300.0	0.18	A01	3
Sulfate	120	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.46	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/28/14	09/08/14 00:38	JRG	PE-OP1	1	BXI0524
2	SM-2320B	08/26/14	08/26/14 16:54	RLP	MET-1	2	BXH2454
3	EPA-300.0	08/22/14	08/23/14 12:33	LD1	IC1	5	BXH2259
4	SM-2540C	08/28/14	08/28/14 13:00	CAD	MANUAL	5	BXH2827
5	EPA-351.2	09/03/14	09/06/14 16:11	JP1	SC-1	1	BXI0166
6	EPA-350.1	09/05/14	09/05/14 16:17	JP1	SC-1	1	BXI0554
7	EPA-353.2	08/22/14	08/22/14 12:00	TDC	KONE-1	1	BXH2142
8	EPA-365.4	09/03/14	09/06/14 14:41	JP1	SC-1	1	BXI0167

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2142						
Nitrite as N	BXH2142-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2259						
Chloride	BXH2259-BLK1	0.35800	mg/L	0.50	0.067	J
Nitrate as N	BXH2259-BLK1	0.037000	mg/L	0.10	0.025	J
Sulfate	BXH2259-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2454						
Bicarbonate Alkalinity as CaCO3	BXH2454-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXH2454-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXH2454-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2827						
Total Dissolved Solids @ 180 C	BXH2827-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0166						
Total Kjeldahl Nitrogen	BXI0166-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0167						
Total Phosphate	BXI0167-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0448						
Ammonia as N	BXI0448-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0524						
Dissolved Calcium	BXI0524-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI0524-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI0524-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI0524-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI0554						
Ammonia as N	BXI0554-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2142										
Nitrite as N	BXH2142-BS1	LCS	0.51366	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXH2259										
Chloride	BXH2259-BS1	LCS	49.578	50.000	mg/L	99.2		90 - 110		
Nitrate as N	BXH2259-BS1	LCS	5.0380	5.0000	mg/L	101		90 - 110		
Sulfate	BXH2259-BS1	LCS	99.820	100.00	mg/L	99.8		90 - 110		
QC Batch ID: BXH2827										
Total Dissolved Solids @ 180 C	BXH2827-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXI0166										
Total Kjeldahl Nitrogen	BXI0166-BS1	LCS	2.0636	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI0167										
Total Phosphate	BXI0167-BS1	LCS	2.9442	3.0660	mg/L	96.0		85 - 115		
QC Batch ID: BXI0448										
Ammonia as N	BXI0448-BS1	LCS	0.98950	1.0000	mg/L	99.0		90 - 110		
QC Batch ID: BXI0524										
Dissolved Calcium	BXI0524-BS1	LCS	9.8790	10.000	mg/L	98.8		85 - 115		
Dissolved Magnesium	BXI0524-BS1	LCS	10.269	10.000	mg/L	103		85 - 115		
Dissolved Sodium	BXI0524-BS1	LCS	9.8997	10.000	mg/L	99.0		85 - 115		
Dissolved Potassium	BXI0524-BS1	LCS	9.3598	10.000	mg/L	93.6		85 - 115		
QC Batch ID: BXI0554										
Ammonia as N	BXI0554-BS1	LCS	1.0242	1.0000	mg/L	102		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes multiple QC batches (BXH2142, BXH2259, BXH2454, BXH2827, BXI0166, BXI0167, BXI0448, BXI0524) and their respective test results.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI0524		Used client sample: Y - Description: ANT-MW1d, 08/21/2014 14:04								
Dissolved Magnesium	DUP	1419468-01	101.97	102.30		mg/L	0.3		20	
	MS	1419468-01	101.97	111.42	10.204	mg/L		92.6		85 - 115
	MSD	1419468-01	101.97	111.32	10.204	mg/L	0.1	91.7	20	85 - 115
Dissolved Sodium	DUP	1419468-01	127.49	126.96		mg/L	0.4		20	
	MS	1419468-01	127.49	137.31	10.204	mg/L		96.2		85 - 115
	MSD	1419468-01	127.49	132.63	10.204	mg/L	3.5	50.4	20	85 - 115 A03
Dissolved Potassium	DUP	1419468-01	4.3906	4.3816		mg/L	0.2		20	
	MS	1419468-01	4.3906	14.852	10.204	mg/L		103		85 - 115
	MSD	1419468-01	4.3906	14.168	10.204	mg/L	4.7	95.8	20	85 - 115
QC Batch ID: BXI0554		Used client sample: Y - Description: ANT-MW2d, 08/21/2014 14:37								
Ammonia as N	DUP	1419468-02	ND	ND		mg/L			10	
	MS	1419468-02	ND	1.1096	1.1111	mg/L		99.9		90 - 110
	MSD	1419468-02	ND	1.1651	1.1111	mg/L	4.9	105	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/11/2014 9:01
Project: Dairy Rep MP - Expanded Suite
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.



Date of Report: 09/18/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Correia Family Dairy - Annual
 BCL Project: Dairy Rep MP - Expanded Suite
 BCL Work Order: 1420049
 Invoice ID: B183615

Enclosed are the results of analyses for samples received by the laboratory on 8/28/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1420049

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Expanded Constituent Suite					
Name:	Del-Tech	Project:	Daily Representative Monitoring Program	From Filtered Sample:	Na, K, Mg, Ca, Cl, SO ₄ (as SO ₄), Total Dissolved Solids
Address:	645 N Yosemite	Site:	Correia Family Dairy	From Filtered Sample:	Ammonia-N, NO ₂ -N, NO ₃ -N
City:	Oakdale	Sampler Name:	39 Annual	From Unfiltered Sample:	Total Kjeldahl Nitrogen, Total Phosphate (as PO ₄), Alkalinity (HCO ₃ , CO ₃ & OH), CaCO ₃
State:	95381	Global ID -	Del Tech / Steezy Jones		
Attn:	Don Light				
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt/Pc Unpreserved
1	COR-MW1s, COR-MW2s, COR-MW3s, COR-MW4s, COR-MW5s	8-28-14	12:58	SW	x
2	COR-MW1s, COR-MW2s, COR-MW3s, COR-MW4s, COR-MW5s		14:24		x
3	COR-MW1s, COR-MW2s, COR-MW3s, COR-MW4s, COR-MW5s		15:47		x
4	COR-MW1s, COR-MW2s, COR-MW3s, COR-MW4s, COR-MW5s		13:25		x
5	COR-MW1s, COR-MW2s, COR-MW3s, COR-MW4s, COR-MW5s		13:30		x
6	Field Duplicate				x
7					
8					
9					
10					
11					

Relinquished by: (Signature)	8-28-14 / 1745	Received By:	8-28-14 17:45
Relinquished by: (Signature)	8-28-14 18:15	Received By:	8-28-14 18:15
Relinquished by: (Signature)		Received By:	8-28-14 20:05

Comments

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lohdorff and Scalmanini Consulting Engineers via email: llavagnino@lisce.com, rbryson@lisce.com, pdhalwal@lisce.com
- Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

Lab-Felter

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 2

Submission #: 1420049

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/21/14 2215
 Temperature: (A) 0.1 °C / (C) 0.3 °C Analyst Init: MW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A,B	B		A,B	A,B					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 8/29/14 0809 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-20049

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8/28/14 22:15
 Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: MW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		A	A, B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: BSO Date/Time: 8/29/14 08:07 IS:WPDocWordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1420049-01	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 12:58
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW1s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420049-02	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 14:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW2s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420049-03	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 14:47
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW3s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420049-04	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 13:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW4s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420049-05	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 13:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW5s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420049-01		Client Sample Name: COR-MW1s, 8/28/2014 12:58:00PM, Del-Tech/ Stacy						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	61	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	58	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	550	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	690	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	380	mg/L	5.0	0.67	EPA-300.0	0.87	A01	3
Nitrate as N	1.1	mg/L	1.0	0.25	EPA-300.0	ND	A10	3
Sulfate	210	mg/L	10	1.8	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.60	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.23	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/14/14 23:28	JRG	PE-OP2	1	BXI1267
2	SM-2320B	09/04/14	09/04/14 13:34	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 06:02	LD1	IC2	10	BXI0040
4	SM-2540C	09/03/14	09/03/14 21:05	NW1	MANUAL	10	BXI0270
5	EPA-351.2	09/12/14	09/15/14 09:35	JP1	SC-1	1	BXI1172
6	EPA-350.1	09/12/14	09/15/14 11:55	JP1	SC-1	1	BXI1229
7	EPA-353.2	08/29/14	08/29/14 15:05	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 08:29	JP1	SC-1	1	BXI1173

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420049-02	Client Sample Name: COR-MW2s, 8/28/2014 2:21:00PM, Del-Tech/ Stacy
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	59	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	170	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	410	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	170	mg/L	2.5	0.34	EPA-300.0	0.44	A01	3
Nitrate as N	3.6	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	140	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.068	mg/L	0.20	0.053	EPA-351.2	ND	J	5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.10	mg/L	0.15	0.092	EPA-365.4	ND	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/14/14 23:31	JRG	PE-OP2	1	BXI1267
2	SM-2320B	09/04/14	09/04/14 13:43	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 06:54	LD1	IC2	5	BXI0040
4	SM-2540C	09/03/14	09/03/14 21:05	NW1	MANUAL	5	BXI0270
5	EPA-351.2	09/12/14	09/15/14 09:39	JP1	SC-1	1	BXI1172
6	EPA-350.1	09/12/14	09/15/14 11:58	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:10	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 08:31	JP1	SC-1	1	BXI1173

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420049-03	Client Sample Name: COR-MW3s, 8/28/2014 2:47:00PM, Del-Tech/ Stacy
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	93	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	51	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	170	mg/L	0.50	0.051	EPA-200.7	0.061		1
Dissolved Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	420	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	170	mg/L	2.5	0.34	EPA-300.0	0.44	A01	3
Nitrate as N	1.2	mg/L	0.50	0.12	EPA-300.0	ND	A10	3
Sulfate	130	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	980	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.15	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:29	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 13:51	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 07:12	LD1	IC2	5	BXI0040
4	SM-2540C	09/03/14	09/03/14 21:05	NW1	MANUAL	5	BXI0270
5	EPA-351.2	09/12/14	09/15/14 09:40	JP1	SC-1	1	BXI1172
6	EPA-350.1	09/12/14	09/15/14 12:04	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:10	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 08:32	JP1	SC-1	1	BXI1173

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420049-04	Client Sample Name: COR-MW4s, 8/28/2014 1:55:00PM, Del-Tech/ Stacy
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	99	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	61	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	210	mg/L	0.50	0.051	EPA-200.7	0.061		1
Dissolved Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	450	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	230	mg/L	2.5	0.34	EPA-300.0	0.44	A01	3
Nitrate as N	2.6	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	160	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:53	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 13:58	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 06:19	LD1	IC2	5	BXI0040
4	SM-2540C	09/03/14	09/03/14 21:05	NW1	MANUAL	5	BXI0270
5	EPA-351.2	09/12/14	09/15/14 09:42	JP1	SC-1	1	BXI1172
6	EPA-350.1	09/12/14	09/15/14 12:04	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:10	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 08:34	JP1	SC-1	1	BXI1173

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420049-05		Client Sample Name: COR-MW5s, 8/28/2014 1:30:00PM, Del-Tech/ Stacy						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	55	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	200	mg/L	0.50	0.051	EPA-200.7	0.061		1
Dissolved Potassium	5.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	460	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	240	mg/L	2.5	0.34	EPA-300.0	0.44	A01	3
Nitrate as N	1.2	mg/L	0.50	0.12	EPA-300.0	ND	A10	3
Sulfate	140	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	0.032	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:56	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 14:06	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 06:37	LD1	IC2	5	BXI0040
4	SM-2540C	09/03/14	09/03/14 21:05	NW1	MANUAL	5	BXI0270
5	EPA-351.2	09/12/14	09/15/14 09:44	JP1	SC-1	1	BXI1172
6	EPA-350.1	09/12/14	09/15/14 12:06	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:10	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 08:35	JP1	SC-1	1	BXI1173

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2950						
Nitrite as N	BXH2950-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXI0040						
Chloride	BXI0040-BLK1	0.087000	mg/L	0.50	0.067	J
Nitrate as N	BXI0040-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXI0040-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXI0183						
Bicarbonate Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0270						
Total Dissolved Solids @ 180 C	BXI0270-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI1172						
Total Kjeldahl Nitrogen	BXI1172-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1173						
Total Phosphate	BXI1173-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI1229						
Ammonia as N	BXI1229-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1230						
Ammonia as N	BXI1230-BLK1	0.039400	mg/L	0.10	0.033	J
QC Batch ID: BXI1267						
Dissolved Calcium	BXI1267-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI1267-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1267-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI1267-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI1268						
Dissolved Calcium	BXI1268-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI1268-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1268-BLK1	0.061131	mg/L	0.50	0.051	J
Dissolved Potassium	BXI1268-BLK1	ND	mg/L	1.0	0.10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2950										
Nitrite as N	BXH2950-BS1	LCS	0.50412	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXI0040										
Chloride	BXI0040-BS1	LCS	50.330	50.000	mg/L	101		90 - 110		
Nitrate as N	BXI0040-BS1	LCS	4.9750	5.0000	mg/L	99.5		90 - 110		
Sulfate	BXI0040-BS1	LCS	100.41	100.00	mg/L	100		90 - 110		
QC Batch ID: BXI0270										
Total Dissolved Solids @ 180 C	BXI0270-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXI1172										
Total Kjeldahl Nitrogen	BXI1172-BS1	LCS	2.1702	2.0000	mg/L	109		90 - 110		
QC Batch ID: BXI1173										
Total Phosphate	BXI1173-BS1	LCS	3.2232	3.0660	mg/L	105		85 - 115		
QC Batch ID: BXI1229										
Ammonia as N	BXI1229-BS1	LCS	0.96890	1.0000	mg/L	96.9		90 - 110		
QC Batch ID: BXI1230										
Ammonia as N	BXI1230-BS1	LCS	0.95170	1.0000	mg/L	95.2		90 - 110		
QC Batch ID: BXI1267										
Dissolved Calcium	BXI1267-BS1	LCS	9.8614	10.000	mg/L	98.6		85 - 115		
Dissolved Magnesium	BXI1267-BS1	LCS	10.415	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXI1267-BS1	LCS	9.9801	10.000	mg/L	99.8		85 - 115		
Dissolved Potassium	BXI1267-BS1	LCS	9.4418	10.000	mg/L	94.4		85 - 115		
QC Batch ID: BXI1268										
Dissolved Calcium	BXI1268-BS1	LCS	9.7848	10.000	mg/L	97.8		85 - 115		
Dissolved Magnesium	BXI1268-BS1	LCS	10.350	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXI1268-BS1	LCS	9.6583	10.000	mg/L	96.6		85 - 115		
Dissolved Potassium	BXI1268-BS1	LCS	9.5030	10.000	mg/L	95.0		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2950		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Nitrite as N	DUP	1420048-01	ND	ND		mg/L			10	
	MS	1420048-01	ND	0.55293	0.52632	mg/L		105		90 - 110
	MSD	1420048-01	ND	0.55411	0.52632	mg/L	0.2	105	10	90 - 110
QC Batch ID: BXI0040		Used client sample: N								
Chloride	DUP	1420028-01	ND	ND		mg/L			10	
	MS	1420028-01	ND	49.908	50.505	mg/L		98.8		80 - 120
	MSD	1420028-01	ND	50.126	50.505	mg/L	0.4	99.2	10	80 - 120
Nitrate as N	DUP	1420028-01	ND	ND		mg/L			10	
	MS	1420028-01	ND	4.9384	5.0505	mg/L		97.8		80 - 120
	MSD	1420028-01	ND	4.9778	5.0505	mg/L	0.8	98.6	10	80 - 120
Sulfate	DUP	1420028-01	ND	ND		mg/L			10	
	MS	1420028-01	ND	99.511	101.01	mg/L		98.5		80 - 120
	MSD	1420028-01	ND	99.764	101.01	mg/L	0.3	98.8	10	80 - 120
QC Batch ID: BXI0183		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Bicarbonate Alkalinity as CaCO3	DUP	1420048-01	788.96	793.22		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1420048-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1420048-01	ND	ND		mg/L			10	
QC Batch ID: BXI0270		Used client sample: Y - Description: COR-MW1s, 08/28/2014 12:58								
Total Dissolved Solids @ 180 C	DUP	1420049-01	1730.0	1690.0		mg/L	2.3		10	
QC Batch ID: BXI1172		Used client sample: Y - Description: COR-MW1s, 08/28/2014 12:58								
Total Kjeldahl Nitrogen	DUP	1420049-01	0.60020	0.65350		mg/L	8.5		20	
	MS	1420049-01	0.60020	2.7255	2.0000	mg/L		106		90 - 110
	MSD	1420049-01	0.60020	2.6191	2.0000	mg/L	4.0	101	20	90 - 110
QC Batch ID: BXI1173		Used client sample: Y - Description: COR-MW1s, 08/28/2014 12:58								
Total Phosphate	DUP	1420049-01	0.22690	0.19685		mg/L	14.2		20	
	MS	1420049-01	0.22690	3.3750	3.0660	mg/L		103		80 - 120
	MSD	1420049-01	0.22690	3.5795	3.0660	mg/L	5.9	109	20	80 - 120
QC Batch ID: BXI1229		Used client sample: N								
Ammonia as N	DUP	1420021-02	ND	0.033300		mg/L			10	J
	MS	1420021-02	ND	1.1270	1.1111	mg/L		101		90 - 110
	MSD	1420021-02	ND	1.1124	1.1111	mg/L	1.3	100	10	90 - 110
QC Batch ID: BXI1230		Used client sample: Y - Description: COR-MW2s, 08/28/2014 14:21								
Ammonia as N	DUP	1420049-02	ND	ND		mg/L			10	
	MS	1420049-02	ND	1.1461	1.1111	mg/L		103		90 - 110
	MSD	1420049-02	ND	1.1191	1.1111	mg/L	2.4	101	10	90 - 110
QC Batch ID: BXI1267		Used client sample: N								

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals	
								Percent Recovery	Percent Recovery		
QC Batch ID: BXI1267		Used client sample: N									
Dissolved Calcium	DUP	1420038-01	46.710	46.128		mg/L	1.3		20		
	MS	1420038-01	46.710	54.812	10.204	mg/L		79.4		A03	
	MSD	1420038-01	46.710	55.308	10.204	mg/L	0.9	84.3	20	85 - 115	A03
Dissolved Magnesium	DUP	1420038-01	19.366	19.152		mg/L	1.1		20		
	MS	1420038-01	19.366	29.701	10.204	mg/L		101		85 - 115	
	MSD	1420038-01	19.366	29.744	10.204	mg/L	0.1	102	20	85 - 115	
Dissolved Sodium	DUP	1420038-01	165.74	162.31		mg/L	2.1		20		
	MS	1420038-01	165.74	168.57	10.204	mg/L		27.7		85 - 115	A03
	MSD	1420038-01	165.74	168.83	10.204	mg/L	0.2	30.2	20	85 - 115	A03
Dissolved Potassium	DUP	1420038-01	12.567	12.626		mg/L	0.5		20		
	MS	1420038-01	12.567	22.895	10.204	mg/L		101		85 - 115	
	MSD	1420038-01	12.567	23.017	10.204	mg/L	0.5	102	20	85 - 115	

QC Batch ID: BXI1268		Used client sample: Y - Description: TON-MW1d, 08/28/2014 11:35									
Dissolved Calcium	DUP	1420050-01	100.53	100.32		mg/L	0.2		20		
	MS	1420050-01	100.53	108.13	10.204	mg/L		74.5		85 - 115	A03
	MSD	1420050-01	100.53	107.28	10.204	mg/L	0.8	66.2	20	85 - 115	A03
Dissolved Magnesium	DUP	1420050-01	141.17	141.04		mg/L	0.1		20		
	MS	1420050-01	141.17	148.78	10.204	mg/L		74.6		85 - 115	A03
	MSD	1420050-01	141.17	148.12	10.204	mg/L	0.4	68.0	20	85 - 115	A03
Dissolved Sodium	DUP	1420050-01	333.34	332.86		mg/L	0.1		20		
	MS	1420050-01	333.34	337.10	10.204	mg/L		36.9		85 - 115	A03
	MSD	1420050-01	333.34	337.63	10.204	mg/L	0.2	42.1	20	85 - 115	A03
Dissolved Potassium	DUP	1420050-01	114.59	114.68		mg/L	0.1		20		
	MS	1420050-01	114.59	122.50	10.204	mg/L		77.6		85 - 115	A03
	MSD	1420050-01	114.59	121.44	10.204	mg/L	0.9	67.2	20	85 - 115	A03

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 13:30
Project: Dairy Rep MP - Expanded Suite
Project Number: Correia Family Dairy - Annual
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.



Date of Report: 09/17/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Frank J. Gomes Dairy #2
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419924
Invoice ID: B183537

Enclosed are the results of analyses for samples received by the laboratory on 8/27/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1419924

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19924

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Analysis Requested

Report to:

Name: Del-Tech		Expanded Constituent Suite						
Address: 645 N Yosemite		Project: Dairy Representative Monitoring Program						
City: Oakdale		Site: Frank J. Gomes Dairy #2 39-Annual						
State: 95361		Samplers Name: Del Tech / Stacy Jones						
CA		Global ID:						
Attn: Don Light								
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1, Pe Unpreserved	From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3
-1	FG2-MW1s, FG2-MW1d	8-27-14	14:02	GW	x	x	x	x
-2	FG2-MW2s, FG2-MW2d		13:06		x	x	x	x
-3	FG2-MW3s, FG2-MW3d		13:31		x	x	x	x
-4	FG2-MW4s, FG2-MW4d		14:44		x	x	x	x
-5	FG2-MW5s, FG2-MW5d		15:07		x	x	x	x
6	Field Duplicate		NA		x	x	x	x
7								
8								
9								
10								
11								
12								

Relinquished by: (Signature) SAG 8-27-14/1825	Received By: KAW Dickey 8-27-14/1825	Date & Time
Relinquished by: (Signature) KAW Dickey 8-27-14 1850	Received By: (Signature)	Date & Time 8/27/14 18:50
Relinquished by: (Signature) (Signature)	Received By: SAG	Date & Time 8/27/14 1850

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lundorf and Scalmanini Consulting Engineers via email: llavagnino@lisce.com, rlryson@lisce.com, pdhalliwal@lisce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

Lab Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 2

Submission #: 14-19924

SHIPPING INFORMATION Federal Express [] UPS [] Hand Delivery [] BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER Ice Chest [x] None [] Box [] Other [] (Specify) _____

FREE LIQUID YES [] NO []

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments: _____

Custody Seals Ice Chest [] Containers [] None [x] Intact? Yes [] No []

All samples received? Yes [x] No [] All samples containers intact? Yes [x] No [] Description(s) match COC? Yes [x] No []

COC Received YES [x] NO []

Emissivity: 0.97 Container: Pc Thermometer ID: 207 Temperature: (A) 0.1 °C / (C) 0.3 °C

Date/Time 8/29/14 2:50 Analyst Init MM

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Includes a large vertical stamp in the center.

Comments: Sample Numbering Completed By: MM Date/Time: 8/28/14 0020 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-19924

SHIPPING INFORMATION Federal Express [] UPS [] Hand Delivery [] BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER Ice Chest [x] None [] Box [] Other [] (Specify) _____

FREE LIQUID YES [] NO []

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments: _____

Custody Seals Ice Chest [] Containers [] None [x] Intact? Yes [] No [] Intact? Yes [] No [] Comments: _____

All samples received? Yes [x] No [] All samples containers intact? Yes [x] No [] Description(s) match COC? Yes [x] No []

COC Received YES [x] NO [] Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/28/14 2:50 Analyst Init: JMM

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: _____ Date/Time: 8/28/14 @ 2:00:00 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16] Sample Numbering Completed By: JMM A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419924-01	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 14:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1419924-02	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 13:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1419924-03	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 13:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1419924-04	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 14:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1419924-05	COC Number:	---	Receive Date:	08/27/2014 21:50
	Project Number:	---	Sampling Date:	08/27/2014 15:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419924-01	Client Sample Name: FG2-MW1s, 8/27/2014 2:02:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	350	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	140	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	520	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	510	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	470	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	10	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	1200	mg/L	10	1.8	EPA-300.0	3.1	A01	3
Total Dissolved Solids @ 180 C	3200	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.71	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.045	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.020	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 01:59	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 07:57	RML	MET-1	2	BXI0180
3	EPA-300.0	08/28/14	08/29/14 05:05	TMS	IC1	10	BXH2956
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	20	BXI0268
5	EPA-351.2	09/11/14	09/11/14 17:33	JP1	SC-1	1	BXI1040
6	EPA-350.1	09/11/14	09/11/14 12:02	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 09:57	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/11/14	09/11/14 16:20	JP1	SC-1	1	BXI1041

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419924-02		Client Sample Name: FG2-MW2s, 8/27/2014 1:06:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	170	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	180	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	340	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	13	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	570	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	290	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	10	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	780	mg/L	10	1.8	EPA-300.0	3.1	A01	3
Total Dissolved Solids @ 180 C	2300	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.67	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.032	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.25	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 02:02	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 08:05	RML	MET-1	2	BXI0180
3	EPA-300.0	08/28/14	08/29/14 04:35	TMS	IC1	10	BXH2956
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	10	BXI0268
5	EPA-351.2	09/11/14	09/11/14 17:35	JP1	SC-1	1	BXI1040
6	EPA-350.1	09/11/14	09/11/14 12:03	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 10:04	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/11/14	09/11/14 16:22	JP1	SC-1	1	BXI1041

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419924-03	Client Sample Name: FG2-MW3s, 8/27/2014 1:31:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	230	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	350	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	640	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	660	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	610	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	11	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	2000	mg/L	10	1.8	EPA-300.0	3.1	A01	3
Total Dissolved Solids @ 180 C	4600	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.65	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.059	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 02:04	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 08:32	RML	MET-1	2	BXI0181
3	EPA-300.0	08/28/14	08/29/14 04:50	TMS	IC1	10	BXH2956
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	20	BXI0268
5	EPA-351.2	09/11/14	09/11/14 17:36	JP1	SC-1	1	BXI1040
6	EPA-350.1	09/11/14	09/11/14 12:04	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 10:04	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/11/14	09/11/14 16:23	JP1	SC-1	1	BXI1041

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419924-04		Client Sample Name: FG2-MW4s, 8/27/2014 2:44:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	150	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	170	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	540	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	690	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	12	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	410	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	21	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	860	mg/L	10	1.8	EPA-300.0	3.1	A01	3
Total Dissolved Solids @ 180 C	2800	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.88	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.018	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/12/14 02:07	JRG	PE-OP2	1	BXI1148
2	SM-2320B	09/03/14	09/04/14 08:49	RML	MET-1	2	BXI0181
3	EPA-300.0	08/28/14	08/29/14 05:19	TMS	IC1	10	BXH2956
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	10	BXI0268
5	EPA-351.2	09/11/14	09/11/14 17:37	JP1	SC-1	1	BXI1040
6	EPA-350.1	09/11/14	09/11/14 12:04	JP1	SC-1	1	BXI1045
7	EPA-353.2	08/28/14	08/28/14 10:04	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/11/14	09/11/14 16:23	JP1	SC-1	1	BXI1041

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419924-05	Client Sample Name: FG2-MW5s, 8/27/2014 3:07:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	180	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	400	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	780	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	270	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	12	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	470	mg/L	10	1.8	EPA-300.0	3.1	A01	3
Total Dissolved Solids @ 180 C	2100	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.92	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	0.016	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.16	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/02/14	09/14/14 22:59	JRG	PE-OP2	1	BXI1267
2	SM-2320B	09/03/14	09/04/14 08:59	RML	MET-1	2	BXI0181
3	EPA-300.0	08/28/14	08/29/14 05:34	TMS	IC1	10	BXH2956
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	10	BXI0268
5	EPA-351.2	09/11/14	09/11/14 17:38	JP1	SC-1	1	BXI1040
6	EPA-350.1	09/11/14	09/11/14 12:08	JP1	SC-1	1	BXI1046
7	EPA-353.2	08/28/14	08/28/14 10:04	TDC	KONE-1	1	BXH2921
8	EPA-365.4	09/11/14	09/11/14 16:24	JP1	SC-1	1	BXI1041

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2921						
Nitrite as N	BXH2921-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2956						
Chloride	BXH2956-BLK1	0.18300	mg/L	0.50	0.067	J
Nitrate as N	BXH2956-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2956-BLK1	0.30600	mg/L	1.0	0.18	J
QC Batch ID: BXI0180						
Bicarbonate Alkalinity as CaCO3	BXI0180-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0180-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0180-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0181						
Bicarbonate Alkalinity as CaCO3	BXI0181-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0181-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0181-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0268						
Total Dissolved Solids @ 180 C	BXI0268-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI1040						
Total Kjeldahl Nitrogen	BXI1040-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1041						
Total Phosphate	BXI1041-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI1045						
Ammonia as N	BXI1045-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1046						
Ammonia as N	BXI1046-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1148						
Dissolved Calcium	BXI1148-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI1148-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1148-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI1148-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI1267						
Dissolved Calcium	BXI1267-BLK1	ND	mg/L	0.10	0.016	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI1267						
Dissolved Magnesium	BXI1267-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1267-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI1267-BLK1	ND	mg/L	1.0	0.10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2921										
Nitrite as N	BXH2921-BS1	LCS	0.49194	0.50000	mg/L	98.4		90 - 110		
QC Batch ID: BXH2956										
Chloride	BXH2956-BS1	LCS	50.709	50.000	mg/L	101		90 - 110		
Nitrate as N	BXH2956-BS1	LCS	5.0580	5.0000	mg/L	101		90 - 110		
Sulfate	BXH2956-BS1	LCS	100.72	100.00	mg/L	101		90 - 110		
QC Batch ID: BXI0268										
Total Dissolved Solids @ 180 C	BXI0268-BS1	LCS	545.00	586.00	mg/L	93.0		90 - 110		
QC Batch ID: BXI1040										
Total Kjeldahl Nitrogen	BXI1040-BS1	LCS	2.0365	2.0000	mg/L	102		90 - 110		
QC Batch ID: BXI1041										
Total Phosphate	BXI1041-BS1	LCS	3.1116	3.0660	mg/L	101		85 - 115		
QC Batch ID: BXI1045										
Ammonia as N	BXI1045-BS1	LCS	1.0441	1.0000	mg/L	104		90 - 110		
QC Batch ID: BXI1046										
Ammonia as N	BXI1046-BS1	LCS	1.0429	1.0000	mg/L	104		90 - 110		
QC Batch ID: BXI1148										
Dissolved Calcium	BXI1148-BS1	LCS	9.8791	10.000	mg/L	98.8		85 - 115		
Dissolved Magnesium	BXI1148-BS1	LCS	10.141	10.000	mg/L	101		85 - 115		
Dissolved Sodium	BXI1148-BS1	LCS	10.097	10.000	mg/L	101		85 - 115		
Dissolved Potassium	BXI1148-BS1	LCS	9.6277	10.000	mg/L	96.3		85 - 115		
QC Batch ID: BXI1267										
Dissolved Calcium	BXI1267-BS1	LCS	9.8614	10.000	mg/L	98.6		85 - 115		
Dissolved Magnesium	BXI1267-BS1	LCS	10.415	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXI1267-BS1	LCS	9.9801	10.000	mg/L	99.8		85 - 115		
Dissolved Potassium	BXI1267-BS1	LCS	9.4418	10.000	mg/L	94.4		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXH2921		Used client sample: Y - Description: SAN-MW6s, 08/27/2014 11:09								
Nitrite as N	DUP	1419923-04	ND	ND		mg/L			10	
	MS	1419923-04	ND	0.54101	0.52632	mg/L		103		90 - 110
	MSD	1419923-04	ND	0.53723	0.52632	mg/L	0.7	102	10	90 - 110
QC Batch ID: BXH2956		Used client sample: N								
Chloride	DUP	419905-03RE	835.00	836.88		mg/L	0.2		10	
	MS	419905-03RE	835.00	1910.0	1010.1	mg/L		106		80 - 120
	MSD	419905-03RE	835.00	1913.3	1010.1	mg/L	0.2	107	10	80 - 120
Nitrate as N	DUP	419905-03RE	53.080	53.100		mg/L	0.0		10	
	MS	419905-03RE	53.080	155.47	101.01	mg/L		101		80 - 120
	MSD	419905-03RE	53.080	155.72	101.01	mg/L	0.2	102	10	80 - 120
Sulfate	DUP	419905-03RE	3325.1	3333.1		mg/L	0.2		10	
	MS	419905-03RE	3325.1	5373.3	2020.2	mg/L		101		80 - 120
	MSD	419905-03RE	3325.1	5388.3	2020.2	mg/L	0.3	102	10	80 - 120
QC Batch ID: BXI0180		Used client sample: Y - Description: TON-MW4d, 08/27/2014 17:30								
Bicarbonate Alkalinity as CaCO3	DUP	1419922-02	509.64	496.26		mg/L	2.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419922-02	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419922-02	ND	ND		mg/L			10	
QC Batch ID: BXI0181		Used client sample: Y - Description: FG2-MW3s, 08/27/2014 13:31								
Bicarbonate Alkalinity as CaCO3	DUP	1419924-03	657.52	665.12		mg/L	1.1		10	
Carbonate Alkalinity as CaCO3	DUP	1419924-03	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419924-03	ND	ND		mg/L			10	
QC Batch ID: BXI0268		Used client sample: Y - Description: TON-MW3d, 08/27/2014 16:30								
Total Dissolved Solids @ 180 C	DUP	1419922-01	1610.0	1600.0		mg/L	0.6		10	
QC Batch ID: BXI0400		Used client sample: Y - Description: TON-MW4d, 08/27/2014 17:30								
Total Kjeldahl Nitrogen	DUP	1419922-02	0.34170	0.14520		mg/L	80.7		20	J,A02
	MS	1419922-02	0.34170	1.9613	2.0000	mg/L		81.0		90 - 110 Q03
	MSD	1419922-02	0.34170	1.8694	2.0000	mg/L	4.8	76.4	20	90 - 110 Q03
QC Batch ID: BXI0401		Used client sample: Y - Description: TON-MW4d, 08/27/2014 17:30								
Total Phosphate	DUP	1419922-02	0.46330	0.29190		mg/L	45.4		20	A02
	MS	1419922-02	0.46330	3.2814	3.0660	mg/L		91.9		80 - 120
	MSD	1419922-02	0.46330	3.3388	3.0660	mg/L	1.7	93.8	20	80 - 120
QC Batch ID: BXI0405		Used client sample: Y - Description: SAN-MW1d, 08/27/2014 09:31								
Ammonia as N	DUP	1419923-01	0.043100	0.039600		mg/L	8.5		10	J
	MS	1419923-01	0.043100	1.1640	1.1111	mg/L		101		90 - 110
	MSD	1419923-01	0.043100	1.1822	1.1111	mg/L	1.6	103	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXI1046		Used client sample: Y - Description: FG2-MW5s, 08/27/2014 15:07								
Ammonia as N	DUP	1419924-05	0.038400	0.044300		mg/L	14.3		10	J,A02
	MS	1419924-05	0.038400	1.1809	1.1111	mg/L		103	90 - 110	
	MSD	1419924-05	0.038400	1.1888	1.1111	mg/L	0.7	104	10 90 - 110	
QC Batch ID: BXI1148		Used client sample: Y - Description: SAN-MW1d, 08/27/2014 09:31								
Dissolved Calcium	DUP	1419923-01	74.421	74.242		mg/L	0.2		20	
	MS	1419923-01	74.421	82.701	10.204	mg/L		81.1	85 - 115	A03
	MSD	1419923-01	74.421	82.885	10.204	mg/L	0.2	83.0	20 85 - 115	A03
Dissolved Magnesium	DUP	1419923-01	22.136	22.056		mg/L	0.4		20	
	MS	1419923-01	22.136	31.745	10.204	mg/L		94.2	85 - 115	
	MSD	1419923-01	22.136	31.914	10.204	mg/L	0.5	95.8	20 85 - 115	
Dissolved Sodium	DUP	1419923-01	355.33	354.61		mg/L	0.2		20	
	MS	1419923-01	355.33	358.43	10.204	mg/L		30.4	85 - 115	A03
	MSD	1419923-01	355.33	367.87	10.204	mg/L	2.6	123	20 85 - 115	A03
Dissolved Potassium	DUP	1419923-01	4.0246	4.1623		mg/L	3.4		20	
	MS	1419923-01	4.0246	14.934	10.204	mg/L		107	85 - 115	
	MSD	1419923-01	4.0246	15.164	10.204	mg/L	1.5	109	20 85 - 115	
QC Batch ID: BXI1267		Used client sample: N								
Dissolved Calcium	DUP	1420038-01	46.710	46.128		mg/L	1.3		20	
	MS	1420038-01	46.710	54.812	10.204	mg/L		79.4	85 - 115	A03
	MSD	1420038-01	46.710	55.308	10.204	mg/L	0.9	84.3	20 85 - 115	A03
Dissolved Magnesium	DUP	1420038-01	19.366	19.152		mg/L	1.1		20	
	MS	1420038-01	19.366	29.701	10.204	mg/L		101	85 - 115	
	MSD	1420038-01	19.366	29.744	10.204	mg/L	0.1	102	20 85 - 115	
Dissolved Sodium	DUP	1420038-01	165.74	162.31		mg/L	2.1		20	
	MS	1420038-01	165.74	168.57	10.204	mg/L		27.7	85 - 115	A03
	MSD	1420038-01	165.74	168.83	10.204	mg/L	0.2	30.2	20 85 - 115	A03
Dissolved Potassium	DUP	1420038-01	12.567	12.626		mg/L	0.5		20	
	MS	1420038-01	12.567	22.895	10.204	mg/L		101	85 - 115	
	MSD	1420038-01	12.567	23.017	10.204	mg/L	0.5	102	20 85 - 115	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/17/2014 14:40
Project: Dairy Rep MP - Expanded Suite
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/19/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Godinho Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1420120
Invoice ID: B183715

Enclosed are the results of analyses for samples received by the laboratory on 8/29/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1420120

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody					
Report to: Expanded Constituent Suite							
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 Aftn: Don Light		Project: Dairy Representative Monitoring Program Site: Godinho Dairy Samplers Name: <i>Bill Tech / Steeg Young</i> Global ID:					
Analysis Requested		From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids					
From Filtered Sample: Ammonia-N, NO3-N, NO2-N		From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1, Pe Unpreserved	<input type="checkbox"/>	<input type="checkbox"/>
1	GOD-MW1s	8-29-14	12:56	GW	x	x	x
2	GOD-MW2s		14:22		x	x	x
3	GOD-MW3s		13:53		x	x	x
4	GOD-MW4s		13:21		x	x	x
5	GOD-MW5s		15:59		x	x	x
6	GOD-MW6s		14:55		x	x	x
7	GOD-MW7s		15:26		x	x	x
8	Field Duplicate				x	x	x
9							
10							
11							
12							

Received by: *[Signature]* Date & Time: 8/29/14 16:20
 Received by: *[Signature]* Date & Time: 8/29/14 20:45
 Received by: *[Signature]* Date & Time:

Relinquished by: (Signature) *[Signature]* Date & Time: 8-29-14 16:20
 Relinquished by: (Signature) *[Signature]*
 Relinquished by: (Signature) *[Signature]*

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lühdorff and Sciamanni Consulting Engineers via email llavagnino@lscce.com, tbryson@lscce.com, pdhalliwal@lscce.com
 4) Send bill to Del-Tech, only.

(A) = Analysis (C) = Container (P) = Preservative
Lab - Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14.20120

SHIPPING INFORMATION Federal Express UPS Hand Delivery BC Lab Field Service Other

SHIPPING CONTAINER Ice Chest None Box Other

FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals Ice Chest Containers Intact? Yes No

All samples received? All samples containers intact? Description(s) match COC?

COC Received YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Temperature: (A) 0.3 C (C) 0.5 C

Date/Time 8/29/14 Analyst Init NW 2045

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: Date/Time: 8/29/14 12:55



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 3 of 4

Submission #: 14-20120

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/29/14
 Temperature: (A) 0.0 °C / (C) 0.2 °C Analyst Init NW 2045

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL					ABS	ABS	ABS			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time 8/29/14 2050 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

Sample Numbering Completed By: _____ A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1420120-01	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 12:56
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW1s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy Young	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420120-02	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 14:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW2s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy Young	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420120-03	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 13:53
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW3s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy Young	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420120-04	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 13:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW4s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy Young	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420120-05	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 15:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW5s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy Young	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1420120-06	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 14:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW6s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy Young	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420120-07	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 15:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW7s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy Young	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1420120-01	Client Sample Name:	GOD-MW1s, 8/29/2014 12:56:00PM, Del-Tech/ Stacy Young						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	56	mg/L	0.10	0.016	EPA-200.7	0.048		1	
Dissolved Magnesium	69	mg/L	0.050	0.019	EPA-200.7	0.027		1	
Dissolved Sodium	580	mg/L	0.50	0.051	EPA-200.7	ND		1	
Dissolved Potassium	1.4	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate Alkalinity as CaCO3	850	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	330	mg/L	2.5	0.34	EPA-300.0	0.88	A01	3	
Nitrate as N	0.94	mg/L	1.0	0.25	EPA-300.0	ND	J,A10	4	
Sulfate	300	mg/L	5.0	0.90	EPA-300.0	0.90	A01	3	
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		5	
Total Kjeldahl Nitrogen	0.35	mg/L	0.20	0.053	EPA-351.2	0.057		6	
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.036		7	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8	
Total Phosphate	0.40	mg/L	0.15	0.092	EPA-365.4	ND		9	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 01:59	JRG	PE-OP2	1	BXI1270
2	SM-2320B	09/05/14	09/05/14 08:05	RLP	MET-1	2	BXI0502
3	EPA-300.0	08/30/14	08/31/14 13:44	LD1	IC5	5	BXI0047
4	EPA-300.0	08/30/14	08/30/14 21:20	LD1	IC5	10	BXI0047
5	SM-2540C	09/04/14	09/04/14 13:55	NW1	MANUAL	10	BXI0370
6	EPA-351.2	09/16/14	09/16/14 19:08	JP1	SC-1	1	BXI1458
7	EPA-350.1	09/12/14	09/15/14 12:38	JP1	SC-1	1	BXI1232
8	EPA-353.2	08/30/14	08/30/14 16:42	OLH	KONE-1	1	BXI0196
9	EPA-365.4	09/16/14	09/16/14 16:57	JP1	SC-1	1	BXI1459

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420120-02		Client Sample Name: GOD-MW2s, 8/29/2014 2:22:00PM, Del-Tech/ Stacy Young						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	99	mg/L	0.10	0.016	EPA-200.7	0.048		1
Dissolved Magnesium	120	mg/L	0.050	0.019	EPA-200.7	0.027		1
Dissolved Sodium	500	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	460	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	430	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	25	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	600	mg/L	10	1.8	EPA-300.0	1.8	A01	3
Total Dissolved Solids @ 180 C	2300	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.37	mg/L	0.20	0.053	EPA-351.2	0.057		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.036		6
Nitrite as N	0.014	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.38	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 02:12	JRG	PE-OP2	1	BXI1270
2	SM-2320B	09/05/14	09/05/14 08:21	RLP	MET-1	2	BXI0502
3	EPA-300.0	08/30/14	08/30/14 21:37	LD1	IC5	10	BXI0047
4	SM-2540C	09/04/14	09/04/14 13:55	NW1	MANUAL	10	BXI0370
5	EPA-351.2	09/16/14	09/16/14 19:10	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:38	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:42	OLH	KONE-1	1	BXI0196
8	EPA-365.4	09/16/14	09/16/14 16:58	JP1	SC-1	1	BXI1459

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420120-03		Client Sample Name: GOD-MW3s, 8/29/2014 1:53:00PM, Del-Tech/ Stacy Young						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	77	mg/L	0.10	0.016	EPA-200.7	0.048		1
Dissolved Magnesium	43	mg/L	0.050	0.019	EPA-200.7	0.027		1
Dissolved Sodium	140	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	320	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	100	mg/L	1.0	0.13	EPA-300.0	0.35	A01	3
Nitrate as N	14	mg/L	0.20	0.050	EPA-300.0	ND	A01	3
Sulfate	110	mg/L	2.0	0.36	EPA-300.0	0.36	A01	3
Total Dissolved Solids @ 180 C	800	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.58	mg/L	0.20	0.053	EPA-351.2	0.057		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.036		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.30	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 02:15	JRG	PE-OP2	1	BXI1270
2	SM-2320B	09/05/14	09/05/14 08:29	RLP	MET-1	2	BXI0502
3	EPA-300.0	08/30/14	08/30/14 21:55	LD1	IC5	2	BXI0047
4	SM-2540C	09/04/14	09/04/14 13:55	NW1	MANUAL	5	BXI0370
5	EPA-351.2	09/16/14	09/16/14 19:10	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:40	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:42	OLH	KONE-1	1	BXI0196
8	EPA-365.4	09/16/14	09/16/14 16:58	JP1	SC-1	1	BXI1459

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1420120-04	Client Sample Name:	GOD-MW4s, 8/29/2014 1:21:00PM, Del-Tech/ Stacy Young						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	75	mg/L	0.10	0.016	EPA-200.7	0.048		1	
Dissolved Magnesium	71	mg/L	0.050	0.019	EPA-200.7	0.027		1	
Dissolved Sodium	660	mg/L	0.50	0.051	EPA-200.7	ND		1	
Dissolved Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate Alkalinity as CaCO3	880	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	310	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3	
Nitrate as N	23	mg/L	1.0	0.25	EPA-300.0	ND	A01	3	
Sulfate	380	mg/L	10	1.8	EPA-300.0	1.8	A01	3	
Total Dissolved Solids @ 180 C	2300	mg/L	100	100	SM-2540C	ND		4	
Total Kjeldahl Nitrogen	0.41	mg/L	0.20	0.053	EPA-351.2	0.057		5	
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.036		6	
Nitrite as N	0.027	mg/L	0.050	0.010	EPA-353.2	ND	J	7	
Total Phosphate	0.39	mg/L	0.15	0.092	EPA-365.4	ND		8	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 02:17	JRG	PE-OP2	1	BXI1270
2	SM-2320B	09/05/14	09/05/14 08:35	RLP	MET-1	2	BXI0502
3	EPA-300.0	08/30/14	08/30/14 22:12	LD1	IC5	10	BXI0047
4	SM-2540C	09/04/14	09/04/14 13:55	NW1	MANUAL	10	BXI0370
5	EPA-351.2	09/16/14	09/16/14 19:11	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:40	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:42	OLH	KONE-1	1	BXI0196
8	EPA-365.4	09/16/14	09/16/14 16:59	JP1	SC-1	1	BXI1459

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420120-05	Client Sample Name: GOD-MW5s, 8/29/2014 3:59:00PM, Del-Tech/ Stacy Young
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	96	mg/L	0.10	0.016	EPA-200.7	0.048		1
Dissolved Magnesium	86	mg/L	0.050	0.019	EPA-200.7	0.027		1
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	300	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	260	mg/L	2.5	0.34	EPA-300.0	0.88	A01	3
Nitrate as N	5.0	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	260	mg/L	5.0	0.90	EPA-300.0	0.90	A01	3
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.22	mg/L	0.20	0.053	EPA-351.2	0.053		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.036		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 02:20	JRG	PE-OP2	1	BXI1270
2	SM-2320B	09/05/14	09/05/14 08:44	RLP	MET-1	2	BXI0502
3	EPA-300.0	08/30/14	08/30/14 22:30	LD1	IC5	5	BXI0047
4	SM-2540C	09/04/14	09/04/14 13:55	NW1	MANUAL	5	BXI0370
5	EPA-351.2	09/17/14	09/17/14 13:25	JP1	SC-1	1	BXI1531
6	EPA-350.1	09/12/14	09/15/14 12:42	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:42	OLH	KONE-1	1	BXI0196
8	EPA-365.4	09/17/14	09/17/14 11:05	JP1	SC-1	1	BXI1532

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420120-06	Client Sample Name: GOD-MW6s, 8/29/2014 2:55:00PM, Del-Tech/ Stacy Young
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	0.048		1
Dissolved Magnesium	130	mg/L	0.050	0.019	EPA-200.7	0.027		1
Dissolved Sodium	640	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	460	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	600	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	15	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	830	mg/L	10	1.8	EPA-300.0	1.8	A01	3
Total Dissolved Solids @ 180 C	2900	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.27	mg/L	0.20	0.053	EPA-351.2	0.053		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.036		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.25	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 01:47	JRG	PE-OP2	1	BXI1270
2	SM-2320B	09/05/14	09/05/14 08:50	RLP	MET-1	2	BXI0502
3	EPA-300.0	08/30/14	08/30/14 23:22	LD1	IC5	10	BXI0047
4	SM-2540C	09/04/14	09/04/14 13:55	NW1	MANUAL	20	BXI0370
5	EPA-351.2	09/17/14	09/17/14 13:28	JP1	SC-1	1	BXI1531
6	EPA-350.1	09/12/14	09/15/14 12:44	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:44	OLH	KONE-1	1	BXI0196
8	EPA-365.4	09/17/14	09/17/14 11:07	JP1	SC-1	1	BXI1532

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1420120-07	Client Sample Name:	GOD-MW7s, 8/29/2014 3:26:00PM, Del-Tech/ Stacy Young						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	100	mg/L	0.10	0.016	EPA-200.7	0.048		1	
Dissolved Magnesium	140	mg/L	0.050	0.019	EPA-200.7	0.027		1	
Dissolved Sodium	550	mg/L	0.50	0.051	EPA-200.7	ND		1	
Dissolved Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate Alkalinity as CaCO3	640	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	440	mg/L	2.5	0.34	EPA-300.0	0.88	A01	3	
Nitrate as N	0.38	mg/L	0.50	0.12	EPA-300.0	ND	J,A10	3	
Sulfate	710	mg/L	5.0	0.90	EPA-300.0	0.90	A01	3	
Total Dissolved Solids @ 180 C	2400	mg/L	100	100	SM-2540C	ND		4	
Total Kjeldahl Nitrogen	0.95	mg/L	0.20	0.053	EPA-351.2	0.053		5	
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	0.036	J	6	
Nitrite as N	0.071	mg/L	0.050	0.010	EPA-353.2	ND		7	
Total Phosphate	1.0	mg/L	0.15	0.092	EPA-365.4	ND		8	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 01:50	JRG	PE-OP2	1	BXI1270
2	SM-2320B	09/05/14	09/05/14 08:58	RLP	MET-1	2	BXI0502
3	EPA-300.0	08/30/14	08/31/14 14:02	LD1	IC5	5	BXI0047
4	SM-2540C	09/04/14	09/04/14 13:55	NW1	MANUAL	10	BXI0370
5	EPA-351.2	09/17/14	09/17/14 13:30	JP1	SC-1	1	BXI1531
6	EPA-350.1	09/12/14	09/15/14 12:45	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:44	OLH	KONE-1	1	BXI0196
8	EPA-365.4	09/17/14	09/17/14 11:08	JP1	SC-1	1	BXI1532

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0047						
Chloride	BXI0047-BLK1	0.17700	mg/L	0.50	0.067	J
Nitrate as N	BXI0047-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXI0047-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXI0196						
Nitrite as N	BXI0196-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXI0370						
Total Dissolved Solids @ 180 C	BXI0370-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0502						
Bicarbonate Alkalinity as CaCO3	BXI0502-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0502-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0502-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI1232						
Ammonia as N	BXI1232-BLK1	0.036300	mg/L	0.10	0.033	J
QC Batch ID: BXI1270						
Dissolved Calcium	BXI1270-BLK1	0.047884	mg/L	0.10	0.016	J
Dissolved Magnesium	BXI1270-BLK1	0.026529	mg/L	0.050	0.019	J
Dissolved Sodium	BXI1270-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI1270-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI1458						
Total Kjeldahl Nitrogen	BXI1458-BLK1	0.056600	mg/L	0.20	0.053	J
QC Batch ID: BXI1459						
Total Phosphate	BXI1459-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI1531						
Total Kjeldahl Nitrogen	BXI1531-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1532						
Total Phosphate	BXI1532-BLK1	ND	mg/L	0.15	0.092	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXI0047										
Chloride	BXI0047-BS1	LCS	51.900	50.000	mg/L	104		90 - 110		
Nitrate as N	BXI0047-BS1	LCS	5.1660	5.0000	mg/L	103		90 - 110		
Sulfate	BXI0047-BS1	LCS	104.29	100.00	mg/L	104		90 - 110		
QC Batch ID: BXI0196										
Nitrite as N	BXI0196-BS1	LCS	0.48910	0.50000	mg/L	97.8		90 - 110		
QC Batch ID: BXI0370										
Total Dissolved Solids @ 180 C	BXI0370-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXI1232										
Ammonia as N	BXI1232-BS1	LCS	1.0325	1.0000	mg/L	103		90 - 110		
QC Batch ID: BXI1270										
Dissolved Calcium	BXI1270-BS1	LCS	10.280	10.000	mg/L	103		85 - 115		
Dissolved Magnesium	BXI1270-BS1	LCS	10.776	10.000	mg/L	108		85 - 115		
Dissolved Sodium	BXI1270-BS1	LCS	9.9475	10.000	mg/L	99.5		85 - 115		
Dissolved Potassium	BXI1270-BS1	LCS	9.6380	10.000	mg/L	96.4		85 - 115		
QC Batch ID: BXI1458										
Total Kjeldahl Nitrogen	BXI1458-BS1	LCS	1.9611	2.0000	mg/L	98.1		90 - 110		
QC Batch ID: BXI1459										
Total Phosphate	BXI1459-BS1	LCS	3.3572	3.0660	mg/L	109		85 - 115		
QC Batch ID: BXI1531										
Total Kjeldahl Nitrogen	BXI1531-BS1	LCS	2.0645	2.0000	mg/L	103		90 - 110		
QC Batch ID: BXI1532										
Total Phosphate	BXI1532-BS1	LCS	3.3498	3.0660	mg/L	109		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs: BXI0047, BXI0196, BXI0370, BXI0502, BXI1232, BXI1270.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI1458		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Total Kjeldahl Nitrogen	DUP	1420119-01	0.60910	0.65510		mg/L	7.3		20	
	MS	1420119-01	0.60910	2.2385	2.0000	mg/L		81.5		90 - 110 Q03
	MSD	1420119-01	0.60910	2.2138	2.0000	mg/L	1.1	80.2	20	90 - 110 Q03
QC Batch ID: BXI1459		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Total Phosphate	DUP	1420119-01	0.51911	0.43325		mg/L	18.0		20	
	MS	1420119-01	0.51911	3.6200	3.0660	mg/L		101		80 - 120
	MSD	1420119-01	0.51911	3.7214	3.0660	mg/L	2.8	104	20	80 - 120
QC Batch ID: BXI1531		Used client sample: Y - Description: GOD-MW5s, 08/29/2014 15:59								
Total Kjeldahl Nitrogen	DUP	1420120-05	0.22370	0.18710		mg/L	17.8		20	J
	MS	1420120-05	0.22370	2.0806	2.0000	mg/L		92.8		90 - 110
	MSD	1420120-05	0.22370	2.1333	2.0000	mg/L	2.5	95.5	20	90 - 110
QC Batch ID: BXI1532		Used client sample: Y - Description: GOD-MW5s, 08/29/2014 15:59								
Total Phosphate	DUP	1420120-05	ND	ND		mg/L			20	
	MS	1420120-05	ND	3.3210	3.0660	mg/L		108		80 - 120
	MSD	1420120-05	ND	3.3661	3.0660	mg/L	1.3	110	20	80 - 120

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: Godinho Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/19/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: John Machado Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1420119
Invoice ID: B183714

Enclosed are the results of analyses for samples received by the laboratory on 8/29/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1420119

Samples were filtered through a 0.45 micron filter for requested analyses.



Chain of Custody		Analysis Requested					
BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911					
Report to: Expanded Constituent Suite							
Project: Dairy Representative Monitoring Program							
Site: John Machado Dairy 30 Annual							
Samplers Name: Del Tech / Stacy Young							
Global ID:							
Name: Del-Tech		From Filtered Sample: Na, K, Mg, Ca, Cl, SO ₄ (as SO ₄), Total Dissolved Solids					
Address: 645 N Yosemite		From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO ₄), Alkalinity (HCO ₃ , CO ₃ & OH) as CaCO ₃					
City: Oakdale							
State: CA							
Attn: Don Light							
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1 Pe Unpreserved	From Filtered Sample:	From Unfiltered Sample:
- 1	MAC-MW1s, MAC-MW1s	8-29-14	9:53	6-W	x	x	x
- 2	MAC-MW2s, MAC-MW2s		9:25		x	x	x
- 3	MAC-MW3s, MAC-MW3s		11:48		x	x	x
- 4	MAC-MW4s, MAC-MW4s		11:09		x	x	x
- 5	MAC-MW5s, MAC-MW5s		10:27		x	x	x
6	Field Duplicate				x	x	x
7							
8							
9							
10							
11							
12							
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lufdorff and Scalmanini Consulting Engineers via email: llavagnino@sce.com, rbyson@sce.com, pohallival@sce.com 4) Send bill to Del-Tech, only.						Relinquished by: (Signature) [Signature] 8-29-14 16:20	
Relinquished by: (Signature) [Signature] 8-29-14 16:20						Received by: (Signature) [Signature] 8/29/14 16:20	
Relinquished by: (Signature) [Signature] 8-29-14 16:20						Received by: (Signature) [Signature] 8/29/14 2045	
Relinquished by: (Signature) [Signature] 8-29-14 16:20						Received by: (Signature) [Signature] 8/29/14 2045	

Lab-Filter

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-2019

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/29/14
 Temperature: (A) 0.0 °C / (C) 0.2 °C Analyst Init AW 2045

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A13	A13	A13	A13	A13					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time 8-29-14 2030 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1420119-01	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 09:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1420119-02	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 09:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1420119-03	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 11:48
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1420119-04	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 11:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1420119-05	COC Number:	---	Receive Date:	08/29/2014 20:45
	Project Number:	---	Sampling Date:	08/29/2014 10:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420119-01	Client Sample Name: MAC-MW1s, 8/29/2014 9:52:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	63	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	400	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	630	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	290	mg/L	2.5	0.34	EPA-300.0	0.92	A01	3
Nitrate as N	13	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	250	mg/L	5.0	0.90	EPA-300.0	0.98	A01	3
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.61	mg/L	0.20	0.053	EPA-351.2	0.057		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.066	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.52	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 00:15	JRG	PE-OP2	1	BXI1269
2	SM-2320B	09/04/14	09/04/14 20:35	RML	MET-1	2	BXI0418
3	EPA-300.0	08/30/14	08/30/14 19:53	LD1	IC5	5	BXI0046
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	10	BXI0369
5	EPA-351.2	09/16/14	09/16/14 18:59	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:15	JP1	SC-1	1	BXI1231
7	EPA-353.2	08/30/14	08/30/14 16:37	OLH	KONE-1	1	BXI0195
8	EPA-365.4	09/16/14	09/16/14 16:51	JP1	SC-1	1	BXI1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420119-02	Client Sample Name: MAC-MW2s, 8/29/2014 9:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	59	mg/L	0.10	0.016	EPA-200.7	0.022		1
Dissolved Magnesium	60	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	520	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	720	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	270	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	36	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	200	mg/L	10	1.8	EPA-300.0	2.0	A01	3
Total Dissolved Solids @ 180 C	1800	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.18	mg/L	0.20	0.053	EPA-351.2	0.057	J	5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.017	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.58	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 00:27	JRG	PE-OP2	1	BXI1269
2	SM-2320B	09/04/14	09/04/14 20:42	RML	MET-1	2	BXI0418
3	EPA-300.0	08/30/14	08/30/14 20:10	LD1	IC5	10	BXI0046
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	10	BXI0369
5	EPA-351.2	09/16/14	09/16/14 19:03	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:27	JP1	SC-1	1	BXI1231
7	EPA-353.2	08/30/14	08/30/14 16:37	OLH	KONE-1	1	BXI0195
8	EPA-365.4	09/16/14	09/16/14 16:54	JP1	SC-1	1	BXI1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420119-03	Client Sample Name: MAC-MW3s, 8/29/2014 11:48:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	570	mg/L	0.20	0.032	EPA-200.7	0.043	A01	1
Dissolved Magnesium	280	mg/L	0.10	0.038	EPA-200.7	ND	A01	1
Dissolved Sodium	940	mg/L	1.0	0.10	EPA-200.7	ND	A01	1
Dissolved Potassium	8.3	mg/L	2.0	0.20	EPA-200.7	ND	A01	1
Bicarbonate Alkalinity as CaCO3	390	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	290	mg/L	10	1.3	EPA-300.0	3.7	A01	3
Nitrate as N	82	mg/L	2.0	0.50	EPA-300.0	ND	A01	3
Sulfate	3600	mg/L	20	3.6	EPA-300.0	3.9	A01	3
Total Dissolved Solids @ 180 C	6700	mg/L	500	500	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.5	mg/L	0.20	0.053	EPA-351.2	0.057		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.036		6
Nitrite as N	0.20	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.35	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 00:30	JRG	PE-OP2	2	BXI1269
2	SM-2320B	09/04/14	09/04/14 20:48	RML	MET-1	2	BXI0418
3	EPA-300.0	08/30/14	08/30/14 20:28	LD1	IC5	20	BXI0046
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	50	BXI0369
5	EPA-351.2	09/16/14	09/16/14 19:04	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:31	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:37	OLH	KONE-1	1	BXI0195
8	EPA-365.4	09/16/14	09/16/14 16:54	JP1	SC-1	1	BXI1459

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420119-04		Client Sample Name: MAC-MW4s, 8/29/2014 11:09:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	79	mg/L	0.20	0.032	EPA-200.7	0.043	A01	1
Dissolved Magnesium	99	mg/L	0.10	0.038	EPA-200.7	ND	A01	1
Dissolved Sodium	710	mg/L	1.0	0.10	EPA-200.7	ND	A01	1
Dissolved Potassium	10	mg/L	2.0	0.20	EPA-200.7	ND	A01	1
Bicarbonate Alkalinity as CaCO3	810	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	510	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	10	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	610	mg/L	10	1.8	EPA-300.0	2.0	A01	3
Total Dissolved Solids @ 180 C	2800	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.86	mg/L	0.20	0.053	EPA-351.2	0.057		5
Ammonia as N	0.28	mg/L	0.10	0.033	EPA-350.1	0.036		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.7	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 00:33	JRG	PE-OP2	2	BXI1269
2	SM-2320B	09/04/14	09/04/14 20:55	RML	MET-1	2	BXI0418
3	EPA-300.0	08/30/14	08/30/14 20:45	LD1	IC5	10	BXI0046
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	20	BXI0369
5	EPA-351.2	09/16/14	09/16/14 19:06	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:36	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:37	OLH	KONE-1	1	BXI0195
8	EPA-365.4	09/16/14	09/16/14 16:56	JP1	SC-1	1	BXI1459

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420119-05		Client Sample Name: MAC-MW5s, 8/29/2014 10:27:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	51	mg/L	0.20	0.032	EPA-200.7	0.043	A01	1
Dissolved Magnesium	64	mg/L	0.10	0.038	EPA-200.7	ND	A01	1
Dissolved Sodium	930	mg/L	1.0	0.10	EPA-200.7	ND	A01	1
Dissolved Potassium	3.3	mg/L	2.0	0.20	EPA-200.7	ND	A01	1
Bicarbonate Alkalinity as CaCO3	910	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	540	mg/L	5.0	0.67	EPA-300.0	1.8	A01	3
Nitrate as N	21	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	640	mg/L	10	1.8	EPA-300.0	2.0	A01	3
Total Dissolved Solids @ 180 C	3000	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.93	mg/L	0.20	0.053	EPA-351.2	0.057		5
Ammonia as N	0.14	mg/L	0.10	0.033	EPA-350.1	0.036		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.96	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 00:42	JRG	PE-OP2	2	BXI1269
2	SM-2320B	09/04/14	09/04/14 21:02	RML	MET-1	2	BXI0418
3	EPA-300.0	08/30/14	08/30/14 21:03	LD1	IC5	10	BXI0046
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	20	BXI0369
5	EPA-351.2	09/16/14	09/16/14 19:08	JP1	SC-1	1	BXI1458
6	EPA-350.1	09/12/14	09/15/14 12:36	JP1	SC-1	1	BXI1232
7	EPA-353.2	08/30/14	08/30/14 16:37	OLH	KONE-1	1	BXI0195
8	EPA-365.4	09/16/14	09/16/14 16:57	JP1	SC-1	1	BXI1459

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0046						
Chloride	BXI0046-BLK1	0.18300	mg/L	0.50	0.067	J
Nitrate as N	BXI0046-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXI0046-BLK1	0.19700	mg/L	1.0	0.18	J
QC Batch ID: BXI0195						
Nitrite as N	BXI0195-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXI0369						
Total Dissolved Solids @ 180 C	BXI0369-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI0418						
Bicarbonate Alkalinity as CaCO3	BXI0418-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0418-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0418-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI1231						
Ammonia as N	BXI1231-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1232						
Ammonia as N	BXI1232-BLK1	0.036300	mg/L	0.10	0.033	J
QC Batch ID: BXI1269						
Dissolved Calcium	BXI1269-BLK1	0.021698	mg/L	0.10	0.016	J
Dissolved Magnesium	BXI1269-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1269-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI1269-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXI1458						
Total Kjeldahl Nitrogen	BXI1458-BLK1	0.056600	mg/L	0.20	0.053	J
QC Batch ID: BXI1459						
Total Phosphate	BXI1459-BLK1	ND	mg/L	0.15	0.092	

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Del-Tech
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Oakdale, CA 95361

Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXI0046										
Chloride	BXI0046-BS1	LCS	51.771	50.000	mg/L	104		90 - 110		
Nitrate as N	BXI0046-BS1	LCS	5.1670	5.0000	mg/L	103		90 - 110		
Sulfate	BXI0046-BS1	LCS	103.82	100.00	mg/L	104		90 - 110		
QC Batch ID: BXI0195										
Nitrite as N	BXI0195-BS1	LCS	0.50085	0.50000	mg/L	100		90 - 110		
QC Batch ID: BXI0369										
Total Dissolved Solids @ 180 C	BXI0369-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXI1231										
Ammonia as N	BXI1231-BS1	LCS	1.0890	1.0000	mg/L	109		90 - 110		
QC Batch ID: BXI1232										
Ammonia as N	BXI1232-BS1	LCS	1.0325	1.0000	mg/L	103		90 - 110		
QC Batch ID: BXI1269										
Dissolved Calcium	BXI1269-BS1	LCS	9.8672	10.000	mg/L	98.7		85 - 115		
Dissolved Magnesium	BXI1269-BS1	LCS	10.175	10.000	mg/L	102		85 - 115		
Dissolved Sodium	BXI1269-BS1	LCS	10.415	10.000	mg/L	104		85 - 115		
Dissolved Potassium	BXI1269-BS1	LCS	9.8458	10.000	mg/L	98.5		85 - 115		
QC Batch ID: BXI1458										
Total Kjeldahl Nitrogen	BXI1458-BS1	LCS	1.9611	2.0000	mg/L	98.1		90 - 110		
QC Batch ID: BXI1459										
Total Phosphate	BXI1459-BS1	LCS	3.3572	3.0660	mg/L	109		85 - 115		

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI0046		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Chloride	DUP	420119-01RE'	291.41	291.68		mg/L	0.1		10	
	MS	420119-01RE'	291.41	556.04	252.53	mg/L		105		80 - 120
	MSD	420119-01RE'	291.41	557.25	252.53	mg/L	0.2	105	10	80 - 120
Nitrate as N	DUP	420119-01RE'	12.895	12.885		mg/L	0.1		10	
	MS	420119-01RE'	12.895	38.106	25.253	mg/L		99.8		80 - 120
	MSD	420119-01RE'	12.895	38.308	25.253	mg/L	0.5	101	10	80 - 120
Sulfate	DUP	420119-01RE'	248.92	249.76		mg/L	0.3		10	
	MS	420119-01RE'	248.92	790.39	505.05	mg/L		107		80 - 120
	MSD	420119-01RE'	248.92	789.71	505.05	mg/L	0.1	107	10	80 - 120
QC Batch ID: BXI0195		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Nitrite as N	DUP	1420119-01	0.065956	0.066156		mg/L	0.3		10	
	MS	1420119-01	0.065956	0.58895	0.52632	mg/L		99.4		90 - 110
	MSD	1420119-01	0.065956	0.58690	0.52632	mg/L	0.4	99.0	10	90 - 110
QC Batch ID: BXI0369		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Total Dissolved Solids @ 180 C	DUP	1420119-01	1550.0	1570.0		mg/L	1.3		10	
QC Batch ID: BXI0418		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1420118-06	935.62	940.48		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1420118-06	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1420118-06	ND	ND		mg/L			10	
QC Batch ID: BXI1231		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Ammonia as N	DUP	1420119-01	ND	ND		mg/L			10	
	MS	1420119-01	ND	1.1102	1.1111	mg/L		99.9		90 - 110
	MSD	1420119-01	ND	1.1393	1.1111	mg/L	2.6	103	10	90 - 110
QC Batch ID: BXI1232		Used client sample: Y - Description: MAC-MW3s, 08/29/2014 11:48								
Ammonia as N	DUP	1420119-03	ND	ND		mg/L			10	
	MS	1420119-03	ND	1.1943	1.1111	mg/L		107		90 - 110
	MSD	1420119-03	ND	1.2190	1.1111	mg/L	2.0	110	10	90 - 110
QC Batch ID: BXI1269		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Dissolved Calcium	DUP	1420119-01	109.88	109.43		mg/L	0.4		20	
	MS	1420119-01	109.88	118.34	10.204	mg/L		82.9		85 - 115 A03
	MSD	1420119-01	109.88	119.25	10.204	mg/L	0.8	91.8	20	85 - 115
Dissolved Magnesium	DUP	1420119-01	63.010	62.626		mg/L	0.6		20	
	MS	1420119-01	63.010	72.635	10.204	mg/L		94.3		85 - 115
	MSD	1420119-01	63.010	73.370	10.204	mg/L	1.0	102	20	85 - 115

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Reported: 09/19/2014 8:51
Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI1269		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Dissolved Sodium	DUP	1420119-01	402.35	404.04		mg/L	0.4		20	
	MS	1420119-01	402.35	407.83	10.204	mg/L		53.7		85 - 115 A03
	MSD	1420119-01	402.35	408.70	10.204	mg/L	0.2	62.2	20	85 - 115 A03
Dissolved Potassium	DUP	1420119-01	2.1678	2.2472		mg/L	3.6		20	
	MS	1420119-01	2.1678	13.365	10.204	mg/L		110		85 - 115
	MSD	1420119-01	2.1678	13.544	10.204	mg/L	1.3	111	20	85 - 115
QC Batch ID: BXI1458		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Total Kjeldahl Nitrogen	DUP	1420119-01	0.60910	0.65510		mg/L	7.3		20	
	MS	1420119-01	0.60910	2.2385	2.0000	mg/L		81.5		90 - 110 Q03
	MSD	1420119-01	0.60910	2.2138	2.0000	mg/L	1.1	80.2	20	90 - 110 Q03
QC Batch ID: BXI1459		Used client sample: Y - Description: MAC-MW1s, 08/29/2014 09:52								
Total Phosphate	DUP	1420119-01	0.51911	0.43325		mg/L	18.0		20	
	MS	1420119-01	0.51911	3.6200	3.0660	mg/L		101		80 - 120
	MSD	1420119-01	0.51911	3.7214	3.0660	mg/L	2.8	104	20	80 - 120

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Project: Dairy Rep MP - Expanded Suite
Project Number: John Machado Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/18/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Jose Nunes Dairy - Annual
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1420048
Invoice ID: B183602

Enclosed are the results of analyses for samples received by the laboratory on 8/28/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1420048

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc. 1420048 Report to: Expanded Constituent Suite		Chain of Custody 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911															
Analysis Requested																	
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 CA Attn: Don Light		Project: Dairy Representative Monitoring Program Site: Jose Nunes Dairy 38 Annual Samplers Name: Del Tech / Stacy Hong Global ID:															
From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids		From Filtered Sample: Ammonia-N, NO3-N, NO2-N															
From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3																	
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	
1	NUN-MW1s, NUN-MW2s, NUN-MW3s, NUN-MW4s	8-28-14	16:03	GW	x												x
2	NUN-MW2s, NUN-MW1s, NUN-MW3s, NUN-MW4s	8-28-14	15:51	GW	x												x
3	NUN-MW3s, NUN-MW1s, NUN-MW2s, NUN-MW4s	8-28-14	16:26	GW	x												x
4	NUN-MW4s, NUN-MW1s, NUN-MW2s, NUN-MW3s	8-28-14	16:54	GW	x												x
5	Field Duplicate				x												x
6																	
7																	
8																	
9																	
10																	
11																	
12																	
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lundorff and Scalmanini Consulting Engineers via email: llavegninc@lscce.com, rryson@lscce.com, pothallival@lscce.com 4) Send bill to Del-Tech, only.		Relinquished by: (Signature) [Signature] 8-28-14 1745 Relinquished by: (Signature) [Signature] 8-28-14 1815 Relinquished by: (Signature) [Signature] 8-28-14 2245															
(A)= Analysis (C)= Container (P)= Preservative		Lab Filter															

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-20048

SHIPPING INFORMATION
Federal Express [] UPS [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER
Ice Chest [x] None [] Box []
Other [] (Specify) _____

FREE LIQUID
YES [] NO []

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [x] Comments:
Intact? Yes [] No [] Intact? Yes [] No []

All samples received? Yes [x] No [] All samples containers intact? Yes [x] No [] Description(s) match COC? Yes [x] No []

COC Received
YES [x] NO []

Emissivity: 0.97 Container: Pe Thermometer ID: 207
Temperature: (A) 0.2 °C / (C) 0.4 °C

Date/Time: 8/28/14 22:15
Analyst Init: MW

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Includes handwritten entries 'A,B' in columns 1-4 for the first row.

Comments:
Sample Numbering Completed By: [Signature] Date/Time: 8/29/14 08:00
A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1420048-01	COC Number: ---	Receive Date: 08/28/2014 22:15
	Project Number: ---	Sampling Date: 08/28/2014 16:03
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: NUN-MW1s	Lab Matrix: Water
	Sampled By: Del-Tech/ Stacy	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1420048-02	COC Number: ---	Receive Date: 08/28/2014 22:15
	Project Number: ---	Sampling Date: 08/28/2014 15:41
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: NUN-MW2s	Lab Matrix: Water
	Sampled By: Del-Tech/ Stacy	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1420048-03	COC Number: ---	Receive Date: 08/28/2014 22:15
	Project Number: ---	Sampling Date: 08/28/2014 16:26
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: NUN-MW3s	Lab Matrix: Water
	Sampled By: Del-Tech/ Stacy	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1420048-04	COC Number: ---	Receive Date: 08/28/2014 22:15
	Project Number: ---	Sampling Date: 08/28/2014 16:54
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: NUN-MW4s	Lab Matrix: Water
	Sampled By: Del-Tech/ Stacy	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420048-01	Client Sample Name: NUN-MW1s, 8/28/2014 4:03:00PM, Del-Tech/ Stacy
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	110	mg/L	0.20	0.032	EPA-200.7	ND	A01	1
Dissolved Magnesium	160	mg/L	0.10	0.038	EPA-200.7	ND	A01	1
Dissolved Sodium	1300	mg/L	1.0	0.10	EPA-200.7	ND	A01	1
Dissolved Potassium	2.3	mg/L	2.0	0.20	EPA-200.7	ND	A01	1
Bicarbonate Alkalinity as CaCO3	790	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	730	mg/L	10	1.3	EPA-300.0	ND	A01	3
Nitrate as N	0.88	mg/L	2.0	0.50	EPA-300.0	ND	J,A10	3
Sulfate	1700	mg/L	20	3.6	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	4700	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.53	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.15	mg/L	0.15	0.092	EPA-365.4	0.11		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/14/14 23:13	JRG	PE-OP2	2	BXI1267
2	SM-2320B	09/04/14	09/04/14 12:49	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 08:05	LD1	IC2	20	BXI0039
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	20	BXI0269
5	EPA-351.2	09/12/14	09/15/14 16:22	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 11:51	JP1	SC-1	1	BXI1229
7	EPA-353.2	08/29/14	08/29/14 15:05	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 15:37	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1420048-02	Client Sample Name:	NUN-MW2s, 8/28/2014 3:41:00PM, Del-Tech/ Stacy						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	140	mg/L	0.10	0.016	EPA-200.7	ND		1	
Dissolved Magnesium	130	mg/L	0.050	0.019	EPA-200.7	ND		1	
Dissolved Sodium	570	mg/L	0.50	0.051	EPA-200.7	ND		1	
Dissolved Potassium	1.5	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate Alkalinity as CaCO3	570	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	310	mg/L	5.0	0.67	EPA-300.0	ND	A01	3	
Nitrate as N	1.6	mg/L	1.0	0.25	EPA-300.0	ND	A10	3	
Sulfate	950	mg/L	10	1.8	EPA-300.0	ND	A01	3	
Total Dissolved Solids @ 180 C	2600	mg/L	100	100	SM-2540C	ND		4	
Total Kjeldahl Nitrogen	0.92	mg/L	0.20	0.053	EPA-351.2	ND		5	
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6	
Nitrite as N	0.018	mg/L	0.050	0.010	EPA-353.2	ND	J	7	
Total Phosphate	0.15	mg/L	0.15	0.092	EPA-365.4	0.11		8	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/14/14 23:16	JRG	PE-OP2	1	BXI1267
2	SM-2320B	09/04/14	09/04/14 13:08	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 08:23	LD1	IC2	10	BXI0039
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	10	BXI0269
5	EPA-351.2	09/12/14	09/15/14 16:25	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 11:53	JP1	SC-1	1	BXI1229
7	EPA-353.2	08/29/14	08/29/14 15:05	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 14:52	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420048-03	Client Sample Name: NUN-MW3s, 8/28/2014 4:26:00PM, Del-Tech/ Stacy
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	200	mg/L	0.20	0.032	EPA-200.7	ND	A01	1
Dissolved Magnesium	120	mg/L	0.10	0.038	EPA-200.7	ND	A01	1
Dissolved Sodium	1200	mg/L	1.0	0.10	EPA-200.7	ND	A01	1
Dissolved Potassium	2.2	mg/L	2.0	0.20	EPA-200.7	ND	A01	1
Bicarbonate Alkalinity as CaCO3	750	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	650	mg/L	10	1.3	EPA-300.0	ND	A01	3
Nitrate as N	7.8	mg/L	2.0	0.50	EPA-300.0	ND	A10	3
Sulfate	1800	mg/L	20	3.6	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	4800	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.98	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.033	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	0.11	mg/L	0.15	0.092	EPA-365.4	0.11	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/14/14 23:23	JRG	PE-OP2	2	BXI1267
2	SM-2320B	09/04/14	09/04/14 13:16	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 08:40	LD1	IC2	20	BXI0039
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	20	BXI0269
5	EPA-351.2	09/12/14	09/15/14 16:27	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 11:53	JP1	SC-1	1	BXI1229
7	EPA-353.2	08/29/14	08/29/14 15:05	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 14:53	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1420048-04	Client Sample Name:	NUN-MW4s, 8/28/2014 4:54:00PM, Del-Tech/ Stacy						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	400	mg/L	0.50	0.080	EPA-200.7	ND	A01	1	
Dissolved Magnesium	250	mg/L	0.25	0.095	EPA-200.7	ND	A01	1	
Dissolved Sodium	2300	mg/L	2.5	0.26	EPA-200.7	ND	A01	1	
Dissolved Potassium	2.9	mg/L	5.0	0.50	EPA-200.7	ND	J,A01	1	
Bicarbonate Alkalinity as CaCO3	590	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	860	mg/L	10	1.3	EPA-300.0	ND	A01	3	
Nitrate as N	1.0	mg/L	2.0	0.50	EPA-300.0	ND	J,A10	3	
Sulfate	5100	mg/L	20	3.6	EPA-300.0	ND	A01	3	
Total Dissolved Solids @ 180 C	9600	mg/L	500	500	SM-2540C	ND		4	
Total Kjeldahl Nitrogen	0.47	mg/L	0.20	0.053	EPA-351.2	ND		5	
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6	
Nitrite as N	0.030	mg/L	0.050	0.010	EPA-353.2	ND	J	7	
Total Phosphate	0.18	mg/L	0.15	0.092	EPA-365.4	0.11		8	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/14/14 23:35	JRG	PE-OP2	5	BXI1267
2	SM-2320B	09/04/14	09/04/14 13:26	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 08:58	LD1	IC2	20	BXI0039
4	SM-2540C	09/03/14	09/03/14 20:35	NW1	MANUAL	50	BXI0269
5	EPA-351.2	09/12/14	09/15/14 16:29	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 11:55	JP1	SC-1	1	BXI1229
7	EPA-353.2	08/29/14	08/29/14 15:05	TDC	KONE-1	1	BXH2950
8	EPA-365.4	09/12/14	09/15/14 14:55	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2950						
Nitrite as N	BXH2950-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXI0039						
Chloride	BXI0039-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXI0039-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXI0039-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXI0183						
Bicarbonate Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0269						
Total Dissolved Solids @ 180 C	BXI0269-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI1174						
Total Kjeldahl Nitrogen	BXI1174-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1175						
Total Phosphate	BXI1175-BLK1	0.10670	mg/L	0.15	0.092	J
QC Batch ID: BXI1229						
Ammonia as N	BXI1229-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI1267						
Dissolved Calcium	BXI1267-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI1267-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1267-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXI1267-BLK1	ND	mg/L	1.0	0.10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2950										
Nitrite as N	BXH2950-BS1	LCS	0.50412	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXI0039										
Chloride	BXI0039-BS1	LCS	50.723	50.000	mg/L	101		90 - 110		
Nitrate as N	BXI0039-BS1	LCS	5.0380	5.0000	mg/L	101		90 - 110		
Sulfate	BXI0039-BS1	LCS	101.28	100.00	mg/L	101		90 - 110		
QC Batch ID: BXI0269										
Total Dissolved Solids @ 180 C	BXI0269-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXI1174										
Total Kjeldahl Nitrogen	BXI1174-BS1	LCS	2.0164	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXI1175										
Total Phosphate	BXI1175-BS1	LCS	3.3195	3.0660	mg/L	108		85 - 115		
QC Batch ID: BXI1229										
Ammonia as N	BXI1229-BS1	LCS	0.96890	1.0000	mg/L	96.9		90 - 110		
QC Batch ID: BXI1267										
Dissolved Calcium	BXI1267-BS1	LCS	9.8614	10.000	mg/L	98.6		85 - 115		
Dissolved Magnesium	BXI1267-BS1	LCS	10.415	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXI1267-BS1	LCS	9.9801	10.000	mg/L	99.8		85 - 115		
Dissolved Potassium	BXI1267-BS1	LCS	9.4418	10.000	mg/L	94.4		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2950		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Nitrite as N	DUP	1420048-01	ND	ND		mg/L			10	
	MS	1420048-01	ND	0.55293	0.52632	mg/L		105		90 - 110
	MSD	1420048-01	ND	0.55411	0.52632	mg/L	0.2	105	10	90 - 110
QC Batch ID: BXI0039		Used client sample: N								
Chloride	DUP	420021-02RE	200.38	199.75		mg/L	0.3		10	
	MS	420021-02RE	200.38	301.26	101.01	mg/L		99.9		80 - 120
	MSD	420021-02RE	200.38	300.49	101.01	mg/L	0.3	99.1	10	80 - 120
Nitrate as N	DUP	420021-02RE	3.4760	3.4360		mg/L	1.2		10	
	MS	420021-02RE	3.4760	13.493	10.101	mg/L		99.2		80 - 120
	MSD	420021-02RE	3.4760	13.489	10.101	mg/L	0.0	99.1	10	80 - 120
Sulfate	DUP	420021-02RE	43.532	43.264		mg/L	0.6		10	
	MS	420021-02RE	43.532	250.28	202.02	mg/L		102		80 - 120
	MSD	420021-02RE	43.532	251.01	202.02	mg/L	0.3	103	10	80 - 120
QC Batch ID: BXI0183		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Bicarbonate Alkalinity as CaCO3	DUP	1420048-01	788.96	793.22		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1420048-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1420048-01	ND	ND		mg/L			10	
QC Batch ID: BXI0269		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1419929-01	905.00	905.00		mg/L	0		10	
QC Batch ID: BXI1174		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Total Kjeldahl Nitrogen	DUP	1420048-01	0.53220	0.38800		mg/L	31.3		20	A02
	MS	1420048-01	0.53220	2.3037	2.0000	mg/L		88.6		90 - 110 Q03
	MSD	1420048-01	0.53220	2.3939	2.0000	mg/L	3.8	93.1	20	90 - 110
QC Batch ID: BXI1175		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Total Phosphate	DUP	1420048-01	0.15362	0.22690		mg/L	38.5		20	A02
	MS	1420048-01	0.15362	3.4642	3.0660	mg/L		108		80 - 120
	MSD	1420048-01	0.15362	3.4013	3.0660	mg/L	1.8	106	20	80 - 120
QC Batch ID: BXI1229		Used client sample: N								
Ammonia as N	DUP	1420021-02	ND	0.033300		mg/L			10	J
	MS	1420021-02	ND	1.1270	1.1111	mg/L		101		90 - 110
	MSD	1420021-02	ND	1.1124	1.1111	mg/L	1.3	100	10	90 - 110
QC Batch ID: BXI1267		Used client sample: N								
Dissolved Calcium	DUP	1420038-01	46.710	46.128		mg/L	1.3		20	
	MS	1420038-01	46.710	54.812	10.204	mg/L		79.4		85 - 115 A03
	MSD	1420038-01	46.710	55.308	10.204	mg/L	0.9	84.3	20	85 - 115 A03

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXI1267		Used client sample: N								
Dissolved Magnesium	DUP	1420038-01	19.366	19.152		mg/L	1.1		20	
	MS	1420038-01	19.366	29.701	10.204	mg/L		101		85 - 115
	MSD	1420038-01	19.366	29.744	10.204	mg/L	0.1	102	20	85 - 115
Dissolved Sodium	DUP	1420038-01	165.74	162.31		mg/L	2.1		20	
	MS	1420038-01	165.74	168.57	10.204	mg/L		27.7		85 - 115 A03
	MSD	1420038-01	165.74	168.83	10.204	mg/L	0.2	30.2	20	85 - 115 A03
Dissolved Potassium	DUP	1420038-01	12.567	12.626		mg/L	0.5		20	
	MS	1420038-01	12.567	22.895	10.204	mg/L		101		85 - 115
	MSD	1420038-01	12.567	23.017	10.204	mg/L	0.5	102	20	85 - 115

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 11:17
Project: Dairy Rep MP - Expanded Suite
Project Number: Jose Nunes Dairy - Annual
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/09/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Moonshine Dairy
BCL Project: Dairy Rep MP - Expanded Suite
BCL Work Order: 1419343
Invoice ID: B182679

Enclosed are the results of analyses for samples received by the laboratory on 8/20/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

Water Analysis (General Chemistry)

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Case Narratives

Case Narrative for Work Order 1419343

Samples were filtered through a 0.45 micron filter for requested analyses.



14-19343

Chain of Custody

4100 Atlas Ct
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

Report to:

Expanded Constituent Suite

Project: Dairy Representative Monitoring Program
Site: Moonshine Dairy 30 Annual
Samplers Name: Del Tech / Steg Young
Global ID -

Analysis Requested

From Unfiltered Sample:
Total Kjeldahl Nitrogen,
Total Phosphate (as PO4)
Alkalinity (HCO3, CO3 & OH) as
CaCO3

From Filtered Sample:
Na, K, Mg, Ca, Cl,
SO4 (as SO4),
Total Dissolved Solids

From Filtered Sample:
Ammonia-N, NO3-N,
NO2-N

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1/P6 Unpreserved	Analysis Requested		
						From Filtered Sample: Ammonia-N, NO3-N, NO2-N	From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids	From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4) Alkalinity (HCO3, CO3 & OH) as CaCO3
1		8-20-14	17:35	GW	x	x	x	x
2		8-20-14	18:15	GW	x	x	x	x
3					x	x	x	x
4					x	x	x	x
5					x	x	x	x
6		8-20-14	17:03	GW	x	x	x	x
7		8-20-14	16:27	GW	x	x	x	x
8		8-20-14	16:02	GW	x	x	x	x
9	#6 Field Duplicate	8-20-14	NA	GW	x	x	x	x
10								
11								
12								

Comments

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Lurndorff and Scalimanni Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pdhalwal@lscce.com
- 4) Send bill to Del-Tech, only.

Relinquished by: (Signature)

8-20-14 / 1835

Relinquished by: (Signature)

8-20-14 19:00

Relinquished by: (Signature)

8-20-14 2025

Received By:

8-20-14 1835

Received By:

8-20-14 19:00

Received By:

8-20-14 2025

(A)= Analysis (C)= Container (P)= Preservative

Lab - Filter



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 1

Submission #: 14-19343

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____			
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ <small>Intact? Yes <input type="checkbox"/> No <input type="checkbox"/></small>			
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Emissivity: <u>0.97</u> Container: <u>Pe</u> Thermometer ID: <u>207</u> Temperature: (A) <u>0.3</u> °C / (C) <u>0.5</u> °C	Date/Time: <u>8/20/14 2235</u> Analyst Init: <u>MW</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	AB	AB	AB	AB	AB	AB				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME
 C+6 NO₂ NO₃ OP SS
 DO C₂ BOD MEAS COT
 CHK BY DISTRIBUTION
 MW
 SUB-OUT

Comments: _____
 Sample Numbering Completed By: MW Date/Time: 8/21/14 @ 0040 IS:WPD\Doc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419343-01	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 17:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419343-02	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 18:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419343-03	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 17:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419343-04	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 16:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	
1419343-05	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 16:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW8s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419343-06	COC Number:	---	Receive Date:	08/20/2014 22:35
	Project Number:	---	Sampling Date:	08/20/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419343-01		Client Sample Name: MOO-MW1, 8/20/2014 5:35:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	76	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	140	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	360	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	900	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	260	mg/L	2.5	0.34	EPA-300.0	1.6	A01	3
Nitrate as N	2.3	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	220	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.4	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	1.0	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.017	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	ND	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 20:37	JRG	PE-OP1	1	BXH2419
2	SM-2320B	08/25/14	08/25/14 16:06	RLP	MET-1	2	BXH2444
3	EPA-300.0	08/22/14	08/22/14 13:05	OLH	IC1	5	BXH2232
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2567
5	EPA-351.2	08/28/14	09/04/14 12:16	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/05/14 07:53	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:40	TDC	KONE-1	1	BXH2074
8	EPA-365.4	08/29/14	09/04/14 09:41	JP1	SC-1	1	BXH2840

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419343-02		Client Sample Name: MOO-MW2, 8/20/2014 6:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	180	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	360	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	850	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	360	mg/L	2.5	0.34	EPA-300.0	1.6	A01	3
Nitrate as N	28	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	340	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	2200	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.34	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.047	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.15	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 20:50	JRG	PE-OP1	1	BXH2419
2	SM-2320B	08/25/14	08/25/14 16:17	RLP	MET-1	2	BXH2444
3	EPA-300.0	08/22/14	08/22/14 13:20	OLH	IC1	5	BXH2232
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2567
5	EPA-351.2	08/28/14	09/04/14 12:17	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/05/14 07:54	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:40	TDC	KONE-1	1	BXH2074
8	EPA-365.4	08/29/14	09/04/14 09:42	JP1	SC-1	1	BXH2840

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419343-03		Client Sample Name: MOO-MW6s, 8/20/2014 5:03:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	200	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	150	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	150	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	4.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	810	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	280	mg/L	2.5	0.34	EPA-300.0	1.6	A01	3
Nitrate as N	1.3	mg/L	0.50	0.12	EPA-300.0	ND	A10	3
Sulfate	200	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	2.2	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.12	mg/L	0.10	0.033	EPA-350.1	ND		6
Nitrite as N	0.023	mg/L	0.050	0.010	EPA-353.2	ND	J	7
Total Phosphate	2.4	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 20:52	JRG	PE-OP1	1	BXH2419
2	SM-2320B	08/25/14	08/25/14 16:29	RLP	MET-1	2	BXH2444
3	EPA-300.0	08/22/14	08/22/14 13:34	OLH	IC1	5	BXH2232
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2567
5	EPA-351.2	08/28/14	09/04/14 12:17	JP1	SC-1	1	BXH2839
6	EPA-350.1	09/04/14	09/05/14 07:55	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:40	TDC	KONE-1	1	BXH2074
8	EPA-365.4	08/29/14	09/04/14 09:42	JP1	SC-1	1	BXH2840

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645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1419343-04		Client Sample Name: MOO-MW7s, 8/20/2014 4:27:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	130	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	190	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	240	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	3.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	720	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	290	mg/L	2.5	0.34	EPA-300.0	1.6	A01	3
Nitrate as N	47	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	300	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1800	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.55	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.036	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.095	mg/L	0.15	0.092	EPA-365.4	ND	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 21:02	JRG	PE-OP1	1	BXH2419
2	SM-2320B	08/25/14	08/25/14 16:40	RLP	MET-1	2	BXH2444
3	EPA-300.0	08/22/14	08/22/14 13:49	OLH	IC1	5	BXH2232
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2567
5	EPA-351.2	09/02/14	09/04/14 11:36	JP1	SC-1	1	BXI0077
6	EPA-350.1	09/04/14	09/05/14 07:55	JP1	SC-1	1	BXI0329
7	EPA-353.2	08/21/14	08/21/14 09:45	TDC	KONE-1	1	BXH2074
8	EPA-365.4	09/02/14	09/04/14 09:14	JP1	SC-1	1	BXI0078

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Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1419343-05	Client Sample Name:	MOO-MW8s, 8/20/2014 4:02:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	99	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	150	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	370	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	5.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	680	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	320	mg/L	2.5	0.34	EPA-300.0	1.6	A01	3
Nitrate as N	49	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Sulfate	320	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	2000	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.47	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.041	mg/L	0.10	0.033	EPA-350.1	ND	J	6
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.42	mg/L	0.15	0.092	EPA-365.4	ND		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 21:05	JRG	PE-OP1	1	BXH2419
2	SM-2320B	08/25/14	08/25/14 16:51	RLP	MET-1	2	BXH2444
3	EPA-300.0	08/22/14	08/22/14 14:04	OLH	IC1	5	BXH2232
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2567
5	EPA-351.2	09/02/14	09/04/14 11:38	JP1	SC-1	1	BXI0077
6	EPA-350.1	09/04/14	09/05/14 07:59	JP1	SC-1	1	BXI0330
7	EPA-353.2	08/21/14	08/21/14 09:40	TDC	KONE-1	1	BXH2074
8	EPA-365.4	09/02/14	09/04/14 09:15	JP1	SC-1	1	BXI0078

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Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1419343-06	Client Sample Name:	Field Duplicate #6, 8/20/2014 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	120	mg/L	0.10	0.016	EPA-200.7	ND		1	
Dissolved Magnesium	190	mg/L	0.050	0.019	EPA-200.7	ND		1	
Dissolved Sodium	240	mg/L	0.50	0.051	EPA-200.7	ND		1	
Dissolved Potassium	4.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate Alkalinity as CaCO3	720	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	280	mg/L	2.5	0.34	EPA-300.0	1.6	A01	3	
Nitrate as N	48	mg/L	0.50	0.12	EPA-300.0	ND	A01	3	
Sulfate	290	mg/L	5.0	0.90	EPA-300.0	ND	A01	3	
Total Dissolved Solids @ 180 C	1800	mg/L	100	100	SM-2540C	ND		4	
Total Kjeldahl Nitrogen	0.43	mg/L	0.20	0.053	EPA-351.2	ND		5	
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		6	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		7	
Total Phosphate	0.22	mg/L	0.15	0.092	EPA-365.4	ND		8	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	08/25/14	08/29/14 21:45	JRG	PE-OP1	1	BXH2420
2	SM-2320B	08/25/14	08/25/14 17:01	RLP	MET-1	2	BXH2444
3	EPA-300.0	08/22/14	08/22/14 14:19	OLH	IC1	5	BXH2232
4	SM-2540C	08/26/14	08/26/14 12:15	CAD	MANUAL	10	BXH2567
5	EPA-351.2	09/02/14	09/04/14 11:38	JP1	SC-1	1	BXI0077
6	EPA-350.1	09/04/14	09/05/14 08:04	JP1	SC-1	1	BXI0330
7	EPA-353.2	08/21/14	08/21/14 09:40	TDC	KONE-1	1	BXH2074
8	EPA-365.4	09/02/14	09/04/14 09:16	JP1	SC-1	1	BXI0078

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Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2074						
Nitrite as N	BXH2074-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH2232						
Chloride	BXH2232-BLK1	0.32100	mg/L	0.50	0.067	J
Nitrate as N	BXH2232-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH2232-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2419						
Dissolved Calcium	BXH2419-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2419-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2419-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2419-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2420						
Dissolved Calcium	BXH2420-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXH2420-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXH2420-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BXH2420-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXH2444						
Bicarbonate Alkalinity as CaCO ₃	BXH2444-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO ₃	BXH2444-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO ₃	BXH2444-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXH2567						
Total Dissolved Solids @ 180 C	BXH2567-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXH2839						
Total Kjeldahl Nitrogen	BXH2839-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXH2840						
Total Phosphate	BXH2840-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0077						
Total Kjeldahl Nitrogen	BXI0077-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI0078						
Total Phosphate	BXI0078-BLK1	ND	mg/L	0.15	0.092	
QC Batch ID: BXI0329						

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Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0329						
Ammonia as N	BXI0329-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXI0330						
Ammonia as N	BXI0330-BLK1	ND	mg/L	0.10	0.033	

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Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
QC Batch ID: BXH2074									
Nitrite as N	BXH2074-BS1	LCS	0.51150	0.50000	mg/L	102		90 - 110	
QC Batch ID: BXH2232									
Chloride	BXH2232-BS1	LCS	51.503	50.000	mg/L	103		90 - 110	
Nitrate as N	BXH2232-BS1	LCS	5.1120	5.0000	mg/L	102		90 - 110	
Sulfate	BXH2232-BS1	LCS	102.97	100.00	mg/L	103		90 - 110	
QC Batch ID: BXH2419									
Dissolved Calcium	BXH2419-BS1	LCS	9.8191	10.000	mg/L	98.2		85 - 115	
Dissolved Magnesium	BXH2419-BS1	LCS	10.177	10.000	mg/L	102		85 - 115	
Dissolved Sodium	BXH2419-BS1	LCS	9.6534	10.000	mg/L	96.5		85 - 115	
Dissolved Potassium	BXH2419-BS1	LCS	9.2921	10.000	mg/L	92.9		85 - 115	
QC Batch ID: BXH2420									
Dissolved Calcium	BXH2420-BS1	LCS	9.4460	10.000	mg/L	94.5		85 - 115	
Dissolved Magnesium	BXH2420-BS1	LCS	10.320	10.000	mg/L	103		85 - 115	
Dissolved Sodium	BXH2420-BS1	LCS	10.035	10.000	mg/L	100		85 - 115	
Dissolved Potassium	BXH2420-BS1	LCS	9.7076	10.000	mg/L	97.1		85 - 115	
QC Batch ID: BXH2567									
Total Dissolved Solids @ 180 C	BXH2567-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110	
QC Batch ID: BXH2839									
Total Kjeldahl Nitrogen	BXH2839-BS1	LCS	1.8076	2.0000	mg/L	90.4		90 - 110	
QC Batch ID: BXH2840									
Total Phosphate	BXH2840-BS1	LCS	2.8927	3.0660	mg/L	94.3		85 - 115	
QC Batch ID: BXI0077									
Total Kjeldahl Nitrogen	BXI0077-BS1	LCS	1.9819	2.0000	mg/L	99.1		90 - 110	
QC Batch ID: BXI0078									
Total Phosphate	BXI0078-BS1	LCS	2.8341	3.0660	mg/L	92.4		85 - 115	
QC Batch ID: BXI0329									
Ammonia as N	BXI0329-BS1	LCS	0.94830	1.0000	mg/L	94.8		90 - 110	
QC Batch ID: BXI0330									
Ammonia as N	BXI0330-BS1	LCS	1.0699	1.0000	mg/L	107		90 - 110	

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Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2074		Used client sample: Y - Description: MOO-MW1, 08/20/2014 17:35								
Nitrite as N	DUP	1419343-01	0.016600	0.017103		mg/L	3.0		10	J
	MS	1419343-01	0.016600	0.53062	0.52632	mg/L		97.7	90 - 110	
	MSD	1419343-01	0.016600	0.52951	0.52632	mg/L	0.2	97.5	10 90 - 110	
QC Batch ID: BXH2232		Used client sample: Y - Description: MOO-MW1, 08/20/2014 17:35								
Chloride	DUP	419343-01RE	258.64	258.02		mg/L	0.2		10	
	MS	419343-01RE	258.64	547.62	252.53	mg/L		114	80 - 120	
	MSD	419343-01RE	258.64	547.30	252.53	mg/L	0.1	114	10 80 - 120	
Nitrate as N	DUP	419343-01RE	2.1350	1.9750		mg/L	7.8		10	
	MS	419343-01RE	2.1350	29.848	25.253	mg/L		110	80 - 120	
	MSD	419343-01RE	2.1350	29.833	25.253	mg/L	0.1	110	10 80 - 120	
Sulfate	DUP	419343-01RE	217.90	217.58		mg/L	0.1		10	
	MS	419343-01RE	217.90	803.23	505.05	mg/L		116	80 - 120	
	MSD	419343-01RE	217.90	803.25	505.05	mg/L	0.0	116	10 80 - 120	
QC Batch ID: BXH2419		Used client sample: Y - Description: MOO-MW1, 08/20/2014 17:35								
Dissolved Calcium	DUP	1419343-01	75.543	75.488		mg/L	0.1		20	
	MS	1419343-01	75.543	83.310	10.204	mg/L		76.1	85 - 115	A03
	MSD	1419343-01	75.543	84.264	10.204	mg/L	1.1	85.5	20 85 - 115	
Dissolved Magnesium	DUP	1419343-01	139.00	138.62		mg/L	0.3		20	
	MS	1419343-01	139.00	148.91	10.204	mg/L		97.2	85 - 115	
	MSD	1419343-01	139.00	146.58	10.204	mg/L	1.6	74.3	20 85 - 115	A03
Dissolved Sodium	DUP	1419343-01	359.54	356.94		mg/L	0.7		20	
	MS	1419343-01	359.54	358.71	10.204	mg/L		-8.2	85 - 115	A03
	MSD	1419343-01	359.54	364.83	10.204	mg/L	1.7	51.8	20 85 - 115	A03
Dissolved Potassium	DUP	1419343-01	3.6948	3.6459		mg/L	1.3		20	
	MS	1419343-01	3.6948	14.309	10.204	mg/L		104	85 - 115	
	MSD	1419343-01	3.6948	14.520	10.204	mg/L	1.5	106	20 85 - 115	
QC Batch ID: BXH2420		Used client sample: Y - Description: ROB-MW6d, 08/20/2014 09:36								
Dissolved Calcium	DUP	1419344-01	253.71	246.70		mg/L	2.8		20	
	MS	1419344-01	253.71	257.38	10.204	mg/L		35.9	85 - 115	A03
	MSD	1419344-01	253.71	259.58	10.204	mg/L	0.9	57.5	20 85 - 115	A03
Dissolved Magnesium	DUP	1419344-01	71.492	72.582		mg/L	1.5		20	
	MS	1419344-01	71.492	82.840	10.204	mg/L		111	85 - 115	
	MSD	1419344-01	71.492	82.523	10.204	mg/L	0.4	108	20 85 - 115	
Dissolved Sodium	DUP	1419344-01	171.57	166.75		mg/L	2.8		20	
	MS	1419344-01	171.57	177.15	10.204	mg/L		54.7	85 - 115	A03
	MSD	1419344-01	171.57	179.02	10.204	mg/L	1.0	73.0	20 85 - 115	A03

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2420		Used client sample: Y - Description: ROB-MW6d, 08/20/2014 09:36								
Dissolved Potassium	DUP	1419344-01	18.196	18.265		mg/L	0.4		20	
	MS	1419344-01	18.196	28.410	10.204	mg/L		100		85 - 115
	MSD	1419344-01	18.196	28.739	10.204	mg/L	1.2	103	20	85 - 115
QC Batch ID: BXH2444		Used client sample: N								
Bicarbonate Alkalinity as CaCO3	DUP	1419340-02	12.170	12.630		mg/L	3.7		10	
Carbonate Alkalinity as CaCO3	DUP	1419340-02	ND	4.2600		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1419340-02	ND	ND		mg/L			10	
QC Batch ID: BXH2567		Used client sample: Y - Description: MOO-MW1, 08/20/2014 17:35								
Total Dissolved Solids @ 180 C	DUP	1419343-01	1610.0	1650.0		mg/L	2.5		10	
QC Batch ID: BXH2839		Used client sample: N								
Total Kjeldahl Nitrogen	DUP	1419338-06	0.67510	0.68270		mg/L	1.1		20	
	MS	1419338-06	0.67510	2.2134	2.0000	mg/L		76.9		90 - 110 Q03
	MSD	1419338-06	0.67510	2.1854	2.0000	mg/L	1.3	75.5	20	90 - 110 Q03
QC Batch ID: BXH2840		Used client sample: N								
Total Phosphate	DUP	1419338-06	0.90514	0.95420		mg/L	5.3		20	
	MS	1419338-06	0.90514	3.9943	3.0660	mg/L		101		80 - 120
	MSD	1419338-06	0.90514	3.8137	3.0660	mg/L	4.6	94.9	20	80 - 120
QC Batch ID: BXI0077		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Total Kjeldahl Nitrogen	DUP	1419344-02	0.61700	0.64610		mg/L	4.6		20	
	MS	1419344-02	0.61700	2.3436	2.0000	mg/L		86.3		90 - 110 Q03
	MSD	1419344-02	0.61700	2.4018	2.0000	mg/L	2.5	89.2	20	90 - 110 Q03
QC Batch ID: BXI0078		Used client sample: Y - Description: ROB-MW7d, 08/20/2014 10:13								
Total Phosphate	DUP	1419344-02	0.74999	0.68652		mg/L	8.8		20	
	MS	1419344-02	0.74999	3.7172	3.0660	mg/L		96.8		80 - 120
	MSD	1419344-02	0.74999	3.6175	3.0660	mg/L	2.7	93.5	20	80 - 120
QC Batch ID: BXI0329		Used client sample: N								
Ammonia as N	DUP	1419338-04	ND	ND		mg/L			10	
	MS	1419338-04	ND	1.0883	1.1111	mg/L		97.9		90 - 110
	MSD	1419338-04	ND	1.0979	1.1111	mg/L	0.9	98.8	10	90 - 110
QC Batch ID: BXI0330		Used client sample: Y - Description: MOO-MW8s, 08/20/2014 16:02								
Ammonia as N	DUP	1419343-05	0.040700	0.036400		mg/L	11.2		10	J,A02
	MS	1419343-05	0.040700	1.1780	1.1111	mg/L		102		90 - 110
	MSD	1419343-05	0.040700	1.1649	1.1111	mg/L	1.1	101	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/09/2014 11:00
Project: Dairy Rep MP - Expanded Suite
Project Number: Moonshine Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/18/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Tony L. Lopes Dairy LP - Annual

BCL Project: Dairy Rep MP - Expanded Suite

BCL Work Order: 1420050

Invoice ID: B183659

Enclosed are the results of analyses for samples received by the laboratory on 8/28/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1420050

Samples were filtered through a 0.45 micron filter for requested analyses.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody			
Report to: Expanded Constituent Suite					
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 CA Attn: Don Light		Project: Dairy Representative Monitoring Program Site: Tony L. Lopes Dairy LP 30-Annual Samplers Name: Del Tech - Steg Young Global ID:			
Analysis Requested		From Filtered Sample: Na, K, Mg, Ca, Cl, SO4 (as SO4), Total Dissolved Solids			
From Filtered Sample: Ammonia-N, NO3-N, NO2-N		From Unfiltered Sample: Total Kjeldahl Nitrogen, Total Phosphate (as PO4), Alkalinity (HCO3, CO3 & OH) as CaCO3			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1/P6 Unpreserved
1	TON-MW1s, TON-MW1d -1	8-28-14	11:35	G-W	x
2	TON-MW2s, TON-MW2d -2		12:05		x
3	TON-MW3s, TON-MW3d -3				x
4	TON-MW4s, TON-MW4d -4				x
5	TON-MW5s, TON-MW5d -5				x
6	TON-MW6s, TON-MW6d -3		11:09		x
7	TON-MW7s, TON-MW7d -4		10:45		x
8	TON-MW8s, TON-MW8d -5		9:44		x
9	#17 Field Duplicate -6		NA		x
10					
11					
12					
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhtorff and Scalmani Consulting Engineers via email: llavagnino@lscs.com, rlavagnino@lscs.com, pdhaliwal@lscs.com 4) Send bill to Del-Tech, only.					
Relinquished by: (Signature) [Signature] 8-28-14 / 1745		Received By: (Signature) [Signature] 8-28-14 1745			
Relinquished by: (Signature) [Signature] 8-28-14 1815		Received By: (Signature) [Signature] 8/28/14 18:15			
Relinquished by: (Signature) [Signature]		Received By: (Signature) [Signature] 8/28/14 225			

Lab - Filter

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 of 1

Submission #: 14-20050

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/28/14 22:15
 Temperature: (A) 0.1 °C / (C) 0.3 °C Analyst Init: MWL

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A,B	A,B	A,B	A,B	A,B	A,B				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: DP Date/Time: 8/29/14 08:09 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1420050-01	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 11:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW1d	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420050-02	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 12:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW2s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420050-03	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 11:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW6s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420050-04	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 10:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW7s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1420050-05	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 09:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW8s	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1420050-06	COC Number:	---	Receive Date:	08/28/2014 22:15
	Project Number:	---	Sampling Date:	08/28/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	#7 Field Duplicate	Lab Matrix:	Water
	Sampled By:	Del-Tech/ Stacy	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420050-01	Client Sample Name: TON-MW1d, 8/28/2014 11:35:00AM, Del-Tech/ Stacy
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	100	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	140	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	330	mg/L	0.50	0.051	EPA-200.7	0.061		1
Dissolved Potassium	110	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	1200	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	430	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	0.47	mg/L	1.0	0.25	EPA-300.0	ND	J,A10	4
Sulfate	58	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1800	mg/L	100	100	SM-2540C	ND		5
Total Kjeldahl Nitrogen	50	mg/L	5.0	1.3	EPA-351.2	ND	A01	6
Ammonia as N	47	mg/L	5.0	1.6	EPA-350.1	2.0	A01	7
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		8
Total Phosphate	ND	mg/L	0.75	0.46	EPA-365.4	0.53	A01	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:41	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 14:14	RML	MET-1	2	BXI0183
3	EPA-300.0	08/29/14	08/30/14 16:16	OLH	IC2	5	BXI0041
4	EPA-300.0	08/29/14	08/30/14 03:41	LD1	IC2	10	BXI0041
5	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	10	BXI0368
6	EPA-351.2	09/12/14	09/15/14 16:49	JP1	SC-1	25	BXI1174
7	EPA-350.1	09/12/14	09/15/14 13:03	JP1	SC-1	50	BXI1230
8	EPA-353.2	08/29/14	08/29/14 15:10	TDC	KONE-1	1	BXH2951
9	EPA-365.4	09/12/14	09/15/14 14:56	JP1	SC-1	5	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420050-02	Client Sample Name: TON-MW2s, 8/28/2014 12:05:00PM, Del-Tech/ Stacy
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	100	mg/L	0.20	0.032	EPA-200.7	ND	A01	1
Dissolved Magnesium	220	mg/L	0.10	0.038	EPA-200.7	ND	A01	1
Dissolved Sodium	820	mg/L	1.0	0.10	EPA-200.7	0.12	A01	1
Dissolved Potassium	67	mg/L	2.0	0.20	EPA-200.7	ND	A01	1
Bicarbonate Alkalinity as CaCO3	1500	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	780	mg/L	5.0	0.67	EPA-300.0	ND	A01	3
Nitrate as N	14	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	320	mg/L	10	1.8	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	3400	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	2.7	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.42	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	0.55	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	4.4	mg/L	0.15	0.092	EPA-365.4	0.11		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/15/14 03:40	JRG	PE-OP2	2	BXI1268
2	SM-2320B	09/04/14	09/04/14 15:03	RML	MET-1	2	BXI0184
3	EPA-300.0	08/29/14	08/30/14 04:34	LD1	IC2	10	BXI0041
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	20	BXI0368
5	EPA-351.2	09/12/14	09/15/14 16:31	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 12:07	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:14	TDC	KONE-1	1	BXH2951
8	EPA-365.4	09/12/14	09/15/14 14:56	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420050-03	Client Sample Name: TON-MW6s, 8/28/2014 11:09:00AM, Del-Tech/ Stacy
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	84	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	110	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	380	mg/L	0.50	0.051	EPA-200.7	0.061		1
Dissolved Potassium	28	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	750	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	320	mg/L	5.0	0.67	EPA-300.0	ND	A01	3
Nitrate as N	22	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	220	mg/L	10	1.8	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		4
Total Kjeldahl Nitrogen	1.2	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	0.054	mg/L	0.10	0.033	EPA-350.1	0.039	J	6
Nitrite as N	0.46	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	5.9	mg/L	0.15	0.092	EPA-365.4	0.11		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:16	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 15:28	RML	MET-1	2	BXI0184
3	EPA-300.0	08/29/14	08/30/14 03:23	LD1	IC2	10	BXI0041
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	10	BXI0368
5	EPA-351.2	09/12/14	09/15/14 16:32	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 12:08	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:14	TDC	KONE-1	1	BXH2951
8	EPA-365.4	09/12/14	09/15/14 14:57	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420050-04		Client Sample Name: TON-MW7s, 8/28/2014 10:45:00AM, Del-Tech/ Stacy						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	27	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	36	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	0.061		1
Dissolved Potassium	1.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	320	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	150	mg/L	2.5	0.34	EPA-300.0	ND	A01	3
Nitrate as N	0.20	mg/L	0.50	0.12	EPA-300.0	ND	J,A10	3
Sulfate	72	mg/L	5.0	0.90	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	740	mg/L	50	50	SM-2540C	ND		4
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	0.055	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	0.27	mg/L	0.15	0.092	EPA-365.4	0.11		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:18	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 15:38	RML	MET-1	2	BXI0184
3	EPA-300.0	08/29/14	08/30/14 02:48	LD1	IC2	5	BXI0041
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	5	BXI0368
5	EPA-351.2	09/12/14	09/15/14 16:32	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 12:09	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:14	TDC	KONE-1	1	BXH2951
8	EPA-365.4	09/12/14	09/15/14 14:57	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1420050-05		Client Sample Name: TON-MW8s, 8/28/2014 9:44:00AM, Del-Tech/ Stacy						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	100	mg/L	0.10	0.016	EPA-200.7	ND		1
Dissolved Magnesium	140	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	630	mg/L	0.50	0.051	EPA-200.7	0.061		1
Dissolved Potassium	4.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate Alkalinity as CaCO3	870	mg/L	8.2	8.2	SM-2320B	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	590	mg/L	5.0	0.67	EPA-300.0	ND	A01	3
Nitrate as N	30	mg/L	1.0	0.25	EPA-300.0	ND	A01	3
Sulfate	460	mg/L	10	1.8	EPA-300.0	ND	A01	3
Total Dissolved Solids @ 180 C	2800	mg/L	200	200	SM-2540C	ND		4
Total Kjeldahl Nitrogen	0.58	mg/L	0.20	0.053	EPA-351.2	ND		5
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6
Nitrite as N	0.052	mg/L	0.050	0.010	EPA-353.2	ND		7
Total Phosphate	1.1	mg/L	0.15	0.092	EPA-365.4	0.11		8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:21	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 15:44	RML	MET-1	2	BXI0184
3	EPA-300.0	08/29/14	08/30/14 02:13	LD1	IC2	10	BXI0041
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	20	BXI0368
5	EPA-351.2	09/12/14	09/15/14 16:34	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 12:11	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:14	TDC	KONE-1	1	BXH2951
8	EPA-365.4	09/12/14	09/15/14 14:58	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID:	1420050-06	Client Sample Name:	#7 Field Duplicate, 8/28/2014 12:00:00AM, Del-Tech/ Stacy						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Dissolved Calcium	27	mg/L	0.10	0.016	EPA-200.7	ND		1	
Dissolved Magnesium	36	mg/L	0.050	0.019	EPA-200.7	ND		1	
Dissolved Sodium	180	mg/L	0.50	0.051	EPA-200.7	0.061		1	
Dissolved Potassium	1.1	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate Alkalinity as CaCO3	320	mg/L	8.2	8.2	SM-2320B	ND		2	
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	SM-2320B	ND		2	
Chloride	150	mg/L	2.5	0.34	EPA-300.0	ND	A01	3	
Nitrate as N	ND	mg/L	0.50	0.12	EPA-300.0	ND	A10	3	
Sulfate	73	mg/L	5.0	0.90	EPA-300.0	ND	A01	3	
Total Dissolved Solids @ 180 C	740	mg/L	50	50	SM-2540C	ND		4	
Total Kjeldahl Nitrogen	ND	mg/L	0.20	0.053	EPA-351.2	ND		5	
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.039		6	
Nitrite as N	0.055	mg/L	0.050	0.010	EPA-353.2	ND		7	
Total Phosphate	0.28	mg/L	0.15	0.092	EPA-365.4	0.11		8	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	09/08/14	09/13/14 02:24	JRG	PE-OP2	1	BXI1268
2	SM-2320B	09/04/14	09/04/14 15:52	RML	MET-1	2	BXI0184
3	EPA-300.0	08/29/14	08/30/14 02:30	LD1	IC2	5	BXI0041
4	SM-2540C	09/04/14	09/04/14 13:20	NW1	MANUAL	5	BXI0368
5	EPA-351.2	09/12/14	09/15/14 16:34	JP1	SC-1	1	BXI1174
6	EPA-350.1	09/12/14	09/15/14 12:13	JP1	SC-1	1	BXI1230
7	EPA-353.2	08/29/14	08/29/14 15:14	TDC	KONE-1	1	BXH2951
8	EPA-365.4	09/12/14	09/15/14 14:58	JP1	SC-1	1	BXI1175

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2951						
Nitrite as N	BXH2951-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXI0041						
Chloride	BXI0041-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXI0041-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXI0041-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXI0183						
Bicarbonate Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0183-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0184						
Bicarbonate Alkalinity as CaCO3	BXI0184-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BXI0184-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BXI0184-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXI0368						
Total Dissolved Solids @ 180 C	BXI0368-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXI1174						
Total Kjeldahl Nitrogen	BXI1174-BLK1	ND	mg/L	0.20	0.053	
QC Batch ID: BXI1175						
Total Phosphate	BXI1175-BLK1	0.10670	mg/L	0.15	0.092	J
QC Batch ID: BXI1230						
Ammonia as N	BXI1230-BLK1	0.039400	mg/L	0.10	0.033	J
QC Batch ID: BXI1268						
Dissolved Calcium	BXI1268-BLK1	ND	mg/L	0.10	0.016	
Dissolved Magnesium	BXI1268-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BXI1268-BLK1	0.061131	mg/L	0.50	0.051	J
Dissolved Potassium	BXI1268-BLK1	ND	mg/L	1.0	0.10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXH2951										
Nitrite as N	BXH2951-BS1	LCS	0.50855	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXI0041										
Chloride	BXI0041-BS1	LCS	50.473	50.000	mg/L	101		90 - 110		
Nitrate as N	BXI0041-BS1	LCS	5.0150	5.0000	mg/L	100		90 - 110		
Sulfate	BXI0041-BS1	LCS	100.65	100.00	mg/L	101		90 - 110		
QC Batch ID: BXI0368										
Total Dissolved Solids @ 180 C	BXI0368-BS1	LCS	545.00	586.00	mg/L	93.0		90 - 110		
QC Batch ID: BXI1174										
Total Kjeldahl Nitrogen	BXI1174-BS1	LCS	2.0164	2.0000	mg/L	101		90 - 110		
QC Batch ID: BXI1175										
Total Phosphate	BXI1175-BS1	LCS	3.3195	3.0660	mg/L	108		85 - 115		
QC Batch ID: BXI1230										
Ammonia as N	BXI1230-BS1	LCS	0.95170	1.0000	mg/L	95.2		90 - 110		
QC Batch ID: BXI1268										
Dissolved Calcium	BXI1268-BS1	LCS	9.7848	10.000	mg/L	97.8		85 - 115		
Dissolved Magnesium	BXI1268-BS1	LCS	10.350	10.000	mg/L	104		85 - 115		
Dissolved Sodium	BXI1268-BS1	LCS	9.6583	10.000	mg/L	96.6		85 - 115		
Dissolved Potassium	BXI1268-BS1	LCS	9.5030	10.000	mg/L	95.0		85 - 115		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXH2951		Used client sample: Y - Description: TON-MW1d, 08/28/2014 11:35								
Nitrite as N	DUP	1420050-01	ND	ND		mg/L			10	
	MS	1420050-01	ND	0.53776	0.52632	mg/L		102		90 - 110
	MSD	1420050-01	ND	0.53934	0.52632	mg/L	0.3	102	10	90 - 110
QC Batch ID: BXI0041		Used client sample: Y - Description: TON-MW1d, 08/28/2014 11:35								
Chloride	DUP	420050-01RE	434.98	433.18		mg/L	0.4		10	
	MS	420050-01RE	434.98	697.14	252.53	mg/L		104		80 - 120
	MSD	420050-01RE	434.98	696.07	252.53	mg/L	0.2	103	10	80 - 120
Nitrate as N	DUP	420050-01RE	0.15500	0.17000		mg/L	9.2		10	J
	MS	420050-01RE	0.15500	25.263	25.253	mg/L		99.4		80 - 120
	MSD	420050-01RE	0.15500	25.096	25.253	mg/L	0.7	98.8	10	80 - 120
Sulfate	DUP	420050-01RE	58.385	58.715		mg/L	0.6		10	
	MS	420050-01RE	58.385	574.89	505.05	mg/L		102		80 - 120
	MSD	420050-01RE	58.385	576.05	505.05	mg/L	0.2	102	10	80 - 120
QC Batch ID: BXI0183		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Bicarbonate Alkalinity as CaCO3	DUP	1420048-01	788.96	793.22		mg/L	0.5		10	
Carbonate Alkalinity as CaCO3	DUP	1420048-01	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1420048-01	ND	ND		mg/L			10	
QC Batch ID: BXI0184		Used client sample: Y - Description: TON-MW2s, 08/28/2014 12:05								
Bicarbonate Alkalinity as CaCO3	DUP	1420050-02	1450.1	1461.1		mg/L	0.8		10	
Carbonate Alkalinity as CaCO3	DUP	1420050-02	ND	ND		mg/L			10	
Hydroxide Alkalinity as CaCO3	DUP	1420050-02	ND	ND		mg/L			10	
QC Batch ID: BXI0368		Used client sample: Y - Description: TON-MW1d, 08/28/2014 11:35								
Total Dissolved Solids @ 180 C	DUP	1420050-01	1820.0	1820.0		mg/L	0		10	
QC Batch ID: BXI1174		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Total Kjeldahl Nitrogen	DUP	1420048-01	0.53220	0.38800		mg/L	31.3		20	A02
	MS	1420048-01	0.53220	2.3037	2.0000	mg/L		88.6		90 - 110 Q03
	MSD	1420048-01	0.53220	2.3939	2.0000	mg/L	3.8	93.1	20	90 - 110
QC Batch ID: BXI1175		Used client sample: Y - Description: NUN-MW1s, 08/28/2014 16:03								
Total Phosphate	DUP	1420048-01	0.15362	0.22690		mg/L	38.5		20	A02
	MS	1420048-01	0.15362	3.4642	3.0660	mg/L		108		80 - 120
	MSD	1420048-01	0.15362	3.4013	3.0660	mg/L	1.8	106	20	80 - 120
QC Batch ID: BXI1230		Used client sample: Y - Description: COR-MW2s, 08/28/2014 14:21								
Ammonia as N	DUP	1420049-02	ND	ND		mg/L			10	
	MS	1420049-02	ND	1.1461	1.1111	mg/L		103		90 - 110
	MSD	1420049-02	ND	1.1191	1.1111	mg/L	2.4	101	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BX11268		Used client sample: Y - Description: TON-MW1d, 08/28/2014 11:35								
Dissolved Calcium	DUP	1420050-01	100.53	100.32		mg/L	0.2		20	
	MS	1420050-01	100.53	108.13	10.204	mg/L		74.5		85 - 115 A03
	MSD	1420050-01	100.53	107.28	10.204	mg/L	0.8	66.2	20	85 - 115 A03
Dissolved Magnesium	DUP	1420050-01	141.17	141.04		mg/L	0.1		20	
	MS	1420050-01	141.17	148.78	10.204	mg/L		74.6		85 - 115 A03
	MSD	1420050-01	141.17	148.12	10.204	mg/L	0.4	68.0	20	85 - 115 A03
Dissolved Sodium	DUP	1420050-01	333.34	332.86		mg/L	0.1		20	
	MS	1420050-01	333.34	337.10	10.204	mg/L		36.9		85 - 115 A03
	MSD	1420050-01	333.34	337.63	10.204	mg/L	0.2	42.1	20	85 - 115 A03
Dissolved Potassium	DUP	1420050-01	114.59	114.68		mg/L	0.1		20	
	MS	1420050-01	114.59	122.50	10.204	mg/L		77.6		85 - 115 A03
	MSD	1420050-01	114.59	121.44	10.204	mg/L	0.9	67.2	20	85 - 115 A03

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 09/18/2014 16:38
Project: Dairy Rep MP - Expanded Suite
Project Number: Tony L. Lopes Dairy LP - Annual
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.

Attachment B7

Laboratory Reports, 2014Q4

2014Q4

North Area



Date of Report: 11/21/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Brentwood Farms
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426775
Invoice ID: B189337

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426775

Samples were filtered through a 0.45 micron filter prior to analysis.



14-26775

BC Laboratories, Inc.		Chain of Custody					
4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911							
Report to:							
Reduced Constituent Suite							
Name: Blaine Tech Services	Project: Daily Representative Monitoring Program	Analysis Requested					
Address: 4731 Pell Drive #5	Site: Brentwood Farms	From Filtered Sample:					
City: Sacramento	Samplers Name: T. Boll	Ammonia-N, NO3-N					
State: CA	Global ID -	Total Dissolved Solids					
Zip: 95838							
Attn: David Webb (916) 925-2913 x102							
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1, P6 Unpreserved	CHK BY	DISTRIBUTION
-1	BRE-MW1s, BRE-MW4s	11/10/14	1010		x	[Signature]	
-2	BRE-MW2s, BRE-MW3s		0935		x	[Signature]	
-3	BRE-MW3s, BRE-MW4s		1110		x	[Signature]	
4	Field Duplicate				x		SUB-OUT
5							
6							
7							
8							
9							
10							
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lohdorff and Scalmanini Consulting Engineers via email: llavagnino@lisce.com, rbryson@lisce.com, pdhalilwal@lisce.com 4) Send bill to Blaine Tech Services, only.						Received By: [Signature] Date & Time: 11/14/14 Received By: [Signature] Date & Time:	
Relinquished by: (Signature) [Signature]						Received By: [Signature] Date & Time:	
Relinquished by: (Signature) [Signature]						Received By: [Signature] Date & Time:	
Relinquished by: (Signature) [Signature]						Received By: [Signature] Date & Time:	

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 1

Submission #: 14-26775
SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other (Specify)
SHIPPING CONTAINER: Ice Chest, None, Box, Other (Specify)
FREE LIQUID: YES, NO

Refrigerant: Ice, Blue Ice, None, Other
Custody Seals: Ice Chest, Containers, None

All samples received? YES, NO
All samples containers intact? YES, NO
Description(s) match COC? YES, NO
COC Received: YES, NO
Emissivity: 0.98, Container: PE, Thermometer ID: 207, Date/Time: 11/11/14, Analyst Init: [Signature]
Temperature: (A) 1.1 C, (C) 0.7 C

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments:
Sample Numbering Completed By: [Signature] Date/Time: 11/11/14 2900
A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426775-01	COC Number:	---	Receive Date:	11/11/2014 08:35
	Project Number:	---	Sampling Date:	11/10/2014 10:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BRE-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426775-02	COC Number:	---	Receive Date:	11/11/2014 08:35
	Project Number:	---	Sampling Date:	11/10/2014 09:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BRE-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426775-03	COC Number:	---	Receive Date:	11/11/2014 08:35
	Project Number:	---	Sampling Date:	11/10/2014 11:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BRE-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426775-01	Client Sample Name: BRE-MW1s, 11/10/2014 10:20:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	3.8	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	230	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 20:08	BMW	IC2	1	BXK1025
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	2	BXK1253
3	EPA-350.1	11/20/14	11/20/14 12:56	JP1	SC-1	1	BXK1736

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426775-02	Client Sample Name: BRE-MW2s, 11/10/2014 9:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.8	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	210	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 21:18	BMW	IC2	1	BXK1025
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	2	BXK1253
3	EPA-350.1	11/20/14	11/20/14 13:03	JP1	SC-1	1	BXK1736

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426775-03	Client Sample Name: BRE-MW3s, 11/10/2014 11:10:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.6	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	190	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 21:36	BMW	IC2	1	BXK1025
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	2	BXK1253
3	EPA-350.1	11/20/14	11/20/14 13:05	JP1	SC-1	1	BXK1736

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1025						
Nitrate as N	BXK1025-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1253						
Total Dissolved Solids @ 180 C	BXK1253-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1736						
Ammonia as N	BXK1736-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1025										
Nitrate as N	BXK1025-BS1	LCS	5.1330	5.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1253										
Total Dissolved Solids @ 180 C	BXK1253-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1736										
Ammonia as N	BXK1736-BS1	LCS	1.0015	1.0000	mg/L	100		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXK1025		Used client sample: Y - Description: BRE-MW1s, 11/10/2014 10:20									
Nitrate as N	DUP	1426775-01	3.7970	3.7710		mg/L	0.7		10		
	MS	1426775-01	3.7970	9.4030	5.0505	mg/L		111		80 - 120	
	MSD	1426775-01	3.7970	9.3879	5.0505	mg/L	0.2	111	10	80 - 120	
QC Batch ID: BXK1253		Used client sample: Y - Description: RIC-MW1, 11/10/2014 15:15									
Total Dissolved Solids @ 180 C	DUP	1426732-01	970.00	985.00		mg/L	1.5		10		
QC Batch ID: BXK1736		Used client sample: Y - Description: BRE-MW1s, 11/10/2014 10:20									
Ammonia as N	DUP	1426775-01	ND	ND		mg/L			10		
	MS	1426775-01	ND	1.2353	1.1111	mg/L		111		90 - 110	Q03
	MSD	1426775-01	ND	1.1772	1.1111	mg/L	4.8	106	10	90 - 110	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 13:15
Project: Dairy Representative Monitoring Program
Project Number: Brentwood Farms
Project Manager: Dave Webb

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 12/01/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Creekside Silveira Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426776
Invoice ID: B189778

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426776

Samples were filtered through a 0.45 micron filter prior to analysis.



14-26776

BC Laboratories, Inc.

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

Chain of Custody

Analysis Requested

Report to:

Name: Blaine Tech Services		Reduced Constituent Suite		From Filtered Sample:		
Address: 4731 Pell Drive #5		Project: Dairy Representative Monitoring Program		Ammonia-N, NO ₃ -N, Total Dissolved Solids		
City: Sacramento		Site: Creekside Silveira Dairy		DO Cl ₂ BOD MBAS COT		
State: Zip: 95838		Samplers Name: T. Boll		CHK BY [Signature]		
Attn: David Webb (916) 925-2913 x102		Global ID -		SUB-OUT []		
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1, P6 Unpreserved	SHORT HOLDING TIME Cr+6 NO ₂ (NO ₃) OP SS
-1	CRE-MW1s, GRE-MW1d	11/10/14	1445		x	
-2	CRE-MW2s, GRE-MW2d		1525		x	
-3	CRE-MW3s, GRE-MW3d		1655		x	
-4	Field Duplicate				x	
5						
6						
7						
8						
9						
10						

Comments:

- 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
- 3) Send lab reports to Luhdorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rlbyson@lscce.com, pdhalliwa@lscce.com
- 4) Send bill to Blaine Tech Services, only.

Relinquished by: (Signature)

[Signature]

Received By:

[Signature] 11/11/14 08:35

Date & Time

Date & Time

Date & Time

Received By:

Relinquished by: (Signature)

(A)= Analysis (C)= Container (P)= Preservative



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26776

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) *MWAL*

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: *0.98* Container: *PE* Thermometer ID: *207* Date/Time: *11/11/14 08:35*
 Temperature: (A) *1.1* °C (C) *0.7* °C Analyst Init: *MW*

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/ NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: *[Signature]* Date/Time: *11/11/14 8:30* (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1426776-01	COC Number: ---	Receive Date: 11/11/2014 08:35
	Project Number: ---	Sampling Date: 11/10/2014 14:45
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: CRE-MW1s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Water
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426776-02	COC Number: ---	Receive Date: 11/11/2014 08:35
	Project Number: ---	Sampling Date: 11/10/2014 15:25
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: CRE-MW2s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Water
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426776-03	COC Number: ---	Receive Date: 11/11/2014 08:35
	Project Number: ---	Sampling Date: 11/10/2014 16:05
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: CRE-MW3s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Water
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426776-04	COC Number: ---	Receive Date: 11/11/2014 08:35
	Project Number: ---	Sampling Date: 11/10/2014 00:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Field Duplicate	Lab Matrix: Water
	Sampled By: ---	Sample Type: Water
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426776-01	Client Sample Name: CRE-MW1s, 11/10/2014 2:45:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.3	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	760	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/11/14 21:53	BMW	IC2	1	BXK1025
2	SM-2540C	11/15/14	11/15/14 09:30	CAD	MANUAL	3.333	BXK1296
3	EPA-350.1	11/20/14	11/20/14 13:05	JP1	SC-1	1	BXK1736

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426776-02	Client Sample Name: CRE-MW2s, 11/10/2014 3:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	15	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	480	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 22:11	BMW	IC2	1	BXK1025
2	SM-2540C	11/15/14	11/15/14 09:30	CAD	MANUAL	2	BXK1296
3	EPA-350.1	11/20/14	11/20/14 13:07	JP1	SC-1	1	BXK1736

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426776-03	Client Sample Name: CRE-MW3s, 11/10/2014 4:05:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.36	mg/L	0.20	0.036	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	920	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 23:04	BMW	IC2	2	BXK1025
2	SM-2540C	11/15/14	11/15/14 09:30	CAD	MANUAL	5	BXK1296
3	EPA-350.1	11/20/14	11/20/14 13:07	JP1	SC-1	1	BXK1736

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426776-04	Client Sample Name: Field Duplicate, 11/10/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	15	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	440	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 23:21	BMW	IC2	1	BXK1025
2	SM-2540C	11/15/14	11/15/14 09:30	CAD	MANUAL	2	BXK1296
3	EPA-350.1	11/20/14	11/20/14 13:08	JP1	SC-1	1	BXK1736

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1025						
Nitrate as N	BXK1025-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1296						
Total Dissolved Solids @ 180 C	BXK1296-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1736						
Ammonia as N	BXK1736-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1025										
Nitrate as N	BXK1025-BS1	LCS	5.1330	5.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1296										
Total Dissolved Solids @ 180 C	BXK1296-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXK1736										
Ammonia as N	BXK1736-BS1	LCS	1.0015	1.0000	mg/L	100		90 - 110		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1025		Used client sample: Y - Description: BRE-MW1s, 11/10/2014 10:20								
Nitrate as N	DUP	1426775-01	3.7970	3.7710		mg/L	0.7		10	
	MS	1426775-01	3.7970	9.4030	5.0505	mg/L		111		80 - 120
	MSD	1426775-01	3.7970	9.3879	5.0505	mg/L	0.2	111	10	80 - 120
QC Batch ID: BXK1296		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426795-01	41100	41400		mg/L	0.7		10	
QC Batch ID: BXK1736		Used client sample: Y - Description: BRE-MW1s, 11/10/2014 10:20								
Ammonia as N	DUP	1426775-01	ND	ND		mg/L			10	
	MS	1426775-01	ND	1.2353	1.1111	mg/L		111		90 - 110 Q03
	MSD	1426775-01	ND	1.1772	1.1111	mg/L	4.8	106	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Creekside Silveira Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A10 PQL's and MDL's were raised due to matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 11/26/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: MTSJ Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426777
Invoice ID: B189696

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Case Narratives

Case Narrative for Work Order 1426777

Samples were filtered through a 0.45 micron filter prior to analysis.



14-26777

BC Laboratories, Inc.

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

Chain of Custody

Report to:

Name: Blaine Tech Services
Address: 4731 Pell Drive #5
City: Sacramento
State: CA Zip: 95838
Attn: David Webb (916) 925-2913 x102
Project: Dairy Representative Monitoring Program
Site: MTSJ Dairy
Samplers Name: T. Boll
Global ID -

Analysis Requested

From Filtered Sample:
Ammonia-N, NO3-N,
Total Dissolved Solids

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Analysis Requested	
					Cl, Pe Unpreserved	Other
1	MTS-MW1	11/15/14	1315		x	
2	MTS-MW2s, MTS-MW2d				x	
3	MTS-MW3e, MTS-MW3f, MTS-MW3g				x	
4	Pit/duplicate				x	
5	M75-MW3d		1230		x	
6						
7						
8						
9						
10						

CHK BY: [Signature]
DISTRIBUTION: [Signature]
SUB-OUT: [Signature]

SHORT HOLDING TIME
Cl+8 NO2 NO3 OF SS
DO Cl2 BOD MBAS COT

Comments:

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Lohdorff and Scalmani Consulting Engineers via email: llavagnino@lsce.com, rlryson@lsce.com, pdhalival@lsce.com
- Send bill to Blaine Tech Services, only.

Relinquished by: (Signature) [Signature]

Relinquished by: (Signature) [Signature]

Relinquished by: (Signature) [Signature]

Received By: [Signature] Date & Time: 11/14/14

Received by: [Signature] Date & Time: 11/14/14

Received By: [Signature] Date & Time: 11/14/14

(A)= Analysis (C)= Container (P)= Preservative



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 of 2

Submission #: 14-26777

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other (Specify) MTRAC. SHIPPING CONTAINER: Ice Chest, None, Box, Other (Specify). FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98. Container: PE. Thermometer ID: 207. Date/Time: 11/11/14 08:35. Analyst Init: WMB. Temperature: (A) 1.1 C, (C) 0.7 C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 11/11/14 0900 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC) A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/26/2014 15:04
Project: Dairy Representative Monitoring Program
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426777-01	COC Number:	---	Receive Date:	11/11/2014 08:35
	Project Number:	---	Sampling Date:	11/10/2014 13:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MTS-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1426777-02	COC Number:	---	Receive Date:	11/11/2014 08:35
	Project Number:	---	Sampling Date:	11/10/2014 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MTS-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/26/2014 15:04
Project: Dairy Representative Monitoring Program
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426777-01	Client Sample Name: MTS-MW1, 11/10/2014 1:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	470	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/11/14 23:39	BMW	IC2	1	BXK1025
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	3.333	BXK1256
3	EPA-350.1	11/20/14	11/20/14 13:12	JP1	SC-1	1	BXK1737

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/26/2014 15:04
Project: Dairy Representative Monitoring Program
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426777-02	Client Sample Name: MTS-MW3d, 11/10/2014 12:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	31	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	540	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/12/14 04:21	OLH	IC2	2	BXK1025
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	3.333	BXK1257
3	EPA-350.1	11/20/14	11/20/14 13:17	JP1	SC-1	1	BXK1737

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/26/2014 15:04
Project: Dairy Representative Monitoring Program
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1025						
Nitrate as N	BXK1025-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1256						
Total Dissolved Solids @ 180 C	BXK1256-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1257						
Total Dissolved Solids @ 180 C	BXK1257-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1737						
Ammonia as N	BXK1737-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/26/2014 15:04
Project: Dairy Representative Monitoring Program
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1025										
Nitrate as N	BXK1025-BS1	LCS	5.1330	5.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1256										
Total Dissolved Solids @ 180 C	BXK1256-BS1	LCS	595.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BXK1257										
Total Dissolved Solids @ 180 C	BXK1257-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXK1737										
Ammonia as N	BXK1737-BS1	LCS	1.0272	1.0000	mg/L	103		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/26/2014 15:04
Project: Dairy Representative Monitoring Program
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXK1025		Used client sample: Y - Description: BRE-MW1s, 11/10/2014 10:20									
Nitrate as N	DUP	1426775-01	3.7970	3.7710		mg/L	0.7		10		
	MS	1426775-01	3.7970	9.4030	5.0505	mg/L		111		80 - 120	
	MSD	1426775-01	3.7970	9.3879	5.0505	mg/L	0.2	111	10	80 - 120	
QC Batch ID: BXK1256		Used client sample: N									
Total Dissolved Solids @ 180 C	DUP	1426745-01	975.00	975.00		mg/L	0		10		
QC Batch ID: BXK1257		Used client sample: N									
Total Dissolved Solids @ 180 C	DUP	1426746-01	1195.0	1210.0		mg/L	1.2		10		
QC Batch ID: BXK1737		Used client sample: Y - Description: MTS-MW1, 11/10/2014 13:15									
Ammonia as N	DUP	1426777-01	ND	ND		mg/L			10		
	MS	1426777-01	ND	1.0879	1.1111	mg/L		97.9		90 - 110	
	MSD	1426777-01	ND	1.1173	1.1111	mg/L	2.7	101	10	90 - 110	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/26/2014 15:04
Project: Dairy Representative Monitoring Program
Project Number: MTSJ Dairy
Project Manager: Dave Webb

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.

South Area



Date of Report: 12/01/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Aukeman Farms
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426867
Invoice ID: B189789

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426867

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 14-26867 Report to:		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Analysis Requested					
Name: Blaine Tech Services Address: 4731 Pell Drive #5 City: Sacramento State: Zip: 95838 CA Attn: David Webb (916) 925-2913 x102		Project: Dairy Representative Monitoring Program Site: Aukeman Farms Samplers Name: T. Boll Global ID -		From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids	
Reduced Constituent Suite		Matrix: GW		Ct/Re Unpreserved	
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled		
1	AUK-MW1	11/11/14	1500	x	x
2	AUK-MW2		1630	x	x
3	AUK-MW3		1540	x	x
4	Field Duplicate (DUP-5)			x	x
5					
6					
7					
8					
9					
10					
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lunderoff and Scalmani Consulting Engineers via email: llavagnino@lisce.com, rbyson@lisce.com, pdhalliwal@lisce.com 4) Send bill to Blaine Tech Services, only.					
Relinquished by: (Signature) <i>T. Boll</i>		Relinquished by: (Signature) <i>[Signature]</i>		Received By: <i>[Signature]</i>	
Relinquished by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature) <i>[Signature]</i>		Received by: <i>[Signature]</i>	
Relinquished by: (Signature)		Relinquished by: (Signature)		Received by: <i>[Signature]</i>	
				Date & Time: 11-11-14 20:35	
				Date & Time: 11-11-14 265	
				Date & Time:	

SHORT HOLDING TIME
 Ct-6 NO2 NO3 OP SS
 DO Cl, BOD MBAS COT
 CHK BY: *[Signature]*
 DISTRIBUTION
 SUB-OUT



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26867

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98, Container: PB, Thermometer ID: 107, Date/Time: 11-14-11, Analyst Init: M. Temperature: (A) 0.6, (C) 0.2.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: M Date/Time: 11-14-11 0002 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1426867-01	COC Number: ---	Receive Date: 11/11/2014 21:55
	Project Number: ---	Sampling Date: 11/11/2014 15:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: AUK-MW1	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426867-02	COC Number: ---	Receive Date: 11/11/2014 21:55
	Project Number: ---	Sampling Date: 11/11/2014 16:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: AUK-MW2	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426867-03	COC Number: ---	Receive Date: 11/11/2014 21:55
	Project Number: ---	Sampling Date: 11/11/2014 15:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: AUK-MW3	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426867-04	COC Number: ---	Receive Date: 11/11/2014 21:55
	Project Number: ---	Sampling Date: 11/11/2014 00:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Field Duplicate (Dup-5)	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426867-01	Client Sample Name: AUK-MW1, 11/11/2014 3:00:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	47	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 18:33	BMW	IC2	5	BXK1112
2	SM-2540C	11/15/14	11/15/14 12:30	CAD	MANUAL	5	BXK1301
3	EPA-350.1	11/20/14	11/20/14 13:39	JP1	SC-1	1	BXK1738

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426867-02	Client Sample Name: AUK-MW2, 11/11/2014 4:20:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	31	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 15:18	BMW	IC2	2	BXK1112
2	SM-2540C	11/15/14	11/15/14 12:30	CAD	MANUAL	5	BXK1301
3	EPA-350.1	11/20/14	11/20/14 13:41	JP1	SC-1	1	BXK1738

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426867-03	Client Sample Name: AUK-MW3, 11/11/2014 3:40:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	47	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 15:36	BMW	IC2	5	BXK1112
2	SM-2540C	11/15/14	11/15/14 12:30	CAD	MANUAL	5	BXK1301
3	EPA-350.1	11/20/14	11/20/14 13:41	JP1	SC-1	1	BXK1738

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426867-04	Client Sample Name: Field Duplicate (Dup-5), 11/11/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	46	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 15:54	BMW	IC2	5	BXK1112
2	SM-2540C	11/15/14	11/15/14 12:30	CAD	MANUAL	5	BXK1301
3	EPA-350.1	11/20/14	11/20/14 16:25	JP1	SC-1	1	BXK1835

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1112						
Nitrate as N	BXK1112-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1301						
Total Dissolved Solids @ 180 C	BXK1301-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1738						
Ammonia as N	BXK1738-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1835						
Ammonia as N	BXK1835-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BXK1112											
Nitrate as N	BXK1112-BS1	LCS	5.4400	5.0000	mg/L	109		90	110		
QC Batch ID: BXK1301											
Total Dissolved Solids @ 180 C	BXK1301-BS1	LCS	550.00	586.00	mg/L	93.9		90	110		
QC Batch ID: BXK1738											
Ammonia as N	BXK1738-BS1	LCS	1.0139	1.0000	mg/L	101		90	110		
QC Batch ID: BXK1835											
Ammonia as N	BXK1835-BS1	LCS	0.97780	1.0000	mg/L	97.8		90	110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: BXK1112		Used client sample: Y - Description: AUK-MW1, 11/11/2014 15:00									
Nitrate as N	DUP	426867-01RE'	44.110	43.910		mg/L	0.5		10		
	MS	426867-01RE'	44.110	100.05	50.505	mg/L		111		80 - 120	
	MSD	426867-01RE'	44.110	99.374	50.505	mg/L	0.7	109	10	80 - 120	
QC Batch ID: BXK1301		Used client sample: N									
Total Dissolved Solids @ 180 C	DUP	1426853-02	1940.0	1910.0		mg/L	1.6		10		
QC Batch ID: BXK1738		Used client sample: N									
Ammonia as N	DUP	1426863-05	0.066600	0.076500		mg/L	13.8		10		J,A02
	MS	1426863-05	0.066600	1.1911	1.1111	mg/L		101		90 - 110	
	MSD	1426863-05	0.066600	1.1892	1.1111	mg/L	0.2	101	10	90 - 110	
QC Batch ID: BXK1835		Used client sample: Y - Description: Field Duplicate (Dup-5), 11/11/2014 00:00									
Ammonia as N	DUP	1426867-04	ND	ND		mg/L			10		
	MS	1426867-04	ND	1.1832	1.1111	mg/L		106		90 - 110	
	MSD	1426867-04	ND	1.1943	1.1111	mg/L	0.9	107	10	90 - 110	

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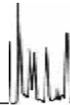


Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Aukeman Farms
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 12/01/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Dairyland Farms
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426869
Invoice ID: B189785

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426869

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 14-26869 Report to: Reduced Constituent Suite		Chain of Custody 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911			
Analysis Requested From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids					
Name:	Blaine Tech Services	Project:	Dairy Representative Monitoring Program		
Address:	4731 Pell Drive #5	Site:	Dairyland Farms		
City:	Sacramento	Samplers Name:	Seth Sarmiento		
State:	CA	Global ID:			
Zip:	95638				
Attn:	David Webb (916) 925-2913 x102				
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1/Pa Unpreserved
1	DLF-MW1				x
2	DLF-MW2				x
3	DLF-MW3				x
4	DLF-MW4A, DLF-MW4B				x
5	DLF-MW5A, DLF-MW5B DLF-MW5C				x
1/6	DLF-MW6A, DLF-MW6B DLF-MW6C, DLF-MW6D	11/11/14	0945	GW	x
7	Field Duplicate				x
8					
9					
10					
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lundorff and Scalmanni Consulting Engineers via email: llavagnino@isce.com, rbryson@isce.com, pdhalliwal@isce.com 4) Send bill to Blaine Tech Services, only.					
Relinquished by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature) <i>[Signature]</i>		
Relinquished by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature) <i>[Signature]</i>		
Relinquished by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature) <i>[Signature]</i>		
Received by: <i>[Signature]</i>			Received by: <i>[Signature]</i>		
Date & Time: 11-11-14 20:35			Date & Time: 11-11-14 20:35		
Received by: <i>[Signature]</i>			Received by: <i>[Signature]</i>		
Date & Time: 11-11-14 20:35			Date & Time: 11-11-14 20:35		

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 1426869

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98, Container: PB, Thermometer ID: 107, Date/Time: 11.14.14 2:55, Analyst Init: M, Temperature: (A) 0.6 C, (C) 0.2 C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 11/21/14 0005 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC) A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: Dairyland Farms
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426869-01	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 09:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DLF-MW6B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426869-01	Client Sample Name: DLF-MW6B, 11/11/2014 9:45:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	54	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	880	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.046	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 08:38	OLH	IC5	5	BXK1114
2	SM-2540C	11/15/14	11/15/14 09:30	CAD	MANUAL	5	BXK1296
3	EPA-350.1	11/20/14	11/20/14 13:59	JP1	SC-1	1	BXK1739

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1114						
Nitrate as N	BXK1114-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1296						
Total Dissolved Solids @ 180 C	BXK1296-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1739						
Ammonia as N	BXK1739-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1114										
Nitrate as N	BXK1114-BS1	LCS	5.4120	5.0000	mg/L	108		90 - 110		
QC Batch ID: BXK1296										
Total Dissolved Solids @ 180 C	BXK1296-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXK1739										
Ammonia as N	BXK1739-BS1	LCS	1.0529	1.0000	mg/L	105		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: Dairyland Farms
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1114		Used client sample: N								
Nitrate as N	DUP	1426828-03	0.75000	0.74400		mg/L	0.8		10	
	MS	1426828-03	0.75000	11.554	10.101	mg/L		107		80 - 120
	MSD	1426828-03	0.75000	11.588	10.101	mg/L	0.3	107	10	80 - 120
QC Batch ID: BXK1296		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426795-01	41100	41400		mg/L	0.7		10	
QC Batch ID: BXK1739		Used client sample: N								
Ammonia as N	DUP	1426865-01	0.059100	0.056600		mg/L	4.3		10	J
	MS	1426865-01	0.059100	1.1902	1.1111	mg/L		102		90 - 110
	MSD	1426865-01	0.059100	1.1497	1.1111	mg/L	3.5	98.2	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: Dairyland Farms
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 01/27/2015

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Giacomazzi Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427021
Invoice ID: B189979

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427021

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody			
Report to: Blaine Tech Services 4731 Pell Drive #5 Sacramento State: CA Zip: 95838 Atn: David Webb (916) 925-2913 x102					
Analysis Requested Reduced Constituent Suite Project: Dairy Representative Monitoring Program Site: Giacomazzi Dairy Samplers Name: Global ID -					
From Filtered Sample: Ammonia-N, NO3-N Total Dissolved Solids					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Cl/Pe Unpreserved
- 1	ZZ1-MW4A, ZZ1-MW4B ZZ1-MW1C, ZZ1-MW1D	11/12/14	1720	GW	x
- 2	ZZ1-MW2A, ZZ1-MW2B ZZ1-MW2C, ZZ1-MW2D		1610		x
- 3	ZZ1-MW3A, ZZ1-MW3A-A ZZ1-MW3B		1550		x
- 4	ZZ1-MW5A, ZZ1-MW5B ZZ1-MW5C, ZZ1-MW5D		1700		x
- 5	ZZ1-MW6A, ZZ1-MW6B ZZ1-MW6C, ZZ1-MW6D		1730		x
- 6	ZZ1-MW7A, ZZ1-MW7B ZZ1-MW7C, ZZ1-MW7D		1630		x
- 7	ZZ1-MW9A, ZZ1-MW9B ZZ1-MW9C, ZZ1-MW9D		1520		x
8	Field Duplicate				x
9					
10					
11					

SHORT HOLDING TIME
 C⁺6 NO₂ (NO₃) OP SS
 DO Cl₂ BOD MBAS COI
 CHK BY: DISTRIBUTION
 [Signature]

Relinquished by: (Signature)	Received By: (Signature)	Date & Time
[Signature]	[Signature]	11-12-14 21:05
Relinquished by: (Signature)	Received by: (Signature)	Date & Time
[Signature]	[Signature]	
Relinquished by: (Signature)	Received By: (Signature)	Date & Time
[Signature]	[Signature]	

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luthdorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pdhalliwal@lscce.com
 4) Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1427021

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: DE Thermometer ID: 201 Date/Time: 11/13/14 2335
 Temperature: (A) 2.4 °C / (C) 2.0 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A	C	A	A			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11/13/14 0110 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC)
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427021-01	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 17:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW1C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1427021-02	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 16:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW2A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1427021-03	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 15:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW3A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1427021-04	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 17:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW5D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1427021-05	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 17:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW6D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427021-06	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 16:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW7C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1427021-07	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 15:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZZI-MW9D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427021-01	Client Sample Name: ZZI-MW1C, 11/12/2014 5:20:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.7	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	330	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 07:08	OLH	IC5	1	BXK1229
2	SM-2540C	11/19/14	11/19/14 11:30	CAD	MANUAL	2	BXK1662
3	EPA-350.1	11/20/14	11/20/14 17:19	JP1	SC-1	1	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427021-02	Client Sample Name: ZZI-MW2A, 11/12/2014 4:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	32	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	2.9	mg/L	0.20	0.066	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 07:26	OLH	IC5	2	BXK1229
2	SM-2540C	11/19/14	11/19/14 11:30	CAD	MANUAL	10	BXK1662
3	EPA-350.1	11/20/14	11/20/14 17:53	JP1	SC-1	2	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427021-03	Client Sample Name: ZZI-MW3A, 11/12/2014 3:50:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	2400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	210	mg/L	20	6.6	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 08:18	OLH	IC5	1	BXK1229
2	SM-2540C	11/19/14	11/19/14 11:30	CAD	MANUAL	10	BXK1662
3	EPA-350.1	11/20/14	11/20/14 17:49	JP1	SC-1	200	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427021-04	Client Sample Name: ZZI-MW5D, 11/12/2014 5:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	71	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.21	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 08:53	OLH	IC5	5	BXK1229
2	SM-2540C	11/19/14	11/19/14 11:30	CAD	MANUAL	5	BXK1662
3	EPA-350.1	11/20/14	11/20/14 17:22	JP1	SC-1	1	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427021-05	Client Sample Name: ZZI-MW6D, 11/12/2014 5:30:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	21	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.040	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 10:38	OLH	IC5	2	BXK1229
2	SM-2540C	11/19/14	11/19/14 11:30	CAD	MANUAL	5	BXK1662
3	EPA-350.1	11/20/14	11/20/14 17:22	JP1	SC-1	1	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427021-06	Client Sample Name: ZZI-MW7C, 11/12/2014 4:30:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	13	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 10:55	OLH	IC5	1	BXK1229
2	SM-2540C	11/19/14	11/19/14 11:30	CAD	MANUAL	5	BXK1662
3	EPA-350.1	11/20/14	11/20/14 17:24	JP1	SC-1	1	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427021-07	Client Sample Name: ZZI-MW9D, 11/12/2014 3:20:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	6.6	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	330	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	0.054	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 11:13	OLH	IC5	1	BXK1229
2	SM-2540C	11/19/14	11/19/14 11:30	CAD	MANUAL	2	BXK1662
3	EPA-350.1	11/20/14	11/20/14 19:00	JP1	SC-1	1	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1229						
Nitrate as N	BXK1229-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1662						
Total Dissolved Solids @ 180 C	BXK1662-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1838						
Ammonia as N	BXK1838-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1229										
Nitrate as N	BXK1229-BS1	LCS	5.3810	5.0000	mg/L	108		90 - 110		
QC Batch ID: BXK1662										
Total Dissolved Solids @ 180 C	BXK1662-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1838										
Ammonia as N	BXK1838-BS1	LCS	1.0985	1.0000	mg/L	110		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: BXK1229		Used client sample: Y - Description: ZZI-MW1C, 11/12/2014 17:20									
Nitrate as N	DUP	427021-01RE	1.6670	1.6720		mg/L	0.3		10		
	MS	427021-01RE	1.6670	6.8485	5.0505	mg/L		103		80 - 120	
	MSD	427021-01RE	1.6670	6.8505	5.0505	mg/L	0.0	103	10	80 - 120	
QC Batch ID: BXK1662		Used client sample: Y - Description: ZZI-MW2A, 11/12/2014 16:10									
Total Dissolved Solids @ 180 C	DUP	1427021-02	1570.0	1610.0		mg/L	2.5		10		
QC Batch ID: BXK1838		Used client sample: Y - Description: LON-MW5C, 11/12/2014 11:40									
Ammonia as N	DUP	1427020-05	0.093100	0.052900		mg/L	55.1		10		J,A02
	MS	1427020-05	0.093100	1.2864	1.1111	mg/L		107		90 - 110	
	MSD	1427020-05	0.093100	1.2929	1.1111	mg/L	0.5	108	10	90 - 110	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Giacomazzi Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 12/01/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Holstein Farms Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426868
Invoice ID: B189784

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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1426868-01 - HOL-MW1

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Case Narratives

Case Narrative for Work Order 1426868

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody					
Report to:							
Blaine Tech Services 4731 Pell Drive #5 Sacramento State: 95838 CA Attn: David Webb (916) 925-2913 x102		Reduced Constituent Suite Project: Dairy Representative Monitoring Program Site: Holstein Farms Dairy Samplers Name: <i>Seth Sarmiento</i> Global ID:					
From Filtered Sample: Ammonia-N, NO ₃ -N, Total Dissolved Solids							
Analysis Requested							
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1/P6 Unpreserved	Relinquished by: (Signature)	Date & Time
1	HOL-MW1	11/11/14	1515	GW	x	<i>[Signature]</i>	11-11-14 20:35
2	HOL-MW2				x		
3	HOL-MW3				x		
4	Field-Duplicate				x		
5							
6							
7							
8							
9							
10							
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lidoroff and Scalmanini Consulting Engineers via email: llavagnino@isce.com, rbyson@isce.com, pdhalliwa@isce.com 4) Send bill to Blaine Tech Services, only.						Received By: <i>[Signature]</i> Date & Time: 11-11-14 20:35	
Relinquished by: (Signature) <i>[Signature]</i> Relinquished by: (Signature) <i>[Signature]</i> Relinquished by: (Signature) <i>[Signature]</i>						Received by: <i>[Signature]</i> Date & Time: 11-11-14 1155	
(A)= Analysis (C)= Container (P)= Preservative							

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1426868

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: 16 Thermometer ID: 107 Date/Time: 11-14-11 2:55
 Temperature: (A) 0.6 °C / (C) 0.2 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-14-11 WWS (S:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1426868-01	COC Number: ---	Receive Date: 11/11/2014 21:55
	Project Number: ---	Sampling Date: 11/11/2014 15:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: HOL-MW1	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426868-01	Client Sample Name: HOL-MW1, 11/11/2014 3:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	9.5	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	430	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	0.044	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 09:16	OLH	IC1	1	BXK1126
2	SM-2540C	11/15/14	11/15/14 09:30	CAD	MANUAL	2	BXK1296
3	EPA-350.1	11/20/14	11/20/14 13:57	JP1	SC-1	1	BXK1739

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1126						
Nitrate as N	BXK1126-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1296						
Total Dissolved Solids @ 180 C	BXK1296-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1739						
Ammonia as N	BXK1739-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXK1126										
Nitrate as N	BXK1126-BS1	LCS	5.0300	5.0000	mg/L	101		90 - 110		
QC Batch ID: BXK1296										
Total Dissolved Solids @ 180 C	BXK1296-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXK1739										
Ammonia as N	BXK1739-BS1	LCS	1.0529	1.0000	mg/L	105		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1126		Used client sample: N								
Nitrate as N	DUP	1426876-19	1.8530	1.8520		mg/L	0.1		10	
	MS	1426876-19	1.8530	7.1051	5.0505	mg/L		104		80 - 120
	MSD	1426876-19	1.8530	7.1051	5.0505	mg/L	0	104	10	80 - 120
QC Batch ID: BXK1296		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426795-01	41100	41400		mg/L	0.7		10	
QC Batch ID: BXK1739		Used client sample: N								
Ammonia as N	DUP	1426865-01	0.059100	0.056600		mg/L	4.3		10	J
	MS	1426865-01	0.059100	1.1902	1.1111	mg/L		102		90 - 110
	MSD	1426865-01	0.059100	1.1497	1.1111	mg/L	3.5	98.2	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Holstein Farms Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference



Date of Report: 12/01/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: J&A Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426870
Invoice ID: B189786

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426870

Samples were filtered through a 0.45 micron filter prior to analysis.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 1

Submission #: 14-26870

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98, Container: PB, Thermometer ID: 107, Date/Time: 11-14-2007, Analyst Init: M, Temperature: (A) 0.6 C, (C) 0.2 C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: A Date/Time: 11-14-2007 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC) A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426870-01	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1426870-02	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 11:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1426870-03	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1426870-04	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 13:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	JAD-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426870-01	Client Sample Name: JAD-MW3, 11/11/2014 12:20:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	18	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	590	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.040		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 01:04	BMW	IC1	2	BXK1126
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	3.333	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:11	JP1	SC-1	1	BXK1740

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426870-02	Client Sample Name: JAD-MW4d, 11/11/2014 11:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	10	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	450	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	0.040	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/13/14 01:19	BMW	IC1	2	BXK1126
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	2	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:12	JP1	SC-1	1	BXK1740

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426870-03	Client Sample Name: JAD-MW5d, 11/11/2014 12:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	15	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	590	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.048	mg/L	0.10	0.033	EPA-350.1	0.040	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/13/14 01:34	BMW	IC1	5	BXK1126
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	3.333	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:13	JP1	SC-1	1	BXK1740

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426870-04	Client Sample Name: JAD-MW6d, 11/11/2014 1:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	35	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	820	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.062	mg/L	0.10	0.033	EPA-350.1	0.040	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 09:02	OLH	IC1	2	BXK1126
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	5	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:14	JP1	SC-1	1	BXK1740

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1126						
Nitrate as N	BXK1126-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1368						
Total Dissolved Solids @ 180 C	BXK1368-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1740						
Ammonia as N	BXK1740-BLK1	0.040000	mg/L	0.10	0.033	J

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1126										
Nitrate as N	BXK1126-BS1	LCS	5.0300	5.0000	mg/L	101		90 - 110		
QC Batch ID: BXK1368										
Total Dissolved Solids @ 180 C	BXK1368-BS1	LCS	600.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BXK1740										
Ammonia as N	BXK1740-BS1	LCS	1.0794	1.0000	mg/L	108		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1126		Used client sample: N								
Nitrate as N	DUP	1426876-19	1.8530	1.8520		mg/L	0.1		10	
	MS	1426876-19	1.8530	7.1051	5.0505	mg/L		104		80 - 120
	MSD	1426876-19	1.8530	7.1051	5.0505	mg/L	0	104	10	80 - 120
QC Batch ID: BXK1368		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426866-01	1760.0	1720.0		mg/L	2.3		10	
QC Batch ID: BXK1740		Used client sample: N								
Ammonia as N	DUP	1426866-02	0.43820	0.44730		mg/L	2.1		10	
	MS	1426866-02	0.43820	1.5690	1.1111	mg/L		102		90 - 110
	MSD	1426866-02	0.43820	1.5626	1.1111	mg/L	0.4	101	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:03
Project: Dairy Representative Monitoring Program
Project Number: J&A Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/03/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Longfellow Farming Co
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427020
Invoice ID: B189978

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427020

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		Chain of Custody			
4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911			
Analysis Requested					
Name: Blaine Tech Services		From Filtered Sample:			
Address: 4731 Pell Drive #5		Ammonia-N, NO3-N, Total Dissolved Solids			
City: Sacramento					
State: Zip: 95838					
Attn: David Webb (916) 925-2913 x102					
Report to: Reduced Constituent Suite					
Project: Dairy Representative Monitoring Program					
Site: Longfellow Farming Co.					
Samplers Name: S. Sarmiento / T. Bell					
Global ID -					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	CI/Pe Unpreserved
-1	LON-MW1A, LON-MW4B LON-MW1C	11/12/14	1300	GW	x
-2	LON-MW2A, LON-MW2B LON-MW2C		1345		x
-3	LON-MW3A, LON-MW3B LON-MW3C		1435		x
-4	LON-MW4A, LON-MW4B LON-MW4C, LON-MW4D		1220		x
-5	LON-MW5A, LON-MW5B LON-MW5C		1140		x
6	LON-MW6A, LON-MW6B LON-MW6C				x
6/1	LON-MW7A, LON-MW7B LON-MW7C, LON-MW7D				x
8	Field Duplicate		1310	GW	x
9					
10					
11					

SHORT HOLDING TIME
 CI-16 NO2 NO3 OP SC
 DO CL2 BOD MBAS COC
 CHK BY: [Signature] DISTRIBUTION
 SUB-OUT: [Signature]

Relinquished by: (Signature)	Received By: [Signature]	Date & Time
Relinquished by: (Signature)	Received by: [Signature]	Date & Time
Relinquished by: (Signature)	Received By: [Signature]	Date & Time

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luidorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pdhalliwal@lscce.com
 4) Send bill to Blaine Tech Services, only.

(A)= Analysis (C)= Container (P)= Preservative

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COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

3C LABORATORIES INC.

Submission #: 14-27020

<p>SHIPPING INFORMATION</p> <p>Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/></p> <p>BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____</p>	<p>SHIPPING CONTAINER</p> <p>Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/></p> <p>Other <input type="checkbox"/> (Specify) _____</p>	<p>FREE LIQUID</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/></p>
---	--	---

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: DE Thermometer ID: 207 Date/Time: 11/17/14 2:35

Temperature: (A) 2.4 °C / (C) 2.0 °C Analyst Init: W

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A	A	A	A	A				
QT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
QT INORGANIC CHEMICAL METALS										
QT CYANIDE										
QT NITROGEN FORMS										
QT TOTAL SULFIDE										
oz. NITRATE/NITRITE										
QT TOTAL ORGANIC CARBON										
QT TOX										
QT CHEMICAL OXYGEN DEMAND										
MA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
QT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: W Date/Time: 11/17/14 0106 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427020-01	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 13:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW1C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427020-02	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 13:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW2C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427020-03	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 14:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW3B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427020-04	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW4C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427020-05	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 11:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW5C	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427020-06	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 13:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	LON-MW7D	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427020-01	Client Sample Name: LON-MW1C, 11/12/2014 1:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	19	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	670	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.039	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 03:57	OLH	IC2	1	BXK1225
2	SM-2540C	11/19/14	11/19/14 09:30	CAD	MANUAL	3.333	BXK1628
3	EPA-350.1	11/20/14	11/20/14 18:53	JP1	SC-1	1	BXK1837

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427020-02	Client Sample Name: LON-MW2C, 11/12/2014 1:45:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	9.7	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	900	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.036	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 04:32	OLH	IC2	1	BXK1225
2	SM-2540C	11/19/14	11/19/14 09:30	CAD	MANUAL	5	BXK1628
3	EPA-350.1	11/20/14	11/20/14 18:53	JP1	SC-1	1	BXK1837

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427020-03	Client Sample Name: LON-MW3B, 11/12/2014 2:35:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	4.0	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	600	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 04:50	OLH	IC2	1	BXK1225
2	SM-2540C	11/19/14	11/19/14 09:30	CAD	MANUAL	3.333	BXK1628
3	EPA-350.1	11/20/14	11/20/14 18:55	JP1	SC-1	1	BXK1837

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427020-04	Client Sample Name: LON-MW4C, 11/12/2014 12:20:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	56	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 05:43	OLH	IC2	5	BXK1225
2	SM-2540C	11/19/14	11/19/14 09:30	CAD	MANUAL	10	BXK1628
3	EPA-350.1	11/20/14	11/20/14 18:55	JP1	SC-1	1	BXK1837

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427020-05	Client Sample Name: LON-MW5C, 11/12/2014 11:40:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	32	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.093	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 06:00	OLH	IC2	2	BXK1225
2	SM-2540C	11/19/14	11/19/14 09:30	CAD	MANUAL	5	BXK1628
3	EPA-350.1	11/20/14	11/20/14 18:58	JP1	SC-1	1	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427020-06	Client Sample Name: LON-MW7D, 11/12/2014 1:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	52	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 06:36	OLH	IC2	5	BXK1225
2	SM-2540C	11/19/14	11/19/14 09:30	CAD	MANUAL	10	BXK1628
3	EPA-350.1	11/20/14	11/20/14 17:19	JP1	SC-1	1	BXK1838

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1225						
Nitrate as N	BXK1225-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1628						
Total Dissolved Solids @ 180 C	BXK1628-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1837						
Ammonia as N	BXK1837-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1838						
Ammonia as N	BXK1838-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1225										
Nitrate as N	BXK1225-BS1	LCS	5.3130	5.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1628										
Total Dissolved Solids @ 180 C	BXK1628-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: BXK1837										
Ammonia as N	BXK1837-BS1	LCS	1.0712	1.0000	mg/L	107		90 - 110		
QC Batch ID: BXK1838										
Ammonia as N	BXK1838-BS1	LCS	1.0985	1.0000	mg/L	110		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK1225		Used client sample: N								
Nitrate as N	DUP	427015-01RE2	0.18800	0.18000		mg/L	4.3		10	
	MS	427015-01RE2	0.18800	5.2828	5.0505	mg/L		101		80 - 120
	MSD	427015-01RE2	0.18800	5.3960	5.0505	mg/L	2.1	103	10	80 - 120
QC Batch ID: BXK1628		Used client sample: Y - Description: LON-MW7D, 11/12/2014 13:10								
Total Dissolved Solids @ 180 C	DUP	1427020-06	1500.0	1540.0		mg/L	2.6		10	
QC Batch ID: BXK1837		Used client sample: Y - Description: MAL-MW4, 11/12/2014 10:55								
Ammonia as N	DUP	1427019-04	0.046700	0.045000		mg/L	3.7		10	J
	MS	1427019-04	0.046700	1.2648	1.1111	mg/L		110		90 - 110
	MSD	1427019-04	0.046700	1.2648	1.1111	mg/L	0	110	10	90 - 110
QC Batch ID: BXK1838		Used client sample: Y - Description: LON-MW5C, 11/12/2014 11:40								
Ammonia as N	DUP	1427020-05	0.093100	0.052900		mg/L	55.1		10	J,A02
	MS	1427020-05	0.093100	1.2864	1.1111	mg/L		107		90 - 110
	MSD	1427020-05	0.093100	1.2929	1.1111	mg/L	0.5	108	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: Longfellow Farming Co
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 12/03/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Machado Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427244
Invoice ID: B189992

Enclosed are the results of analyses for samples received by the laboratory on 11/14/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427244

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911 1427244		Chain of Custody					
Analysis Requested							
Report to: Blaine Tech Services 4731 Pell Drive #5 Sacramento State: CA Zip: 95838 Attn: David Webb (916) 925-2913 x102		From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids					
Project: Dairy Representative Monitoring Program Site: Machado Dairy Samplers Name: S. Samicob / T. Bas 11 Global ID -							
Reduced Constituent Suite							
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1/P6 Unpreserved	Analysis Requested	
1	ADO-MW1s, ADO-MW1d	11/14/14	1055	GL	x	SHORT HOPEING TIME	
2	ADO-MW2s, ADO-MW2d	11/14/14	1100	T	x	Cr ⁶ NO ₂ (NO ₂) OP SS	
3	Field Duplicate				x	DO Cl ₂ BOD MBAS COT	
4							
5							
6						CHK BY DISTRIBUTION	
7							
8							
9							
10							
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhdorff and Scalmanini Consulting Engineers via email: llavagnino@isce.com, rnyson@isce.com, pdhalwa@isce.com 4) Send bill to Blaine Tech Services, only.						Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature)	Received By: [Signature] 11-14-14 1350 Received by: [Signature] 11-14-14 18:30 Received By: [Signature]
(A)= Analysis (C)= Container (P)= Preservative							

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1427244

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.78 Container: PE Thermometer ID: 908 Date/Time: 11/14/14 2150
 Temperature: (A) 6.0 °C (C) 2.6 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: _____ Date/Time: 11/14/14 2150 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)

A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:36
Project: Dairy Representative Monitoring Program
Project Number: Machado Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427244-01	COC Number:	---	Receive Date:	11/14/2014 21:50
	Project Number:	---	Sampling Date:	11/14/2014 10:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ADO-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1427244-02	COC Number:	---	Receive Date:	11/14/2014 21:50
	Project Number:	---	Sampling Date:	11/14/2014 11:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ADO-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:36
Project: Dairy Representative Monitoring Program
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427244-01	Client Sample Name: ADO-MW1d, 11/14/2014 10:55:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	18	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	680	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 01:02	OLH	IC2	1	BXK1335
2	SM-2540C	11/20/14	11/20/14 10:30	CAD	MANUAL	3.333	BXK1769
3	EPA-350.1	11/21/14	11/24/14 11:57	JP1	SC-1	1	BXK1934

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:36
Project: Dairy Representative Monitoring Program
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427244-02	Client Sample Name: ADO-MW2d, 11/14/2014 11:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	650	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 01:19	OLH	IC2	1	BXK1335
2	SM-2540C	11/20/14	11/20/14 10:30	CAD	MANUAL	3.333	BXK1769
3	EPA-350.1	11/21/14	11/24/14 11:57	JP1	SC-1	1	BXK1934

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:36
Project: Dairy Representative Monitoring Program
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1335						
Nitrate as N	BXK1335-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1769						
Total Dissolved Solids @ 180 C	BXK1769-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1934						
Ammonia as N	BXK1934-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:36
Project: Dairy Representative Monitoring Program
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1335										
Nitrate as N	BXK1335-BS1	LCS	5.1750	5.0000	mg/L	104		90 - 110		
QC Batch ID: BXK1769										
Total Dissolved Solids @ 180 C	BXK1769-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: BXK1934										
Ammonia as N	BXK1934-BS1	LCS	0.99090	1.0000	mg/L	99.1		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:36
Project: Dairy Representative Monitoring Program
Project Number: Machado Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1335		Used client sample: N								
Nitrate as N	DUP	427243-01RE2	0.92000	0.88800		mg/L	3.5		10	
	MS	427243-01RE2	0.92000	6.0020	5.0505	mg/L		101		80 - 120
	MSD	427243-01RE2	0.92000	6.2010	5.0505	mg/L	3.3	105	10	80 - 120
QC Batch ID: BXK1769		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427160-01	6040.0	6060.0		mg/L	0.3		10	
QC Batch ID: BXK1934		Used client sample: N								
Ammonia as N	DUP	1427160-01	ND	0.035200		mg/L			10	J
	MS	1427160-01	ND	1.2150	1.1111	mg/L		109		90 - 110
	MSD	1427160-01	ND	1.2173	1.1111	mg/L	0.2	110	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:36
Project: Dairy Representative Monitoring Program
Project Number: Machado Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference

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Date of Report: 12/01/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Manuel & Alda Lawrence Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427019
Invoice ID: B189840

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427019

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. (427019)		Chain of Custody			
Report to:		Analysis Requested			
Blaine Tech Services		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911			
Address: 4731 Pell Drive #5		Project: Dairy Representative Monitoring Program			
City: Sacramento		Site: Manuel and Aida Lawrence Dairy			
State: Zip: 95838		From Filtered Sample:			
Attn: David Webb (916) 925-2913 x102		Ammonia-N, NO3-N Total Dissolved Solids			
Samplers Name: S. Sarmiento / T. Bell					
Global ID -					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1/Pe Unpreserved
-1	MAL-MW1	11/12/14	0910	GW	x
-2	MAL-MW2		0950		x
-3	MAL-MW3		0830		x
-4	MAL-MW4		1055		x
-5	MAL-MW5		1005		x
-6	MAL-MW6		0920		x
-7	MAL-MW7		1010		x
-8	MAL-MW8		0835		x
-9	Field Duplicate (DUP-4)				x
10					
11					
12					

SHORT HOLDING TIME
C1+6 NO2 (NO3) OF SS
DO Cl2 BOD MBAS COT
CHK BY DISTRIBUTION
SUB-OUT

Relinquished by: (Signature)	Received by: (Signature)	Date & Time
Relinquished by: (Signature)	Received by: (Signature)	Date & Time
Relinquished by: (Signature)	Received by: (Signature)	Date & Time

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lohdorff and Scalmanini Consulting Engineers via email: llavagnino@isce.com, rryyson@isce.com, pdhalilwal@isce.com
 4) Send bill to Blaine Tech Services, only.

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COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 2

BC LABORATORIES INC.

Submission #: 14-2709

SHIPPING INFORMATION		SHIPPING CONTAINER	FREE LIQUID
Federal Express <input type="checkbox"/>	UPS <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/>	
		Other <input type="checkbox"/> (Specify) _____	

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PS Thermometer ID: 207 Date/Time: 11/12/14 2:35

Temperature: (A) 2.4 °C / (C) 2.0 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
GENERAL MINERAL/ GENERAL	A	A	A	A	A	A	A	A	A	
PE UNPRESERVED										
INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS										
CYANIDE										
NITROGEN FORMS										
TOTAL SULFIDE										
oz. NITRATE /NITRITE										
TOTAL ORGANIC CARBON										
TOX										
CHEMICAL OXYGEN DEMAND										
PHENOLICS										
10ml VOA VIAL TRAVEL BLANK										
10ml VOA VIAL										
EPA 413.1, 413.2, 418.1										
ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
10 ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
EPA 549										
EPA 632										
EPA 8015M										
AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time: 11/13/14 0105 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)

Sample Numbering Completed By: _____

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1427019-01	COC Number:	---	Receive Date: 11/12/2014 23:35
	Project Number:	---	Sampling Date: 11/12/2014 09:10
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MAL-MW1	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
	1427019-02	COC Number:	---
Project Number:		---	Sampling Date: 11/12/2014 09:50
Sampling Location:		---	Sample Depth: ---
Sampling Point:		MAL-MW2	Lab Matrix: Water
Sampled By:		---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
1427019-03		COC Number:	---
	Project Number:	---	Sampling Date: 11/12/2014 08:30
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MAL-MW3	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1427019-04	COC Number:	---	Receive Date: 11/12/2014 23:35
	Project Number:	---	Sampling Date: 11/12/2014 10:55
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MAL-MW4	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
	1427019-05	COC Number:	---
Project Number:		---	Sampling Date: 11/12/2014 10:35
Sampling Location:		---	Sample Depth: ---
Sampling Point:		MAL-MW5	Lab Matrix: Water
Sampled By:		---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
1427019-06		COC Number:	---
	Project Number:	---	Sampling Date: 11/12/2014 09:20
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MAL-MW6	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1427019-07	COC Number:	---	Receive Date: 11/12/2014 23:35
	Project Number:	---	Sampling Date: 11/12/2014 10:10
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MAL-MW7	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
	1427019-08	COC Number:	---
Project Number:		---	Sampling Date: 11/12/2014 08:35
Sampling Location:		---	Sample Depth: ---
Sampling Point:		MAL-MW8	Lab Matrix: Water
Sampled By:		---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
1427019-09		COC Number:	---
	Project Number:	---	Sampling Date: 11/12/2014 00:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	Field Duplicate (Dup-4)	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-01	Client Sample Name: MAL-MW1, 11/12/2014 9:10:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	23	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.12	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/13/14 23:53	BMW	IC5	2	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1532
3	EPA-350.1	11/20/14	11/20/14 16:41	JP1	SC-1	1	BXK1836

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-02	Client Sample Name: MAL-MW2, 11/12/2014 9:50:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	26	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.036	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 00:11	BMW	IC5	2	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	10	BXK1532
3	EPA-350.1	11/20/14	11/20/14 16:46	JP1	SC-1	1	BXK1836

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-03	Client Sample Name: MAL-MW3, 11/12/2014 8:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	39	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.081	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 00:28	OLH	IC5	2	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	10	BXK1532
3	EPA-350.1	11/20/14	11/20/14 16:48	JP1	SC-1	1	BXK1836

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-04	Client Sample Name: MAL-MW4, 11/12/2014 10:55:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.047	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 00:45	OLH	IC5	2	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	10	BXK1532
3	EPA-350.1	11/20/14	11/20/14 18:42	JP1	SC-1	1	BXK1837

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-05	Client Sample Name: MAL-MW5, 11/12/2014 10:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	120	mg/L	1.0	0.18	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	3100	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	0.082	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:03	OLH	IC5	10	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	20	BXK1532
3	EPA-350.1	11/20/14	11/20/14 18:46	JP1	SC-1	1	BXK1837

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-06	Client Sample Name: MAL-MW6, 11/12/2014 9:20:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	66	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:20	OLH	IC5	5	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	10	BXK1532
3	EPA-350.1	11/20/14	11/20/14 18:47	JP1	SC-1	1	BXK1837

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Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-07	Client Sample Name: MAL-MW7, 11/12/2014 10:10:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	110	mg/L	1.0	0.18	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	3600	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:38	OLH	IC5	10	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	20	BXK1532
3	EPA-350.1	11/20/14	11/20/14 18:49	JP1	SC-1	1	BXK1837

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Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-08	Client Sample Name: MAL-MW8, 11/12/2014 8:35:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	59	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.039	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:55	OLH	IC5	5	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	10	BXK1532
3	EPA-350.1	11/20/14	11/20/14 18:51	JP1	SC-1	1	BXK1837

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Blaine Tech
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Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427019-09	Client Sample Name: Field Duplicate (Dup-4), 11/12/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	24	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.051	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:12	OLH	IC5	5	BXK1227
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1532
3	EPA-350.1	11/20/14	11/20/14 18:51	JP1	SC-1	1	BXK1837

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Blaine Tech
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Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1227						
Nitrate as N	BXK1227-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1532						
Total Dissolved Solids @ 180 C	BXK1532-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1836						
Ammonia as N	BXK1836-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1837						
Ammonia as N	BXK1837-BLK1	ND	mg/L	0.10	0.033	

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Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1227										
Nitrate as N	BXK1227-BS1	LCS	5.3950	5.0000	mg/L	108		90 - 110		
QC Batch ID: BXK1532										
Total Dissolved Solids @ 180 C	BXK1532-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXK1836										
Ammonia as N	BXK1836-BS1	LCS	0.98450	1.0000	mg/L	98.4		90 - 110		
QC Batch ID: BXK1837										
Ammonia as N	BXK1837-BS1	LCS	1.0712	1.0000	mg/L	107		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK1227		Used client sample: Y - Description: MAL-MW1, 11/12/2014 09:10								
Nitrate as N	DUP	427019-01RE'	23.880	23.896		mg/L	0.1		10	
	MS	427019-01RE'	23.880	34.042	10.101	mg/L		101	80 - 120	
	MSD	427019-01RE'	23.880	34.154	10.101	mg/L	0.3	102	10	80 - 120
QC Batch ID: BXK1532		Used client sample: Y - Description: MAL-MW2, 11/12/2014 09:50								
Total Dissolved Solids @ 180 C	DUP	1427019-02	1520.0	1520.0		mg/L	0		10	
QC Batch ID: BXK1836		Used client sample: Y - Description: MAL-MW1, 11/12/2014 09:10								
Ammonia as N	DUP	1427019-01	0.11760	0.11510		mg/L	2.1		10	
	MS	1427019-01	0.11760	1.2763	1.1111	mg/L		104	90 - 110	
	MSD	1427019-01	0.11760	1.3059	1.1111	mg/L	2.3	107	10	90 - 110
QC Batch ID: BXK1837		Used client sample: Y - Description: MAL-MW4, 11/12/2014 10:55								
Ammonia as N	DUP	1427019-04	0.046700	0.045000		mg/L	3.7		10	J
	MS	1427019-04	0.046700	1.2648	1.1111	mg/L		110	90 - 110	
	MSD	1427019-04	0.046700	1.2648	1.1111	mg/L	0	110	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 16:29
Project: Dairy Representative Monitoring Program
Project Number: Manuel & Alda Lawrence Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/01/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Maple Avenue Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427154
Invoice ID: B189792

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427154

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to: Reduced Constituent Suite Project: Dairy Representative Monitoring Program Site: Maple Avenue Dairy Samplers Name: Tyler Ball Global ID:		Analysis Requested	
Name: Blaine Tech Services Address: 4731 Pell Drive #5 City: Sacramento State: CA Zip: 95838 Attn: David Webb (916) 925-2913 x102		From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids	
Lab # 1 2 3 4 5 6 7 8 9 10	Strike out non-sampled wells MAP-MW8 MAP-MW9 MAP-MW10 Field Duplicate	Date Sampled 11/13/14	Time Sampled 15:45
			Matrix GW
			Q1/P6 Unpreserved x x x x
			x x x x
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhnoff and Scalmanini Consulting Engineers via email: liavagnino@isce.com, ronyson@isce.com, pthallwa@isce.com 4) Send bill to Blaine Tech Services, only.		SHORT HOLDING TIME C ⁺⁶ NO ₂ NO ₃ OP SS DO Cl ₂ BOD MBAS COT CHK BY DISTRIBUTION SUB-OUT <input type="checkbox"/>	
Relinquished by: (Signature) <i>[Signature]</i>		Received By: <i>[Signature]</i> Date & Time: 11-13-14 20:30	
Relinquished by: (Signature) <i>[Signature]</i>		Received by: <i>[Signature]</i> Date & Time: 11-13-14 21:00	
Relinquished by: (Signature) <i>[Signature]</i>		Received By: <i>[Signature]</i> Date & Time:	

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 of 2

Submission #: 1427154

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 209 Date/Time: 11-13-14 2150
 Temperature: (A) 1.6 °C (C) 1.2 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	4									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-13-14 2150 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427154-01	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 15:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAP-MW10	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427154-01	Client Sample Name: MAP-MW10, 11/13/2014 3:45:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	65	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	800	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.058	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 00:09	OLH	IC2	5	BXK1334
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1532
3	EPA-350.1	11/20/14	11/20/14 19:15	JP1	SC-1	1	BXK1839

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Blaine Tech
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Sacramento, CA 95838

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1334						
Nitrate as N	BXK1334-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1532						
Total Dissolved Solids @ 180 C	BXK1532-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1839						
Ammonia as N	BXK1839-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXK1334										
Nitrate as N	BXK1334-BS1	LCS	4.9450	5.0000	mg/L	98.9		90 - 110		
QC Batch ID: BXK1532										
Total Dissolved Solids @ 180 C	BXK1532-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXK1839										
Ammonia as N	BXK1839-BS1	LCS	1.0927	1.0000	mg/L	109		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1334		Used client sample: N								
Nitrate as N	DUP	427145-01RE	ND	ND		mg/L			10	
	MS	427145-01RE	ND	9.8040	10.101	mg/L		97.1		80 - 120
	MSD	427145-01RE	ND	9.7798	10.101	mg/L	0.2	96.8	10	80 - 120
QC Batch ID: BXK1532		Used client sample: Y - Description: MAL-MW2, 11/12/2014 09:50								
Total Dissolved Solids @ 180 C	DUP	1427019-02	1520.0	1520.0		mg/L	0		10	
QC Batch ID: BXK1839		Used client sample: N								
Ammonia as N	DUP	1427046-02	0.19600	0.17860		mg/L	9.3		10	
	MS	1427046-02	0.19600	1.3349	1.1111	mg/L		102		90 - 110
	MSD	1427046-02	0.19600	1.3413	1.1111	mg/L	0.5	103	10	90 - 110

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4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Maple Avenue Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/04/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Zonneveld Dairy Complex
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427156
Invoice ID: B190105

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427156

Samples were filtered through a 0.45 micron filter prior to analysis.



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Submission #: 14-27156

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98, Container: 145, Thermometer ID: 209, Date/Time: 11-13-14 2150, Analyst Init: M.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: M Date/Time: 11-13-14 2325 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427156-01	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 14:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW1A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1427156-02	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 14:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW3B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1427156-03	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 15:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW4B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1427156-04	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 15:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ZON-MW5B	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427156-01	Client Sample Name: ZON-MW1A, 11/13/2014 2:20:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	74	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.050	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/15/14 05:22	OLH	IC1	5	BXK1330
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	10	BXK1531
3	EPA-350.1	11/21/14	11/24/14 11:15	JP1	SC-1	1	BXK1932

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427156-02	Client Sample Name: ZON-MW3B, 11/13/2014 2:30:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	59	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	710	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 05:37	OLH	IC1	5	BXK1330
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	3.333	BXK1531
3	EPA-350.1	11/21/14	11/24/14 11:21	JP1	SC-1	1	BXK1932

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427156-03	Client Sample Name: ZON-MW4B, 11/13/2014 3:05:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	50	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	640	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 06:22	OLH	IC1	5	BXK1330
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	3.333	BXK1531
3	EPA-350.1	11/21/14	11/24/14 11:21	JP1	SC-1	1	BXK1932

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427156-04	Client Sample Name: ZON-MW5B, 11/13/2014 3:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	57	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	630	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 06:36	OLH	IC1	5	BXK1330
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	3.333	BXK1531
3	EPA-350.1	11/21/14	11/24/14 11:22	JP1	SC-1	1	BXK1932

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1330						
Nitrate as N	BXK1330-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1531						
Total Dissolved Solids @ 180 C	BXK1531-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1932						
Ammonia as N	BXK1932-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1330										
Nitrate as N	BXK1330-BS1	LCS	5.1470	5.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1531										
Total Dissolved Solids @ 180 C	BXK1531-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXK1932										
Ammonia as N	BXK1932-BS1	LCS	0.98400	1.0000	mg/L	98.4		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1330		Used client sample: N								
Nitrate as N	DUP	427160-02RE'	10.855	10.790		mg/L	0.6		10	
	MS	427160-02RE'	10.855	36.955	25.253	mg/L		103		80 - 120
	MSD	427160-02RE'	10.855	36.742	25.253	mg/L	0.6	103	10	80 - 120
QC Batch ID: BXK1531		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427017-01	1170.0	1165.0		mg/L	0.4		10	
QC Batch ID: BXK1932		Used client sample: Y - Description: ZON-MW1A, 11/13/2014 14:20								
Ammonia as N	DUP	1427156-01	0.050400	0.048300		mg/L	4.3		10	J
	MS	1427156-01	0.050400	1.1806	1.1111	mg/L		102		90 - 110
	MSD	1427156-01	0.050400	1.1661	1.1111	mg/L	1.2	100	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Zonneveld Dairy Complex
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 11/21/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Richmar Farms Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426732
Invoice ID: B189268

Enclosed are the results of analyses for samples received by the laboratory on 11/10/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426732

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to: 14-26732			
Name: Blaine Tech Services Address: 4731 Pell Drive #5 City: Sacramento State: CA Zip: 95838 Attn: David Webb (916) 925-2913 x102		Analysis Requested	
Project: Dairy Representative Monitoring Program Site: Richmar Farms Dairy Samplers Name: Seth Sarmientos Global ID -		From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids	
Lab # - 1 - 2 - 3 - 4 - 5 - 6 - 7 8 9 10 11 12 13	Strike out non-sampled wells RIC-MW1, RIC-MW2 RIC-MW3, RIC-MW4 RIC-MW5, RIC-MW6 RIC-MW7s, RIC-MW7d RIC-MW8s, RIC-MW8d RIC-MW9s, RIC-MW9d Field Duplicate	Date Sampled 11/10/14	Time Sampled 1515 1559 1655 1310 1350 1430 1715
			Matrix GL
			Qi/Pc Unpreserved
			x x x x x x x x
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhdorff and Scalmani Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhalliva@lscce.com 4) Send bill to Blaine Tech Services, only.		Analysis Requested SHORT HOLDING TIME Cr+6 NO2 (NO3) OP SS DO Cl2 BOD MBAS COT CHEK BY DISTRIBUTION SUB-OUT	
Relinquished by: (Signature) 		Received By: Date & Time: 11-10-14 1820	
Relinquished by: (Signature) 		Received by: Date & Time	
Relinquished by: (Signature) 		Received By: Date & Time	

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26732

SHIPPING INFORMATION Federal Express [] UPS [] Hand Delivery [x] BC Lab Field Service [] Other [] (Specify)

SHIPPING CONTAINER Ice Chest [x] None [] Box [] Other [] (Specify)

FREE LIQUID YES [] NO [x]

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [x] Comments: Intact? Yes [] No []

All samples received? Yes [x] No [] All samples containers intact? Yes [x] No [] Description(s) match COC? Yes [x] No []

COC Received YES [x] NO []

Emissivity: 0.98 Container: PC Thermometer ID: 207 Temperature: (A) 0.7 °C (C) 0.3 °C

Date/Time 11-10-14 1820 Analyst Init M

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: M Date/Time 11-10-14 1820 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC) A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426732-01	COC Number:	---	Receive Date:	11/10/2014 18:20
	Project Number:	---	Sampling Date:	11/10/2014 15:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426732-02	COC Number:	---	Receive Date:	11/10/2014 18:20
	Project Number:	---	Sampling Date:	11/10/2014 15:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426732-03	COC Number:	---	Receive Date:	11/10/2014 18:20
	Project Number:	---	Sampling Date:	11/10/2014 16:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426732-04	COC Number:	---	Receive Date:	11/10/2014 18:20
	Project Number:	---	Sampling Date:	11/10/2014 13:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426732-05	COC Number:	---	Receive Date:	11/10/2014 18:20
	Project Number:	---	Sampling Date:	11/10/2014 13:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW8s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426732-06	COC Number:	---	Receive Date:	11/10/2014 18:20
	Project Number:	---	Sampling Date:	11/10/2014 14:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	RIC-MW9s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426732-07	COC Number:	---	Receive Date:	11/10/2014 18:20
	Project Number:	---	Sampling Date:	11/10/2014 17:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426732-01	Client Sample Name: RIC-MW1, 11/10/2014 3:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	970	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.23	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/10/14	11/11/14 09:39	OLH	IC5	1	BXK0924
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	5	BXK1253
3	EPA-350.1	11/19/14	11/19/14 14:18	JP1	SC-1	1	BXK1648

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426732-02	Client Sample Name: RIC-MW4, 11/10/2014 3:50:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	6.6	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	780	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.12	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/10/14	11/11/14 02:41	OLH	IC5	2	BXK0924
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	5	BXK1253
3	EPA-350.1	11/19/14	11/19/14 14:21	JP1	SC-1	1	BXK1649

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426732-03	Client Sample Name: RIC-MW6, 11/10/2014 4:55:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	23	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	490	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.046	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/10/14	11/11/14 09:56	OLH	IC5	2	BXK0924
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	3.333	BXK1253
3	EPA-350.1	11/19/14	11/19/14 14:26	JP1	SC-1	1	BXK1649

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426732-04	Client Sample Name: RIC-MW7s, 11/10/2014 1:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	960	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.072	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/10/14	11/11/14 10:14	OLH	IC5	1	BXK0924
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	5	BXK1253
3	EPA-350.1	11/19/14	11/19/14 14:27	JP1	SC-1	1	BXK1649

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426732-05	Client Sample Name: RIC-MW8s, 11/10/2014 1:50:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	490	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.14	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/10/14	11/11/14 03:34	OLH	IC5	1	BXK0924
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	3.333	BXK1253
3	EPA-350.1	11/19/14	11/19/14 14:28	JP1	SC-1	1	BXK1649

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426732-06	Client Sample Name: RIC-MW9s, 11/10/2014 2:30:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	22	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	710	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.040	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/10/14	11/11/14 03:51	OLH	IC5	2	BXK0924
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	3.333	BXK1253
3	EPA-350.1	11/19/14	11/19/14 14:28	JP1	SC-1	1	BXK1649

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1426732-07	Client Sample Name: Field Duplicate, 11/10/2014 5:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	23	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	510	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.061	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/10/14	11/11/14 10:31	OLH	IC5	2	BXK0924
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	3.333	BXK1253
3	EPA-350.1	11/19/14	11/19/14 14:30	JP1	SC-1	1	BXK1649

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0924						
Nitrate as N	BXK0924-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1253						
Total Dissolved Solids @ 180 C	BXK1253-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1648						
Ammonia as N	BXK1648-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1649						
Ammonia as N	BXK1649-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0924										
Nitrate as N	BXK0924-BS1	LCS	5.3160	5.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1253										
Total Dissolved Solids @ 180 C	BXK1253-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1648										
Ammonia as N	BXK1648-BS1	LCS	0.99570	1.0000	mg/L	99.6		90 - 110		
QC Batch ID: BXK1649										
Ammonia as N	BXK1649-BS1	LCS	1.0270	1.0000	mg/L	103		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK0924		Used client sample: N								
Nitrate as N	DUP	1426721-01	4.9170	4.8930		mg/L	0.5		10	
	MS	1426721-01	4.9170	10.316	5.0505	mg/L		107		80 - 120
	MSD	1426721-01	4.9170	10.326	5.0505	mg/L	0.1	107	10	80 - 120
QC Batch ID: BXK1253		Used client sample: Y - Description: RIC-MW1, 11/10/2014 15:15								
Total Dissolved Solids @ 180 C	DUP	1426732-01	970.00	985.00		mg/L	1.5		10	
QC Batch ID: BXK1648		Used client sample: N								
Ammonia as N	DUP	1426627-05	0.033300	0.035600		mg/L	6.7		10	J
	MS	1426627-05	0.033300	1.1802	1.1111	mg/L		103		90 - 110
	MSD	1426627-05	0.033300	1.1732	1.1111	mg/L	0.6	103	10	90 - 110
QC Batch ID: BXK1649		Used client sample: Y - Description: RIC-MW4, 11/10/2014 15:50								
Ammonia as N	DUP	1426732-02	0.11930	0.11300		mg/L	5.4		10	
	MS	1426732-02	0.11930	1.2541	1.1111	mg/L		102		90 - 110
	MSD	1426732-02	0.11930	1.2184	1.1111	mg/L	2.9	98.9	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 11/21/2014 10:19
Project: Dairy Representative Monitoring Program
Project Number: Richmar Farms Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/03/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Sierra View Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427155
Invoice ID: B189989

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427155

Samples were filtered through a 0.45 micron filter prior to analysis.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1427155

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO

Emissivity: 0.98 Container: YES Thermometer ID: 209 Date/Time: 11-13-14 2150

Temperature: (A) 1.6 °C / (C) 1.2 °C Analyst Init: 77

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time: 11-13-14 2321 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

Sample Numbering Completed By: 77

A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1427155-01	COC Number: ---	Receive Date: 11/13/2014 21:50
	Project Number: ---	Sampling Date: 11/13/2014 08:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SIE-MW1	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427155-01	Client Sample Name: SIE-MW1, 11/13/2014 8:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	25	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	460	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	0.066	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/14/14 19:48	BMW	IC8	2	BXK1338
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	2	BXK1767
3	EPA-350.1	11/20/14	11/20/14 19:16	JP1	SC-1	1	BXK1839

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1338						
Nitrate as N	BXK1338-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1767						
Total Dissolved Solids @ 180 C	BXK1767-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1839						
Ammonia as N	BXK1839-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1338										
Nitrate as N	BXK1338-BS1	LCS	5.1890	5.0000	mg/L	104		90 - 110		
QC Batch ID: BXK1767										
Total Dissolved Solids @ 180 C	BXK1767-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1839										
Ammonia as N	BXK1839-BS1	LCS	1.0927	1.0000	mg/L	109		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1338		Used client sample: N								
Nitrate as N	DUP	427198-01RE	8.8280	8.8210		mg/L	0.1		10	
	MS	427198-01RE	8.8280	14.132	5.0505	mg/L		105		80 - 120
	MSD	427198-01RE	8.8280	14.184	5.0505	mg/L	0.4	106	10	80 - 120
QC Batch ID: BXK1767		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427177-01	1175.0	1165.0		mg/L	0.9		10	
QC Batch ID: BXK1839		Used client sample: N								
Ammonia as N	DUP	1427046-02	0.19600	0.17860		mg/L	9.3		10	
	MS	1427046-02	0.19600	1.3349	1.1111	mg/L		102		90 - 110
	MSD	1427046-02	0.19600	1.3413	1.1111	mg/L	0.5	103	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sierra View Dairy
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.

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Date of Report: 12/03/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Sozinho Dairy #2
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427157
Invoice ID: B189990

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427157

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		Chain of Custody				
4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Analysis Requested				
Report to: Reduced Constituent Suite Project: Dairy Representative Monitoring Program Site: Sozinho Dairy #2 Samplers Name: S. Sarmienta / T. Ball Global ID:						
From Filtered Sample: Ammonia-N, NO ₃ -N, Total Dissolved Solids						
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1 Pa Unpreserved	Analysis Requested
1	SO2-MW4				x	
2	SO2-MW2				x	
3	SO2-MW3				x	
4	SO2-MW4				x	
5	SO2-MW5s, SO2-MW6d	11/13/14	1010	GW	x	SHORT HOLDING TIME
6	SO2-MW6s, SO2-MW6d		1055	GW	x	Cr ⁶ NO ₂ (NO ₃) OP SS
7	SO2-MW7s, SO2-MW7d		1015	GW	x	DO Cl ₂ BOD MBAS COT
8	SO2-MW8s, SO2-MW8d				x	
9	Field Duplicate (Dup 3)			GW	x	CHK BY DISTRIBUTION
10						
11						
12						
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lohdorff and Scalmani Consulting Engineers via email: llavagnino@lisce.com, rbyson@lisce.com, pdhalliwal@lisce.com 4) Send bill to Blaine Tech Services, only.						Received By: <i>[Signature]</i> Date & Time: 11-13-14 20:30 Received By: <i>[Signature]</i> Date & Time: 11-13-14 21:50 Received By: _____ Date & Time: _____
Relinquished by: (Signature) <i>[Signature]</i> Relinquished by: (Signature) <i>[Signature]</i> Relinquished by: (Signature) _____						Received By: _____ Date & Time: _____ Received By: _____ Date & Time: _____ Received By: _____ Date & Time: _____

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-27157

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: YES Thermometer ID: 209 Date/Time: 11-13-14 2:50
 Temperature: (A) 1.6 °C (C) 1.2 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-13-14 2:50
 A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1427157-01	COC Number: ---	Receive Date: 11/13/2014 21:50
	Project Number: ---	Sampling Date: 11/13/2014 10:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SO2-MW5s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427157-02	COC Number: ---	Receive Date: 11/13/2014 21:50
	Project Number: ---	Sampling Date: 11/13/2014 10:55
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SO2-MW6d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427157-03	COC Number: ---	Receive Date: 11/13/2014 21:50
	Project Number: ---	Sampling Date: 11/13/2014 10:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SO2-MW7d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427157-04	COC Number: ---	Receive Date: 11/13/2014 21:50
	Project Number: ---	Sampling Date: 11/13/2014 00:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Field Duplicate (Dup-3)	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427157-01	Client Sample Name: SO2-MW5s, 11/13/2014 10:10:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	35	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/14/14 18:45	BMW	IC2	5	BXK1333
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1767
3	EPA-350.1	11/21/14	11/24/14 11:23	JP1	SC-1	1	BXK1932

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427157-02	Client Sample Name: SO2-MW6d, 11/13/2014 10:55:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	42	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/14/14 19:03	BMW	IC2	5	BXK1333
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1767
3	EPA-350.1	11/21/14	11/24/14 11:24	JP1	SC-1	1	BXK1932

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427157-03	Client Sample Name: SO2-MW7d, 11/13/2014 10:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	45	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/14/14 19:20	BMW	IC2	5	BXK1333
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1767
3	EPA-350.1	11/21/14	11/24/14 11:25	JP1	SC-1	1	BXK1932

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427157-04	Client Sample Name: Field Duplicate (Dup-3), 11/13/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	46	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/14/14 20:13	BMW	IC2	5	BXK1333
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1767
3	EPA-350.1	11/21/14	11/24/14 11:32	JP1	SC-1	1	BXK1933

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1333						
Nitrate as N	BXK1333-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1767						
Total Dissolved Solids @ 180 C	BXK1767-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1932						
Ammonia as N	BXK1932-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1933						
Ammonia as N	BXK1933-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1333										
Nitrate as N	BXK1333-BS1	LCS	4.7180	5.0000	mg/L	94.4		90 - 110		
QC Batch ID: BXK1767										
Total Dissolved Solids @ 180 C	BXK1767-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1932										
Ammonia as N	BXK1932-BS1	LCS	0.98400	1.0000	mg/L	98.4		90 - 110		
QC Batch ID: BXK1933										
Ammonia as N	BXK1933-BS1	LCS	0.97300	1.0000	mg/L	97.3		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK1333		Used client sample: N								
Nitrate as N	DUP	427101-01RE'	2.8700	2.9130		mg/L	1.5		10	
	MS	427101-01RE'	2.8700	8.2697	5.0505	mg/L		107		80 - 120
	MSD	427101-01RE'	2.8700	7.9475	5.0505	mg/L	4.0	101	10	80 - 120
QC Batch ID: BXK1767		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427177-01	1175.0	1165.0		mg/L	0.9		10	
QC Batch ID: BXK1932		Used client sample: Y - Description: ZON-MW1A, 11/13/2014 14:20								
Ammonia as N	DUP	1427156-01	0.050400	0.048300		mg/L	4.3		10	J
	MS	1427156-01	0.050400	1.1806	1.1111	mg/L		102		90 - 110
	MSD	1427156-01	0.050400	1.1661	1.1111	mg/L	1.2	100	10	90 - 110
QC Batch ID: BXK1933		Used client sample: Y - Description: Field Duplicate (Dup-3), 11/13/2014 00:00								
Ammonia as N	DUP	1427157-04	ND	ND		mg/L			10	
	MS	1427157-04	ND	1.1569	1.1111	mg/L		104		90 - 110
	MSD	1427157-04	ND	1.1370	1.1111	mg/L	1.7	102	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:33
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Dairy #2
Project Manager: Dave Webb

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/03/2014

Dave Webb

Blaine Tech

4731 Pell Dr, Suite 5
Sacramento, CA 95838

Client Project: Sozinho Jerseys
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427158
Invoice ID: B189991

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427158

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:			
Name: Blaine Tech Services Address: 4731 Pell Drive #5 City: Sacramento State: CA Zip: 95838 Attn: David Webb (916) 925-2913 x102		Project: Dairy Representative Monitoring Program Site: Sozinho Jerseys Samplers Name: S. Sarmientos / T. Boll Global ID -	
Analysis Requested			
From Filtered Sample: Ammonia-N, NO ₃ -N, Total Dissolved Solids		From Filtered Sample: Ammonia-N, NO ₃ -N, Total Dissolved Solids	
Lab # 1 2 3 4 5 6 7 8 9 10	Strike out non-sampled wells SOJ-MW1 SOJ-MW2 SOJ-MW3 SOJ-MW4 SOJ-MW5; SOJ-MW6d SOJ-MW6s; SOJ-MW6d Field Duplicate	Date Sampled --- --- --- --- 11/13/14 --- --- --- --- ---	Time Sampled --- --- --- --- 6:12 --- --- --- --- ---
		Matrix --- --- --- --- 1210 1230 --- --- --- ---	Q1/P6 Unpreserved x x x x x x x x x
		SHORT HOLDING TIME Cr+6 NO ₂ (NO ₃) OP SS DO Cl ₂ BOD MBAS COT	
		CHK BY DISTRIBUTION A	
		SUB-OUT	
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>	
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>	
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>	
Date & Time 11-13-14 20:30		Date & Time 11-13-14 21:50	
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhdorff and Scalimanni Consulting Engineers via email: llavagnine@isce.com, rbyson@isce.com, pdhalwa@isce.com 4) Send bill to Blaine Tech Services, only.			
(A)= Analysis		(P)= Preservative	

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 1427158

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98. Container: PE. Thermometer ID: 208. Date/Time: 11.13.14 2150. Analyst Init: M.

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: M Date/Time: 11.13.14 2350 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC A = Actual / C = Corrected



Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:34
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427158-01	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 12:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SOJ-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427158-02	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SOJ-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:34
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427158-01	Client Sample Name: SOJ-MW5d, 11/13/2014 12:10:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	14	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	770	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/14/14 21:41	OLH	IC8	2	BXK1338
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1767
3	EPA-350.1	11/21/14	11/24/14 11:35	JP1	SC-1	1	BXK1933

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:34
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

BCL Sample ID: 1427158-02	Client Sample Name: SOJ-MW6d, 11/13/2014 12:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	12	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	390	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/14/14 21:56	OLH	IC8	1	BXK1338
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	2	BXK1767
3	EPA-350.1	11/21/14	11/24/14 11:37	JP1	SC-1	1	BXK1933

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:34
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1338						
Nitrate as N	BXK1338-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1767						
Total Dissolved Solids @ 180 C	BXK1767-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1933						
Ammonia as N	BXK1933-BLK1	ND	mg/L	0.10	0.033	

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:34
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1338										
Nitrate as N	BXK1338-BS1	LCS	5.1890	5.0000	mg/L	104		90 - 110		
QC Batch ID: BXK1767										
Total Dissolved Solids @ 180 C	BXK1767-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1933										
Ammonia as N	BXK1933-BS1	LCS	0.97300	1.0000	mg/L	97.3		90 - 110		

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:34
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1338		Used client sample: N								
Nitrate as N	DUP	427198-01RE	8.8280	8.8210		mg/L	0.1		10	
	MS	427198-01RE	8.8280	14.132	5.0505	mg/L		105		80 - 120
	MSD	427198-01RE	8.8280	14.184	5.0505	mg/L	0.4	106	10	80 - 120
QC Batch ID: BXK1767		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427177-01	1175.0	1165.0		mg/L	0.9		10	
QC Batch ID: BXK1933		Used client sample: Y - Description: Field Duplicate (Dup-3), 11/13/2014 00:00								
Ammonia as N	DUP	1427157-04	ND	ND		mg/L			10	
	MS	1427157-04	ND	1.1569	1.1111	mg/L		104		90 - 110
	MSD	1427157-04	ND	1.1370	1.1111	mg/L	1.7	102	10	90 - 110

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Blaine Tech
4731 Pell Dr, Suite 5
Sacramento, CA 95838

Reported: 12/03/2014 12:34
Project: Dairy Representative Monitoring Program
Project Number: Sozinho Jerseys
Project Manager: Dave Webb

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.

Central Area



Date of Report: 11/20/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Albert Mendes Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426548
Invoice ID: B189200

Enclosed are the results of analyses for samples received by the laboratory on 11/6/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426548

Samples were filtered through a 0.45 micron filter prior to analysis.



14-26548

Chain of Custody

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

BC Laboratories, Inc.

4100 Atlas Ct.
Bakersfield, CA 93308
(661) 327-4911

Analysis Requested

Report to:

Name: Del-Tech Reduced Constituent Suite

Address: 645 N Yosemite Project: Dairy Representative Monitoring Program 49

City: Oakdale Site: Albert Mendes Dairy

State: 95361 Samplers Name: Del-Tech / Steeg Young

Attn: Don Light Global ID:

From Filtered Sample:
Ammonia-N, NO₃-N,
Total Dissolved Solids

Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt/Pc Unpreserved
1	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s	11-6-14	12:10	GLW	x
2	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s		11:50		x
3	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s		10:09		x
4	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s		10:29		x
5	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s		9:39		x
6	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s		11:27		x
7	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s		10:57		x
8	MEN-MW1s, MEN-MW2s, MEN-MW3s, MEN-MW4s, MEN-MW5s, MEN-MW6s, MEN-MW7s, MEN-MW8s		9:52		x
9	2 Field Duplicate				x
10					
11					
12					

CHK BY: [Signature]

DISTRIBUTION

SUB-OUT

SHORT HOLDING TIME

Cl⁻⁶ NO₂ NO₃ OP SS

DO Cl₂ BOD MBAS COT

Relinquished by: (Signature)	Date & Time	Received By:	Date & Time
<u>[Signature]</u>	11-6-14 1715	<u>[Signature]</u>	11-6-14 1715
<u>[Signature]</u>	1830	<u>[Signature]</u>	11-6-14 18:30
<u>[Signature]</u>		<u>[Signature]</u>	11-6-14 2:35

Comments

1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.

2) Lab reports shall identify sampled wells exactly as shown on this CoC.

3) Send lab reports to Luhdorff and Scalmani Consulting Engineers via email: llavagnino@lscs.com, rboyson@lscs.com, pdhalliva@lscs.com

4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26548

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time: 11.6.14 285
 Temperature: (A) 0.5 °C (C) 0.1 °C Analyst Init: JN

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A	A	A	A	A	A	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: JN Date/Time: 11/7/14 0900 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426548-01	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 12:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426548-02	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426548-03	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 10:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426548-04	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 10:29
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426548-05	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 09:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MEN-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1426548-06	COC Number: ---	Receive Date: 11/06/2014 21:35
	Project Number: ---	Sampling Date: 11/06/2014 11:27
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MEN-MW6s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426548-07	COC Number: ---	Receive Date: 11/06/2014 21:35
	Project Number: ---	Sampling Date: 11/06/2014 10:57
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MEN-MW7s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426548-08	COC Number: ---	Receive Date: 11/06/2014 21:35
	Project Number: ---	Sampling Date: 11/06/2014 09:12
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MEN-MW8s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426548-09	COC Number: ---	Receive Date: 11/06/2014 21:35
	Project Number: ---	Sampling Date: 11/06/2014 00:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: #2 Field Duplicate	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-01	Client Sample Name: MEN-MW1s, 11/6/2014 12:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	13	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	3800	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	66	mg/L	5.0	1.6	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-300.0	11/07/14	11/08/14	11:03	LD1	IC2	5	BXK0667
2	SM-2540C	11/12/14	11/12/14	14:30	CAD	MANUAL	20	BXK0974
3	EPA-350.1	11/18/14	11/18/14	12:42	JP1	SC-1	50	BXK1460

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-02	Client Sample Name: MEN-MW2s, 11/6/2014 11:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.9	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	1.2	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 10:45	LD1	IC2	2	BXK0667
2	SM-2540C	11/12/14	11/12/14 14:30	CAD	MANUAL	10	BXK0974
3	EPA-350.1	11/18/14	11/18/14 11:54	JP1	SC-1	1	BXK1460

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-03	Client Sample Name: MEN-MW3s, 11/6/2014 10:09:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	98	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2000	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.068	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/07/14	11/08/14 09:35	LD1	IC2	5	BXK0667
2	SM-2540C	11/12/14	11/12/14 14:30	CAD	MANUAL	10	BXK0974
3	EPA-350.1	11/18/14	11/18/14 11:54	JP1	SC-1	1	BXK1460

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-04	Client Sample Name: MEN-MW4s, 11/6/2014 10:29:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	69	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.046	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 09:52	LD1	IC2	5	BXK0667
2	SM-2540C	11/12/14	11/12/14 14:30	CAD	MANUAL	10	BXK0974
3	EPA-350.1	11/18/14	11/18/14 11:56	JP1	SC-1	1	BXK1460

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-05	Client Sample Name: MEN-MW5s, 11/6/2014 9:39:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	52	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 08:42	LD1	IC2	5	BXK0667
2	SM-2540C	11/12/14	11/12/14 14:30	CAD	MANUAL	5	BXK0974
3	EPA-350.1	11/18/14	11/18/14 11:56	JP1	SC-1	1	BXK1460

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-06	Client Sample Name: MEN-MW6s, 11/6/2014 11:27:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	35	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.047	mg/L	0.10	0.033	EPA-350.1	0.043	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 10:27	LD1	IC2	2	BXK0667
2	SM-2540C	11/12/14	11/12/14 14:30	CAD	MANUAL	10	BXK0974
3	EPA-350.1	11/18/14	11/18/14 11:59	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-07	Client Sample Name: MEN-MW7s, 11/6/2014 10:57:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	57	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.041	mg/L	0.10	0.033	EPA-350.1	0.043	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 10:10	LD1	IC2	5	BXK0667
2	SM-2540C	11/12/14	11/12/14 14:30	CAD	MANUAL	10	BXK0974
3	EPA-350.1	11/18/14	11/18/14 12:05	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-08	Client Sample Name: MEN-MW8s, 11/6/2014 9:12:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	19	mg/L	1.0	0.25	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2000	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.28	mg/L	0.10	0.033	EPA-350.1	0.043		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 08:24	LD1	IC2	10	BXK0667
2	SM-2540C	11/12/14	11/12/14 14:30	CAD	MANUAL	10	BXK0974
3	EPA-350.1	11/18/14	11/18/14 12:05	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426548-09	Client Sample Name: #2 Field Duplicate, 11/6/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	18	mg/L	1.0	0.25	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2000	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.28	mg/L	0.10	0.033	EPA-350.1	0.043		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-300.0	11/07/14	11/08/14	11:20	LD1	IC2	10	BXK0667
2	SM-2540C	11/12/14	11/12/14	14:30	CAD	MANUAL	10	BXK0974
3	EPA-350.1	11/18/14	11/18/14	12:07	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0667						
Nitrate as N	BXK0667-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK0974						
Total Dissolved Solids @ 180 C	BXK0974-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1460						
Ammonia as N	BXK1460-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1461						
Ammonia as N	BXK1461-BLK1	0.043200	mg/L	0.10	0.033	J

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0667										
Nitrate as N	BXK0667-BS1	LCS	5.0200	5.0000	mg/L	100		90 - 110		
QC Batch ID: BXK0974										
Total Dissolved Solids @ 180 C	BXK0974-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXK1460										
Ammonia as N	BXK1460-BS1	LCS	1.0517	1.0000	mg/L	105		90 - 110		
QC Batch ID: BXK1461										
Ammonia as N	BXK1461-BS1	LCS	1.0501	1.0000	mg/L	105		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK0667		Used client sample: Y - Description: MEN-MW1s, 11/06/2014 12:10								
Nitrate as N	DUP	426548-01RE	12.580	12.930		mg/L	2.7		10	
	MS	426548-01RE	12.580	68.313	50.505	mg/L		110	80 - 120	
	MSD	426548-01RE	12.580	68.758	50.505	mg/L	0.6	111	10	80 - 120
QC Batch ID: BXK0974		Used client sample: Y - Description: MEN-MW1s, 11/06/2014 12:10								
Total Dissolved Solids @ 180 C	DUP	1426548-01	3820.0	3800.0		mg/L	0.5		10	
QC Batch ID: BXK1460		Used client sample: Y - Description: MOO-MW4, 11/06/2014 16:43								
Ammonia as N	DUP	1426547-04	0.041600	0.040800		mg/L	1.9		10	J
	MS	1426547-04	0.041600	1.1483	1.1111	mg/L		99.6	90 - 110	
	MSD	1426547-04	0.041600	1.0992	1.1111	mg/L	4.4	95.2	10	90 - 110
QC Batch ID: BXK1461		Used client sample: Y - Description: MEN-MW6s, 11/06/2014 11:27								
Ammonia as N	DUP	1426548-06	0.047200	0.036100		mg/L	26.7		10	J,A02
	MS	1426548-06	0.047200	1.1264	1.1111	mg/L		97.1	90 - 110	
	MSD	1426548-06	0.047200	1.1062	1.1111	mg/L	1.8	95.3	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/20/2014 16:06
Project: Dairy Representative Monitoring Program
Project Number: Albert Mendes Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 01/28/2015

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Anchor J. Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426626
Invoice ID: B189438, B194311

Enclosed are the results of analyses for samples received by the laboratory on 11/7/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426626

Samoles were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Name: Del-Tech		Reduced Constituent Suite		From Filtered Sample:	
Address: 645 N Yosemite		Project: Dairy Representative Monitoring Program		Ammonia-N, NO3-N	
City: Oakdale		Site: Anchor J. Dairy		Total Dissolved Solids	
State: 95361		Samplers Name: Del Tech / Stacy Young			
Attn: Don Light		Global ID:			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q/Pe Unpreserved
-1	ANC-MW1	11-7-14	14:36	GW	x
-2	ANC-MW2		14:13		x
-3	ANC-MW3		13:45		x
-4	ANC-MW4		15:03		x
-5	ANC-MW5s, ANC-MW5		15:28		x
-6	ANC-MW6s, ANC-MW6		13:27		x
-7	ANC-MW7s, ANC-MW7		12:55	WS	x
-8	N/A Field-Duplicate				x
9					
10					
11					
12					

SHORT HOLDING TIME Cr ⁶⁺ NO ₂ NO ₃ OP SS DO Cl ₂ BOD MBAS COT CHK BY: <i>[Signature]</i> DISTRIBUTION SUB-OUT <input type="checkbox"/>	Relinquished by: (Signature) <i>[Signature]</i> 11-7-14 / 16:35 Relinquished by: (Signature) <i>[Signature]</i> 11-7-14 18:45 Relinquished by: (Signature) <i>[Signature]</i> 11-7-14 20:00	Received By: <i>[Signature]</i> 11-7-14 16:35 Received By: <i>[Signature]</i> 11-7-14 18:45 Received By: <i>[Signature]</i> 11-7-14 20:00
---	--	---

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luhdorff and Scalnanni Consulting Engineers via email: llavagnino@isce.com, rbyson@isce.com, pahalwal@isce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26626

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98, Container: PE, Thermometer ID: 207, Date/Time: 11-7-14 2200, Analyst Init: [Signature]

Temperature: (A) 1.2 °C, (C) 0.8 °C

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 11-8-14 0010 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1426626-01	COC Number:	---	Receive Date: 11/07/2014 22:00
	Project Number:	---	Sampling Date: 11/07/2014 14:36
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	ANC-MW1	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
	1426626-02	COC Number:	---
Project Number:		---	Sampling Date: 11/07/2014 14:13
Sampling Location:		---	Sample Depth: ---
Sampling Point:		ANC-MW2	Lab Matrix: Water
Sampled By:		---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
1426626-03		COC Number:	---
	Project Number:	---	Sampling Date: 11/07/2014 13:45
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	ANC-MW3	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1426626-04	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ANC-MW4 Sampled By: ---	Receive Date: 11/07/2014 22:00 Sampling Date: 11/07/2014 15:03 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: Location ID (FieldPoint): Matrix: Sample QC Type (SACode): Cooler ID:
-------------------	---	--

1426626-05	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ANC-MW5s Sampled By: ---	Receive Date: 11/07/2014 22:00 Sampling Date: 11/07/2014 15:28 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: Location ID (FieldPoint): Matrix: Sample QC Type (SACode): Cooler ID:
-------------------	--	--

1426626-06	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ANC-MW6s Sampled By: ---	Receive Date: 11/07/2014 22:00 Sampling Date: 11/07/2014 13:27 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: Location ID (FieldPoint): Matrix: Sample QC Type (SACode): Cooler ID:
-------------------	--	--

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1426626-07	COC Number: ---	Receive Date: 11/07/2014 22:00
	Project Number: ---	Sampling Date: 11/07/2014 12:55
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: ANC-MW7s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
		Delivery Work Order:
		Global ID:
		Location ID (FieldPoint):
		Matrix:
		Sample QC Type (SACode):
		Cooler ID:

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426626-01	Client Sample Name: ANC-MW1, 11/7/2014 2:36:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	14	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.043		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/09/14 02:01	LD1	IC2	2	BXK0723
2	SM-2540C	11/13/14	11/13/14 09:00	CAD	MANUAL	5	BXK1134
3	EPA-350.1	11/18/14	11/18/14 12:08	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426626-02	Client Sample Name: ANC-MW2, 11/7/2014 2:13:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.058	mg/L	0.10	0.033	EPA-350.1	0.043	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/09/14 02:19	LD1	IC2	2	BXK0723
2	SM-2540C	11/13/14	11/13/14 09:00	CAD	MANUAL	10	BXK1134
3	EPA-350.1	11/18/14	11/18/14 12:09	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426626-03	Client Sample Name: ANC-MW3, 11/7/2014 1:45:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	43	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	0.043	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/09/14 03:12	LD1	IC2	5	BXK0723
2	SM-2540C	11/13/14	11/13/14 09:00	CAD	MANUAL	5	BXK1134
3	EPA-350.1	11/18/14	11/18/14 12:10	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426626-04	Client Sample Name: ANC-MW4, 11/7/2014 3:03:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	32	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	610	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.043		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/09/14 03:29	LD1	IC2	5	BXK0723
2	SM-2540C	11/13/14	11/13/14 09:00	CAD	MANUAL	3.333	BXK1134
3	EPA-350.1	11/18/14	11/18/14 12:12	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426626-05	Client Sample Name: ANC-MW5s, 11/7/2014 3:28:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	9.4	mg/L	0.50	0.090	EPA-300.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/09/14 03:47	LD1	IC2	5	BXK0723

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426626-06	Client Sample Name: ANC-MW6s, 11/7/2014 1:27:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	25	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	940	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.036	mg/L	0.10	0.033	EPA-350.1	0.043	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/09/14 04:05	LD1	IC2	2	BXK0723
2	SM-2540C	11/13/14	11/13/14 09:00	CAD	MANUAL	5	BXK1134
3	EPA-350.1	11/18/14	11/18/14 12:14	JP1	SC-1	1	BXK1461

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426626-07	Client Sample Name: ANC-MW7s, 11/7/2014 12:55:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	18	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	820	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/09/14 04:22	LD1	IC2	5	BXK0723
2	SM-2540C	11/13/14	11/13/14 09:00	CAD	MANUAL	5	BXK1134
3	EPA-350.1	11/19/14	11/19/14 13:33	JP1	SC-1	1	BXK1646

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0723						
Nitrate as N	BXK0723-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1134						
Total Dissolved Solids @ 180 C	BXK1134-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1461						
Ammonia as N	BXK1461-BLK1	0.043200	mg/L	0.10	0.033	J
QC Batch ID: BXK1646						
Ammonia as N	BXK1646-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0723										
Nitrate as N	BXK0723-BS1	LCS	4.9800	5.0000	mg/L	99.6		90 - 110		
QC Batch ID: BXK1134										
Total Dissolved Solids @ 180 C	BXK1134-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXK1461										
Ammonia as N	BXK1461-BS1	LCS	1.0501	1.0000	mg/L	105		90 - 110		
QC Batch ID: BXK1646										
Ammonia as N	BXK1646-BS1	LCS	0.96760	1.0000	mg/L	96.8		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK0723		Used client sample: N								
Nitrate as N	DUP	426629-11RE	1.7210	1.7640		mg/L	2.5		10	
	MS	426629-11RE	1.7210	7.2727	5.0505	mg/L		110		80 - 120
	MSD	426629-11RE	1.7210	7.2697	5.0505	mg/L	0.0	110	10	80 - 120
QC Batch ID: BXK1134		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426517-04	1580.0	1550.0		mg/L	1.9		10	
QC Batch ID: BXK1461		Used client sample: Y - Description: MEN-MW6s, 11/06/2014 11:27								
Ammonia as N	DUP	1426548-06	0.047200	0.036100		mg/L	26.7		10	J,A02
	MS	1426548-06	0.047200	1.1264	1.1111	mg/L		97.1		90 - 110
	MSD	1426548-06	0.047200	1.1062	1.1111	mg/L	1.8	95.3	10	90 - 110
QC Batch ID: BXK1646		Used client sample: Y - Description: ANC-MW7s, 11/07/2014 12:55								
Ammonia as N	DUP	1426626-07	ND	ND		mg/L			10	
	MS	1426626-07	ND	1.0629	1.1111	mg/L		95.7		90 - 110
	MSD	1426626-07	ND	1.1090	1.1111	mg/L	4.2	99.8	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/28/2015 9:28
Project: Dairy Representative Monitoring Program
Project Number: Anchor J. Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Bettencourt & Marson Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426865
Invoice ID: B189782

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426865

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 19-26865 Report to:		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Analysis Requested					
From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids					
Reduced Constituent Suite					
Project: Dairy Representative Monitoring Program 79 Site: Bettencourt & Manson Dairy Samplers Name: Del Tech / Stacy Young Global ID:					
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 Attn: Don Light					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved
1	BET-MW1d	11-11-14	10:25	GLW	x
2	BET-MW2d		10:03		x
3	BET-MW3d		9:35		x
4	BET-MW4s		10:46		x
5	BET-MW5s		11:14		x
6	BET-MW6s		12:16		x
7	BET-MW7s		11:45		x
8	BET-MW8s		12:43	JS	x
9	Field-Duplicate				x
10					
11					
12					
Comments: 1) Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhnford and Scalmani Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhalwal@lscce.com 4) Send bill to Del-Tech, only.					
Relinquished by: (Signature) Stacy Young / 11-11-14 / 1705		Received By: (Signature) Ross Dickey / 11-11-14 / 705		Date & Time 11-11-14 18:30	
Relinquished by: (Signature) Ross Dickey / 11-11-14 / 1830		Received by: (Signature) [Signature]		Date & Time 11-11-14 18:30	
Relinquished by: (Signature) [Signature]		Received By: (Signature) [Signature]		Date & Time 11-11-14 18:30	
(A)= Analysis (C)= Container (P)= Preservative					

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1426865

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PB Thermometer ID: 107 Date/Time: 11-14-2015
 Temperature: (A) 0.5 °C / (C) 0.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A	A	A	A	A		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: A Date/Time: 11-14-2015 Analyst: M
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426865-01	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 10:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426865-02	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 10:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426865-03	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 09:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426865-04	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 10:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426865-05	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 11:14
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426865-06	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 12:16
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426865-07	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 11:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426865-08	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 12:43
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	BET-MW8s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-01	Client Sample Name: BET-MW1d, 11/11/2014 10:25:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	27	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	480	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	0.059	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 15:00	BMW	IC1	2	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	2	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:44	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-02	Client Sample Name: BET-MW2d, 11/11/2014 10:03:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	49	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	740	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 19:16	BMW	IC1	5	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	3.333	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:50	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-03	Client Sample Name: BET-MW3d, 11/11/2014 9:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	31	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	600	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 15:29	BMW	IC1	2	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	3.333	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:50	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-04	Client Sample Name: BET-MW4s, 11/11/2014 10:46:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	32	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	850	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 16:14	BMW	IC1	2	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	5	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:52	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-05	Client Sample Name: BET-MW5s, 11/11/2014 11:14:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	63	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	820	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 21:31	BMW	IC1	5	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	3.333	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:52	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-06	Client Sample Name: BET-MW6s, 11/11/2014 12:16:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	28	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	450	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 16:44	BMW	IC1	2	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	2	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:53	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-07	Client Sample Name: BET-MW7s, 11/11/2014 11:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	29	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	470	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 16:58	BMW	IC1	2	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	2	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:54	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426865-08	Client Sample Name: BET-MW8s, 11/11/2014 12:43:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	31	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	460	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	0.048	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 17:13	BMW	IC1	2	BXK1110
2	SM-2540C	11/17/14	11/17/14 11:00	CAD	MANUAL	2	BXK1365
3	EPA-350.1	11/20/14	11/20/14 13:55	JP1	SC-1	1	BXK1739

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1110						
Nitrate as N	BXK1110-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1365						
Total Dissolved Solids @ 180 C	BXK1365-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1739						
Ammonia as N	BXK1739-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1110										
Nitrate as N	BXK1110-BS1	LCS	5.3610	5.0000	mg/L	107		90 - 110		
QC Batch ID: BXK1365										
Total Dissolved Solids @ 180 C	BXK1365-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXK1739										
Ammonia as N	BXK1739-BS1	LCS	1.0529	1.0000	mg/L	105		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXK1110		Used client sample: N								
Nitrate as N	DUP	1426858-01	7.4520	7.4400		mg/L	0.2		10	
	MS	1426858-01	7.4520	12.662	5.0505	mg/L		103		80 - 120
	MSD	1426858-01	7.4520	12.665	5.0505	mg/L	0.0	103	10	80 - 120
QC Batch ID: BXK1365		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426974-01	4060.0	4080.0		mg/L	0.5		10	
QC Batch ID: BXK1739		Used client sample: Y - Description: BET-MW1d, 11/11/2014 10:25								
Ammonia as N	DUP	1426865-01	0.059100	0.056600		mg/L	4.3		10	J
	MS	1426865-01	0.059100	1.1902	1.1111	mg/L		102		90 - 110
	MSD	1426865-01	0.059100	1.1497	1.1111	mg/L	3.5	98.2	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:31
Project: Dairy Representative Monitoring Program
Project Number: Bettencourt & Marson Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Diepersloot Ranch
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427014
Invoice ID: B189832

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427014

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911 19-27014		Chain of Custody	
Report to:			
Reduced Constituent Suite			
Project: Dairy Representative Monitoring Program			
Site: Diepersboot Ranch			
Samplers Name: DON LUGARD / DETEC			
Global ID -			
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 CA Attn: Don Light			
From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled
1	DIE-MW1 - DRY	11/21/14	
2	DIE-MW2	1025	6W
3	DIE-MW3	0938	6W
4	DIE-MW4 - DRY		
5	Field Duplicate		
6			
7			
8			
9			
10			
11			
12			
Matrix Qt Pe Unpreserved		Analysis Requested	
SHORT HOLDING TIME Cr+16 NO2 (NO3) OP SS DO Cl2 BOD MEAS COT		Received By: DETEC 11/21/14 20:00 Date & Time Received by: Don Lugard 11-12-14 0835 Date & Time Received By: _____ Date & Time	
CHK BY: AL DISTRIBUTION SUB-OUT		Relinquished by: (Signature) Don Lugard Relinquished by: (Signature) DETEC Relinquished by: (Signature)	
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhdorff and Scalmani Consulting Engineers via email: llavagnino@isce.com, rbryson@isce.com, pdhalvial@isce.com 4) Send bill to Del-Tech, only.			
(A)= Analysis (C)= Container (P)= Preservative			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page Of

Submission #: 14-27014

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time: 11/21/14 2335
 Temperature: (A) 6.7 °C / (C) 6.3 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11/21/14 2335 COC (IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Diepersloot Ranch
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427014-01	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 10:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DIE-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427014-02	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 09:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DIE-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Diepersloot Ranch
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427014-01	Client Sample Name: DIE-MW2, 11/12/2014 10:25:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	14	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	600	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.20	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:30	OLH	IC5	1	BXK1228
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	3.333	BXK1529
3	EPA-350.1	11/20/14	11/20/14 14:24	JP1	SC-1	1	BXK1741

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Diepersloot Ranch
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427014-02	Client Sample Name: DIE-MW3, 11/12/2014 9:38:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	23	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	690	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.080	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 08:00	OLH	IC5	2	BXK1228
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	3.333	BXK1529
3	EPA-350.1	11/20/14	11/20/14 14:26	JP1	SC-1	1	BXK1741

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Diepersloot Ranch
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1228						
Nitrate as N	BXK1228-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1529						
Total Dissolved Solids @ 180 C	BXK1529-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1741						
Ammonia as N	BXK1741-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Diepersloot Ranch
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1228										
Nitrate as N	BXK1228-BS1	LCS	5.3560	5.0000	mg/L	107		90 - 110		
QC Batch ID: BXK1529										
Total Dissolved Solids @ 180 C	BXK1529-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1741										
Ammonia as N	BXK1741-BS1	LCS	0.93760	1.0000	mg/L	93.8		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Diepersloot Ranch
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1228		Used client sample: N								
Nitrate as N	DUP	426974-01RE2	ND	ND		mg/L			10	
	MS	426974-01RE2	ND	106.73	101.01	mg/L		106		80 - 120
	MSD	426974-01RE2	ND	106.51	101.01	mg/L	0.2	105	10	80 - 120
QC Batch ID: BXK1529		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427086-01	6100.0	6000.0		mg/L	1.7		10	
QC Batch ID: BXK1741		Used client sample: N								
Ammonia as N	DUP	1426918-02	0.16450	0.17190		mg/L	4.4		10	
	MS	1426918-02	0.16450	1.2999	1.1111	mg/L		102		90 - 110
	MSD	1426918-02	0.16450	1.3063	1.1111	mg/L	0.5	103	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Diepersloot Ranch
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.

Date of Report: 11/21/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Durrer Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426266
Invoice ID: B189335

Enclosed are the results of analyses for samples received by the laboratory on 11/4/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Tina Green
Client Services Manager



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426266

Samples were filtered through a 0.45 micron filter prior to analysis.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26266

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98, Container: PE, Thermometer ID: 207, Date/Time: 11-4-14, Analyst Init: JJ. Temperature: (A) 0.6, (C) 0.2.

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: NO times on Sample Bottles. Sample Numbering Completed By: KLP. Date/Time: 11/5/14 1443. A = Actual / C = Corrected.



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426266-01	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 14:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426266-02	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 15:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426266-03	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 13:56
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426266-04	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 14:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426266-05	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 12:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426266-06	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 13:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW7	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426266-07	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 15:29
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW8	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426266-08	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 16:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW9	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426266-09	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 13:29
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUR-MW10s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426266-10	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #7	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-01	Client Sample Name: DUR-MW1, 11/4/2014 2:44:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	85	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 09:26	OLH	IC1	5	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	10	BXK0702
3	EPA-350.1	11/07/14	11/12/14 14:46	JP1	SC-1	1	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-02	Client Sample Name: DUR-MW2, 11/4/2014 3:08:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.95	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2300	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	220	mg/L	20	6.6	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 09:55	OLH	IC1	2	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	20	BXK0702
3	EPA-350.1	11/07/14	11/12/14 15:59	JP1	SC-1	200	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-03	Client Sample Name: DUR-MW3, 11/4/2014 1:56:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	76	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.28	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 09:11	OLH	IC1	5	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	10	BXK0702
3	EPA-350.1	11/07/14	11/12/14 14:48	JP1	SC-1	1	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-04	Client Sample Name: DUR-MW4, 11/4/2014 2:21:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	27	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2100	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	100	mg/L	10	3.3	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 10:10	OLH	IC1	2	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	20	BXK0702
3	EPA-350.1	11/07/14	11/12/14 15:44	JP1	SC-1	100	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-05	Client Sample Name: DUR-MW6, 11/4/2014 12:39:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	51	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	980	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.45	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 08:41	OLH	IC1	5	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	5	BXK0702
3	EPA-350.1	11/07/14	11/12/14 14:50	JP1	SC-1	1	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-06	Client Sample Name: DUR-MW7, 11/4/2014 1:01:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	130	mg/L	1.0	0.18	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2100	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.42	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 08:56	OLH	IC1	10	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	10	BXK0702
3	EPA-350.1	11/07/14	11/12/14 14:50	JP1	SC-1	1	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-07	Client Sample Name: DUR-MW8, 11/4/2014 3:29:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.0	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	490	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	2.6	mg/L	0.20	0.066	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 05:51	OLH	IC1	1	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	2	BXK0702
3	EPA-350.1	11/07/14	11/12/14 16:00	JP1	SC-1	2	BXK0572

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-08	Client Sample Name: DUR-MW9, 11/4/2014 4:01:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	23	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	680	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 09:40	OLH	IC1	2	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	3.333	BXK0702
3	EPA-350.1	11/07/14	11/12/14 14:54	JP1	SC-1	1	BXK0572

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-09	Client Sample Name: DUR-MW10s, 11/4/2014 1:29:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	26	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2200	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.22	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 10:25	OLH	IC1	2	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	10	BXK0702
3	EPA-350.1	11/07/14	11/12/14 14:59	JP1	SC-1	1	BXK0572

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426266-10	Client Sample Name: Field Duplicate #7, 11/4/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	55	mg/L	1.0	0.18	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2000	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	110	mg/L	10	3.3	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/05/14	11/06/14 06:35	OLH	IC1	10	BXK0518
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	20	BXK0702
3	EPA-350.1	11/07/14	11/12/14 16:25	JP1	SC-1	100	BXK0572

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0518						
Nitrate as N	BXK0518-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK0571						
Ammonia as N	BXK0571-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK0572						
Ammonia as N	BXK0572-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK0702						
Total Dissolved Solids @ 180 C	BXK0702-BLK1	ND	mg/L	6.7	6.7	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0518										
Nitrate as N	BXK0518-BS1	LCS	5.2380	5.0000	mg/L	105		90 - 110		
QC Batch ID: BXK0571										
Ammonia as N	BXK0571-BS1	LCS	1.0205	1.0000	mg/L	102		90 - 110		
QC Batch ID: BXK0572										
Ammonia as N	BXK0572-BS1	LCS	0.99940	1.0000	mg/L	99.9		90 - 110		
QC Batch ID: BXK0702										
Total Dissolved Solids @ 180 C	BXK0702-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0518		Used client sample: Y - Description: Field Duplicate #7, 11/04/2014 00:00								
Nitrate as N	DUP	426266-10RE'	55.860	54.910		mg/L	1.7		10	
	MS	426266-10RE'	55.860	107.28	50.505	mg/L		102		80 - 120
	MSD	426266-10RE'	55.860	108.17	50.505	mg/L	0.8	104	10	80 - 120
QC Batch ID: BXK0571		Used client sample: N								
Ammonia as N	DUP	1426257-02	0.039300	ND		mg/L			10	
	MS	1426257-02	0.039300	1.1506	1.1111	mg/L		100		90 - 110
	MSD	1426257-02	0.039300	1.1372	1.1111	mg/L	1.2	98.8	10	90 - 110
QC Batch ID: BXK0572		Used client sample: Y - Description: DUR-MW9, 11/04/2014 16:01								
Ammonia as N	DUP	1426266-08	0.042300	0.039300		mg/L	7.4		10	J
	MS	1426266-08	0.042300	1.1071	1.1111	mg/L		95.8		90 - 110
	MSD	1426266-08	0.042300	1.1622	1.1111	mg/L	4.9	101	10	90 - 110
QC Batch ID: BXK0702		Used client sample: Y - Description: DUR-MW2, 11/04/2014 15:08								
Total Dissolved Solids @ 180 C	DUP	1426266-02	2340.0	2380.0		mg/L	1.7		10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:11
Project: Dairy Representative Monitoring Program
Project Number: Durrer Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 11/26/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Frank J. Gomes Dairy #1
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426745
Invoice ID: B189693

Enclosed are the results of analyses for samples received by the laboratory on 11/10/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

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Case Narratives

Case Narrative for Work Order 1426745

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Reduced Constituent Suite					
Name:	Del-Tech	Project:	Dairy Representative Monitoring Program	From Filtered Sample:	
Address:	645 N Yosemite	Site:	Frank J. Gomes Dairy #1	Ammonia-N, NO3-N	
City:	Oakdale	Sample Name:	Del-Tech / Stacy Young	Total Dissolved Solids	
State:	95361	Global ID:			
Attn:	Don Light				
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved
- 1	FG1-MW1d	11-10-14	10:41	GLW	x
- 2	FG1-MW2d		11:37		x
- 3	FG1-MW3d		11:09		x
- 4	FG1-MW4s		11:58		x
- 5	FG1-MW5s		13:11		x
- 6	FG1-MW6d		12:45		x
- 7	FG1-MW7s		12:21		x
- 8	FG1-MW8s		15:46		x
- 9	FG1-MW9s		10:08		x
10	N/A Field Duplicate				
11					
13					

SHORT HOLDING TIME
 OF SS
 C_{T+6} NO₂ NO₃
 DO Cl₂ BOD MBAS COT

CHK BY: [Signature]
 DISTRIBUTION: [Signature]
 SUB-OUT:

Relinquished by: (Signature)	SAY 11-10-14 / 1730	Received By:	Kopkarday 11-10-14 1730
Relinquished by: (Signature)	Rico Dickey 11-10-14 1830	Received by:	[Signature] 11-10-14 18:30
Relinquished by: (Signature)	[Signature]	Received By:	Kelly Bay 11-10-14 2130

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luhdorff and Scalmani Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhalvial@lscce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 14-26745

SHIPPING INFORMATION
Federal Express [] UPS [] Hand Delivery []
BC Lab Field Service [X] Other [] (Specify)

SHIPPING CONTAINER
Ice Chest [X] None [] Box []
Other [] (Specify)

FREE LIQUID
YES [] NO []

Refrigerant: Ice [X] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [X]
Intact? Yes [] No [] Intact? Yes [] No []

All samples received? Yes [X] No [] All samples containers intact? Yes [X] No []
Description(s) match COC? Yes [X] No []

COC Received [X] YES [] NO []
Emissivity: 0.98 Container: PC Thermometer ID: 107
Temperature: (A) 0.5 °C (C) 0.1 °C Date/Time 11-10-14 2130
Analyst Init M

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments:
Sample Numbering Completed By: M Date/Time: 11/10/14 2130
A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426745-01	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 10:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426745-02	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 11:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426745-03	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 11:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426745-04	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 11:58
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426745-05	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 13:11
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG1-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
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Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1426745-06	COC Number: ---	Receive Date: 11/10/2014 21:30
	Project Number: ---	Sampling Date: 11/10/2014 12:45
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW6d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426745-07	COC Number: ---	Receive Date: 11/10/2014 21:30
	Project Number: ---	Sampling Date: 11/10/2014 12:21
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW7s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426745-08	COC Number: ---	Receive Date: 11/10/2014 21:30
	Project Number: ---	Sampling Date: 11/10/2014 13:46
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW8s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1426745-09	COC Number: ---	Receive Date: 11/10/2014 21:30
	Project Number: ---	Sampling Date: 11/10/2014 10:08
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: FG1-MW9s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-01	Client Sample Name: FG1-MW1d, 11/10/2014 10:41:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.89	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	980	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.29	mg/L	0.10	0.033	EPA-350.1	0.035		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 16:41	BMW	IC5	1	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:45	JP1	SC-1	1	BXK1650

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Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-02	Client Sample Name: FG1-MW2d, 11/10/2014 11:37:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	37	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	820	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.035	mg/L	0.10	0.033	EPA-350.1	0.035	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 18:08	BMW	IC5	5	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:46	JP1	SC-1	1	BXK1650

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Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-03	Client Sample Name: FG1-MW3d, 11/10/2014 11:09:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	13	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.047	mg/L	0.10	0.033	EPA-350.1	0.035	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 18:26	BMW	IC5	1	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:47	JP1	SC-1	1	BXK1650

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Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-04	Client Sample Name: FG1-MW4s, 11/10/2014 11:58:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	34	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	610	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.035		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 18:43	BMW	IC5	2	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	3.333	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:48	JP1	SC-1	1	BXK1650

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Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-05	Client Sample Name: FG1-MW5s, 11/10/2014 1:11:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	15	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	570	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.037	mg/L	0.10	0.033	EPA-350.1	0.035	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 19:35	BMW	IC5	2	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	3.333	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:48	JP1	SC-1	1	BXK1650

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Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-06	Client Sample Name: FG1-MW6d, 11/10/2014 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	410	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.035		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 19:53	BMW	IC5	2	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	2	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:50	JP1	SC-1	1	BXK1650

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Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-07	Client Sample Name: FG1-MW7s, 11/10/2014 12:21:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	26	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	550	mg/L	20	20	SM-2540C	ND		2
Ammonia as N	0.044	mg/L	0.10	0.033	EPA-350.1	0.035	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 20:10	BMW	IC5	2	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	2	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:50	JP1	SC-1	1	BXK1650

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-08	Client Sample Name: FG1-MW8s, 11/10/2014 1:46:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.1	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	710	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.047	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 20:28	BMW	IC5	1	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	3.333	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:53	JP1	SC-1	1	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426745-09	Client Sample Name: FG1-MW9s, 11/10/2014 10:08:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	18	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	780	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.035	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/11/14 20:45	BMW	IC5	2	BXK1027
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1256
3	EPA-350.1	11/19/14	11/19/14 14:59	JP1	SC-1	1	BXK1651

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Del-Tech
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Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1027						
Nitrate as N	BXK1027-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1256						
Total Dissolved Solids @ 180 C	BXK1256-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1650						
Ammonia as N	BXK1650-BLK1	0.034800	mg/L	0.10	0.033	J
QC Batch ID: BXK1651						
Ammonia as N	BXK1651-BLK1	ND	mg/L	0.10	0.033	

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Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BXK1027											
Nitrate as N	BXK1027-BS1	LCS	5.1790	5.0000	mg/L	104		90 - 110			
QC Batch ID: BXK1256											
Total Dissolved Solids @ 180 C	BXK1256-BS1	LCS	595.00	586.00	mg/L	102		90 - 110			
QC Batch ID: BXK1650											
Ammonia as N	BXK1650-BS1	LCS	1.0888	1.0000	mg/L	109		90 - 110			
QC Batch ID: BXK1651											
Ammonia as N	BXK1651-BS1	LCS	1.0794	1.0000	mg/L	108		90 - 110			

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Del-Tech
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Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK1027		Used client sample: Y - Description: FG1-MW1d, 11/10/2014 10:41								
Nitrate as N	DUP	426745-01RE'	0.86800	0.86200		mg/L	0.7		10	
	MS	426745-01RE'	0.86800	11.331	10.101	mg/L		104	80 - 120	
	MSD	426745-01RE'	0.86800	11.281	10.101	mg/L	0.4	103	10	80 - 120
QC Batch ID: BXK1256		Used client sample: Y - Description: FG1-MW1d, 11/10/2014 10:41								
Total Dissolved Solids @ 180 C	DUP	1426745-01	975.00	975.00		mg/L	0		10	
QC Batch ID: BXK1650		Used client sample: Y - Description: GOD-MW5s, 11/10/2014 17:59								
Ammonia as N	DUP	1426738-05	0.038000	0.038800		mg/L	2.1		10	J
	MS	1426738-05	0.038000	1.1011	1.1111	mg/L		95.7	90 - 110	
	MSD	1426738-05	0.038000	1.1593	1.1111	mg/L	5.2	101	10	90 - 110
QC Batch ID: BXK1651		Used client sample: Y - Description: FG1-MW8s, 11/10/2014 13:46								
Ammonia as N	DUP	1426745-08	0.047400	0.044200		mg/L	7.0		10	J
	MS	1426745-08	0.047400	1.2219	1.1111	mg/L		106	90 - 110	
	MSD	1426745-08	0.047400	1.2219	1.1111	mg/L	0	106	10	90 - 110

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Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #1
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Gallo Cattle Company Bear Creek
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427015
Invoice ID: B189833

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427015

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 14.27015		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Reduced Constituent Suite				From Filtered Sample:	
Name:	Del-Tech	Project:	Daily Representative Monitoring Program	Ammonia-N, NO3-N, Total Dissolved Solids	
Address:	645 N Yosemite	Site:	Gallo Cattle Company Bear Creek		
City:	Oakdale	Samplers Name:	Del Tech / Stacy Jones		
State:	CA	Global ID:			
Attn:	Don Light				
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved
- 1	BEA-MW1s, BEA-MW1d BEA-MW1dd	11-12-14	10:11	GW	x
- 2	BEA-MW2s, BEA-MW2d BEA-MW2dd		11:06		x
3	BEA-MW3s, BEA-MW3d		10:34		x
- 3d	BEA-MW3s, BEA-MW3d				x
- 4	#4 Field Duplicate		N/A		x
6					
7					
8					
9					
10					
11					

SHORT HOLDING TIME Cr-6 NO2 NO3 OF SS DO Cl2 BOD MBAS COT	CHK BY: [Signature] DISTRIBUTION: [Signature] SUB-OUT: [Signature]
---	--

Relinquished by: (Signature)	[Signature]	11-12-14	1740	Received By: [Signature]	11-12-14 1740
Relinquished by: (Signature)	[Signature]	11-12-14	1830	Received By: [Signature]	11-12-14 18:30
Relinquished by: (Signature)	[Signature]			Received By: [Signature]	11-12-14 2335

Comments

- Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
- Lab reports shall identify sampled wells exactly as shown on this CoC.
- Send lab reports to Luhdorff and Scallinani Consulting Engineers via email: llavagnino@sce.com, rbryson@sce.com, pdhalliwal@sce.com
- Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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3C LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1427015

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: P5 Thermometer ID: 207 Date/Time: 11/12/14 2335
 Temperature: (A) 0.8 °C (C) 0.4 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A	H	H						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time: 11/13/14 0650 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)

Sample Numbering Completed By: _____

A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1427015-01	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 10:11
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: BEA-MW1dd	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427015-02	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 11:06
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: BEA-MW2dd	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427015-03	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 10:34
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: BEA-MW4d	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427015-04	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 00:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Filed Duplicate #4	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427015-01	Client Sample Name: BEA-MW1dd, 11/12/2014 10:11:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.18	mg/L	0.20	0.036	EPA-300.0	ND	J,A10	1
Total Dissolved Solids @ 180 C	1300	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	34	mg/L	2.0	0.66	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:11	OLH	IC2	2	BXK1225
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1529
3	EPA-350.1	11/20/14	11/20/14 14:26	JP1	SC-1	20	BXK1741

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427015-02	Client Sample Name: BEA-MW2dd, 11/12/2014 11:06:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	6.4	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	490	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.11	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:47	OLH	IC2	1	BXK1225
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	3.333	BXK1529
3	EPA-350.1	11/20/14	11/20/14 14:28	JP1	SC-1	1	BXK1741

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427015-03	Client Sample Name: BEA-MW4d, 11/12/2014 10:34:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	18	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	880	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.086	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 03:04	OLH	IC2	1	BXK1225
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	5	BXK1529
3	EPA-350.1	11/20/14	11/20/14 14:30	JP1	SC-1	1	BXK1741

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427015-04	Client Sample Name: Filed Duplicate #4, 11/12/2014 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.15	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1300	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	34	mg/L	2.0	0.66	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 09:36	OLH	IC2	1	BXK1225
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1529
3	EPA-350.1	11/20/14	11/20/14 14:31	JP1	SC-1	20	BXK1741

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1225						
Nitrate as N	BXK1225-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1529						
Total Dissolved Solids @ 180 C	BXK1529-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1741						
Ammonia as N	BXK1741-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1225										
Nitrate as N	BXK1225-BS1	LCS	5.3130	5.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1529										
Total Dissolved Solids @ 180 C	BXK1529-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1741										
Ammonia as N	BXK1741-BS1	LCS	0.93760	1.0000	mg/L	93.8		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1225		Used client sample: Y - Description: BEA-MW1dd, 11/12/2014 10:11								
Nitrate as N	DUP	427015-01RE2	0.18800	0.18000		mg/L	4.3		10	
	MS	427015-01RE2	0.18800	5.2828	5.0505	mg/L		101		80 - 120
	MSD	427015-01RE2	0.18800	5.3960	5.0505	mg/L	2.1	103	10	80 - 120
QC Batch ID: BXK1529		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427086-01	6100.0	6000.0		mg/L	1.7		10	
QC Batch ID: BXK1741		Used client sample: N								
Ammonia as N	DUP	1426918-02	0.16450	0.17190		mg/L	4.4		10	
	MS	1426918-02	0.16450	1.2999	1.1111	mg/L		102		90 - 110
	MSD	1426918-02	0.16450	1.3063	1.1111	mg/L	0.5	103	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:27
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Bear Creek
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A10 PQL's and MDL's were raised due to matrix interference.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Gallo Cattle Company Cottonwood
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427016
Invoice ID: B189834

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Water Analysis (General Chemistry).....	7
1427016-02 - COT-MW9	
Water Analysis (General Chemistry).....	8
1427016-03 - COT-MW10	
Water Analysis (General Chemistry).....	9

Quality Control Reports

Water Analysis (General Chemistry)	
Method Blank Analysis.....	10
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Precision and Accuracy.....	12

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Case Narratives

Case Narrative for Work Order 1427016

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:			Analysis Requested		
Reduced Constituent Suite					
Name:	Del-Tech	Project:	Dairy Representative Monitoring Program	From Filtered Sample:	Ammonia-N, NO ₃ -N, Total Dissolved Solids
Address:	645 N Yosemite	Client:	Gallo Cattle Company Cottonwood	Ammonia-N, NO ₃ -N, Total Dissolved Solids	
City:	Oakdale	Sample Name:	Del Tech Stacy Young	Global ID:	
State:	CA	Date Sampled:		Time Sampled:	
Attn:	Don Light	Date Sampled:		Time Sampled:	
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1/Pc Unpreserved
1	COT-MM1, COT-MM4d				X
2	COT-MM2				X
3	COT-MM3				X
4	COT-MM4				X
5	COT-MM5				X
6	COT-MM6				X
7	COT-MM7				X
8	COT-MM8	11-12-14 17:27	GW		X
9	COT-MM9	11-12-14 16:30	GW		X
10	COT-MM10	11-12-14 17:00	GW		X
11	COT-MM11s, COT-MM11d				X
12	COT-MM12s, COT-MM12d				X
13	COT-MM13s, COT-MM13d				X
14	COT-MM14s, COT-MM14d				X
15	Field Duplicate				X
16					
17					
18					

SHORT HOLDING TIME
 Cr+6 NO₂ NO₃ OF SS
 DO Cl₂ BOD MBAS COT

CHK BY: MM DISTRIBUTION: MM
 SUB-OUT:

Received By: [Signature] Date & Time: 11-12-14 17:40

Received By: [Signature] Date & Time: 11-12-14 18:30

Received By: [Signature] Date & Time: 11-12-14 2335

Relinquished by: (Signature) [Signature] Date & Time: 11-12-14 17:40

Relinquished by: (Signature) [Signature] Date & Time: 11-12-14 18:30

Relinquished by: (Signature) [Signature] Date & Time: 11-12-14 2335

Comments:

1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.

2) Lab reports shall identify sampled wells exactly as shown on this CoC.

3) Send lab reports to Luthardt and Scalmani Consulting Engineers via email: llavagnino@isce.com, rboyson@isce.com, pethalliva@isce.com

4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page (Of) 1

Submission #: 1427016

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PB Thermometer ID: 207 Date/Time: 11/12/14 2335
 Temperature: (A) 0.8 °C / (C) 0.4 °C Analyst Init: N

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: _____ Date/Time: 11/13/14 0051 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427016-01	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 17:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW8	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1427016-02	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 16:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW9	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1427016-03	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 17:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW10	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427016-01	Client Sample Name: COT-MW8, 11/12/2014 5:27:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	33	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	800	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-300.0	11/13/14	11/14/14	11:30	OLH	IC5	5	BXK1229
2	SM-2540C	11/18/14	11/18/14	13:00	CAD	MANUAL	5	BXK1529
3	EPA-350.1	11/20/14	11/20/14	15:26	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427016-02	Client Sample Name: COT-MW9, 11/12/2014 4:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	23	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	820	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-300.0	11/13/14	11/14/14	11:47	OLH	IC5	2	BXK1229
2	SM-2540C	11/18/14	11/18/14	13:00	CAD	MANUAL	5	BXK1529
3	EPA-350.1	11/20/14	11/20/14	15:30	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427016-03	Client Sample Name: COT-MW10, 11/12/2014 5:06:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	36	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 12:05	OLH	IC5	2	BXK1229
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1529
3	EPA-350.1	11/20/14	11/20/14 15:31	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1229						
Nitrate as N	BXK1229-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1529						
Total Dissolved Solids @ 180 C	BXK1529-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1742						
Ammonia as N	BXK1742-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1229										
Nitrate as N	BXK1229-BS1	LCS	5.3810	5.0000	mg/L	108		90 - 110		
QC Batch ID: BXK1529										
Total Dissolved Solids @ 180 C	BXK1529-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXK1742										
Ammonia as N	BXK1742-BS1	LCS	1.0417	1.0000	mg/L	104		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1229		Used client sample: N								
Nitrate as N	DUP	427021-01RE'	1.6670	1.6720		mg/L	0.3		10	
	MS	427021-01RE'	1.6670	6.8485	5.0505	mg/L		103		80 - 120
	MSD	427021-01RE'	1.6670	6.8505	5.0505	mg/L	0.0	103	10	80 - 120
QC Batch ID: BXK1529		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1427086-01	6100.0	6000.0		mg/L	1.7		10	
QC Batch ID: BXK1742		Used client sample: Y - Description: COT-MW8, 11/12/2014 17:27								
Ammonia as N	DUP	1427016-01	ND	0.038800		mg/L			10	J
	MS	1427016-01	ND	1.2109	1.1111	mg/L		109		90 - 110
	MSD	1427016-01	ND	1.1888	1.1111	mg/L	1.8	107	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/04/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Gallo Cattle Company Cottonwood
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427159
Invoice ID: B190152

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427159

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Name: Del-Tech		Reduced Constituent Suite			
Address: 645 N Yosemite		Project: Dairy Representative Monitoring Program			
City: Oakdale		Gallo Cattle Company Cottonwood			
State: CA		Samplers Name: Del Tech/Steigberg			
Attn: Don Light		Global ID:			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved
1	COT-MW1 , COT-MW1d	11-13-14	14:19	GW	x
2	COT-MW2				x
3	COT-MW3				x
4	COT-MW4				x
5	COT-MW5				x
6	COT-MW6				x
7	COT-MW7	11-13-14	11:57	GW	x
8	COT-MW8				x
9	COT-MW9				x
10	COT-MW40				x
11	COT-MW11 , COT-MW11d	11-13-14	13:25	GW	x
12	COT-MW12 , COT-MW12d	11-13-14	12:54	GW	x
13	COT-MW13 , COT-MW13d	11-13-14	12:25	GW	x
14	COT-MW14 , COT-MW14d	11-13-14	15:16	GW	x
15	Field Duplicate	11-13-14	N/A	GW	x
16					
17					
18					

From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids	
SHORT HOLDING TIME	
Cr ⁶⁺ NO ₂ NO ₃ OP SS	
DO Cl ₂ BOD MBAS COT	
CHK BY	DISTRIBUTION
	SUB-OUT

Relinquished by: (Signature)	11-13-14 / 1735	Received By: [Signature]	Date & Time: 11-13-14 17:35
Relinquished by: (Signature)	11-13-14 1830	Received By: [Signature]	Date & Time: 11-13-14 20:30
Relinquished by: (Signature)	[Signature]	Received By: [Signature]	Date & Time: 11-13-14 21:50

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luidorff and Scatmanini Consulting Engineers via email: llavagnino@isce.com, rbyson@isce.com, pdhalimal@isce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-27159

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98, Container: PG, Thermometer ID: 208, Date/Time: 11-13-14 2150, Analyst Init: M.

Temperature: (A) 0.5 °C / (C) 0.1 °C

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 11-13-14 2150 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427159-01	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 14:19
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis:	2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	
			Matrix:	
		Sample QC Type (SACode):		
		Cooler ID:		
1427159-02	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 11:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW7	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis:	2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	
			Matrix:	
		Sample QC Type (SACode):		
		Cooler ID:		
1427159-03	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 13:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COT-MW11d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis:	2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	
			Matrix:	
		Sample QC Type (SACode):		
		Cooler ID:		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1427159-04	COC Number:	---	Receive Date: 11/13/2014 21:50
	Project Number:	---	Sampling Date: 11/13/2014 12:54
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	COT-MW12d	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
	1427159-05	COC Number:	---
Project Number:		---	Sampling Date: 11/13/2014 12:25
Sampling Location:		---	Sample Depth: ---
Sampling Point:		COT-MW13d	Lab Matrix: Water
Sampled By:		---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:
1427159-06		COC Number:	---
	Project Number:	---	Sampling Date: 11/13/2014 15:16
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	COT-MW14d	Lab Matrix: Water
	Sampled By:	---	Sample Type: Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint):
			Matrix:
			Sample QC Type (SACode):
			Cooler ID:

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1427159-07 COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Field Duplicate #1 Sampled By: ---	Receive Date: 11/13/2014 21:50 Sampling Date: 11/13/2014 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: Location ID (FieldPoint): Matrix: Sample QC Type (SACode): Cooler ID:
---	---

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427159-01	Client Sample Name: COT-MW1d, 11/13/2014 2:19:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	36	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	880	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.034	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 00:26	BMW	IC1	2	BXK1329
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1768
3	EPA-350.1	11/21/14	11/24/14 11:39	JP1	SC-1	1	BXK1933

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427159-02	Client Sample Name: COT-MW7, 11/13/2014 11:57:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	70	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 00:56	OLH	IC1	5	BXK1329
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1768
3	EPA-350.1	11/21/14	11/24/14 11:40	JP1	SC-1	1	BXK1933

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427159-03	Client Sample Name: COT-MW11d, 11/13/2014 1:25:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	77	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.035	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/15/14 01:10	OLH	IC1	5	BXK1329
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1768
3	EPA-350.1	11/21/14	11/24/14 11:41	JP1	SC-1	1	BXK1933

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427159-04	Client Sample Name: COT-MW12d, 11/13/2014 12:54:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	61	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/15/14 01:25	OLH	IC1	5	BXK1329
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1768
3	EPA-350.1	11/21/14	11/24/14 11:42	JP1	SC-1	1	BXK1933

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427159-05	Client Sample Name: COT-MW13d, 11/13/2014 12:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	82	mg/L	1.0	0.18	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 01:40	OLH	IC1	10	BXK1329
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1768
3	EPA-350.1	11/21/14	11/24/14 11:43	JP1	SC-1	1	BXK1933

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427159-06	Client Sample Name: COT-MW14d, 11/13/2014 3:16:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	69	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 01:55	OLH	IC1	5	BXK1329
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1768
3	EPA-350.1	11/21/14	11/24/14 11:44	JP1	SC-1	1	BXK1933

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427159-07	Client Sample Name: Field Duplicate #1, 11/13/2014 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	36	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	900	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 02:10	OLH	IC1	2	BXK1329
2	SM-2540C	11/20/14	11/20/14 09:00	CAD	MANUAL	5	BXK1768
3	EPA-350.1	11/21/14	11/24/14 11:44	JP1	SC-1	1	BXK1933

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1329						
Nitrate as N	BXK1329-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1768						
Total Dissolved Solids @ 180 C	BXK1768-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1933						
Ammonia as N	BXK1933-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1329										
Nitrate as N	BXK1329-BS1	LCS	5.1570	5.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1768										
Total Dissolved Solids @ 180 C	BXK1768-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110		
QC Batch ID: BXK1933										
Ammonia as N	BXK1933-BS1	LCS	0.97300	1.0000	mg/L	97.3		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1329		Used client sample: Y - Description: COT-MW1d, 11/13/2014 14:19								
Nitrate as N	DUP	427159-01RE2	37.030	36.945		mg/L	0.2		10	
	MS	427159-01RE2	37.030	62.460	25.253	mg/L		101		80 - 120
	MSD	427159-01RE2	37.030	62.429	25.253	mg/L	0.0	101	10	80 - 120
QC Batch ID: BXK1768		Used client sample: Y - Description: COT-MW11d, 11/13/2014 13:25								
Total Dissolved Solids @ 180 C	DUP	1427159-03	1450.0	1435.0		mg/L	1.0		10	
QC Batch ID: BXK1933		Used client sample: N								
Ammonia as N	DUP	1427157-04	ND	ND		mg/L			10	
	MS	1427157-04	ND	1.1569	1.1111	mg/L		104		90 - 110
	MSD	1427157-04	ND	1.1370	1.1111	mg/L	1.7	102	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 11:08
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Cottonwood
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Gallo Cattle Company Santa Rita
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427017
Invoice ID: B189839

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427017

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Name:	Del-Tech	Reduced Constituent Suite			
Address:	645 N Yosemite	Project: Dairy Representative Monitoring Program	40		
City:	Oakdale	Site: Gallo Cattle Company Santa Rita			
State:	95361	Sampler Name: Del Tech / Stacy Young			
CA		Global ID:			
Attn:	Don Light				
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Gr Fe Unpreserved
1	SAN-MW1d	11/21/14	14:31	GW	x
2	SAN-MW2s, SAN-MW2d				x
3	SAN-MW3s, SAN-MW3d				x
4	SAN-MW4s, SAN-MW4d		14:07		x
5	SAN-MW5s, SAN-MW5d		13:37		x
6	SAN-MW6s, SAN-MW6d		16:04		x
7	SAN-MW7s, SAN-MW7d		15:24		x
8	SAN-MW8s, SAN-MW8d		15:00		x
9	NA-Field-Duplicate				x
10					
11					
12					
From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids					
SHORT HOLDING TIME Cr ⁶ NO ₂ (NO) OP SS DO Cl ₂ BOD MBAS COT CHK BY DISTRIBUTION SUB-OUT					
Comments			Reinquired by: (Signature)		Date & Time
1) Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luidorff and Scalmani Consulting Engineers via email: llavagnino@lscce.com, ronyson@lscce.com, pdhalwal@lscce.com 4) Send bill to Del-Tech, only.			SAG 11-13-14 / 1740		11-12-14 17:40
			Reinquired by: (Signature)		Date & Time
			KPS 11-12-14 18:30		11-12-14 18:30
			Reinquired by: (Signature)		Date & Time
			KPS 11-12-14 18:35		11-12-14 18:35

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1427017

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 207
 Temperature: (A) 0.8 °C / (C) 0.4 °C

Date/Time: 11-17-14 2335
 Analyst Init: N

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A	A	A				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: NA Date/Time: 11-13-14 0052 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427017-01	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 14:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427017-02	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 14:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 1-Field Filtered and Acidified	
1427017-03	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 13:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427017-04	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 16:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427017-05	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 15:29
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW7d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427017-06	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 15:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SAN-MW8d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427017-01	Client Sample Name: SAN-MW1d, 11/12/2014 2:31:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	47	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 03:46	OLH	IC1	5	BXK1222
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1531
3	EPA-350.1	11/20/14	11/20/14 15:33	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427017-02	Client Sample Name: SAN-MW4d, 11/12/2014 2:04:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	72	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 04:00	OLH	IC1	5	BXK1222
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1531
3	EPA-350.1	11/20/14	11/20/14 15:35	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427017-03	Client Sample Name: SAN-MW5d, 11/12/2014 1:37:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	48	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 04:15	OLH	IC1	5	BXK1222
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1531
3	EPA-350.1	11/20/14	11/20/14 15:35	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427017-04	Client Sample Name: SAN-MW6s, 11/12/2014 4:04:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	34	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 04:30	OLH	IC1	5	BXK1222
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1531
3	EPA-350.1	11/20/14	11/20/14 15:37	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427017-05	Client Sample Name: SAN-MW7d, 11/12/2014 3:29:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	29	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	980	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 04:45	OLH	IC1	5	BXK1222
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1531
3	EPA-350.1	11/20/14	11/20/14 15:37	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427017-06	Client Sample Name: SAN-MW8d, 11/12/2014 3:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	15	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	800	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 05:00	OLH	IC1	2	BXK1221
2	SM-2540C	11/18/14	11/18/14 14:00	CAD	MANUAL	5	BXK1531
3	EPA-350.1	11/20/14	11/20/14 15:39	JP1	SC-1	1	BXK1742

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1221						
Nitrate as N	BXK1221-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1222						
Nitrate as N	BXK1222-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1531						
Total Dissolved Solids @ 180 C	BXK1531-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1742						
Ammonia as N	BXK1742-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1221										
Nitrate as N	BXK1221-BS1	LCS	5.3210	5.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1222										
Nitrate as N	BXK1222-BS1	LCS	5.3510	5.0000	mg/L	107		90 - 110		
QC Batch ID: BXK1531										
Total Dissolved Solids @ 180 C	BXK1531-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXK1742										
Ammonia as N	BXK1742-BS1	LCS	1.0417	1.0000	mg/L	104		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK1221		Used client sample: Y - Description: TON-MW1s, 11/12/2014 12:33								
Nitrate as N	DUP	427018-01RE	1.9550	2.0850		mg/L	6.4		10	
	MS	427018-01RE	1.9550	28.197	25.253	mg/L		104		80 - 120
	MSD	427018-01RE	1.9550	28.333	25.253	mg/L	0.5	104	10	80 - 120
QC Batch ID: BXK1222		Used client sample: Y - Description: SAN-MW1d, 11/12/2014 14:31								
Nitrate as N	DUP	427017-01RE	47.445	47.530		mg/L	0.2		10	
	MS	427017-01RE	47.445	73.747	25.253	mg/L		104		80 - 120
	MSD	427017-01RE	47.445	73.667	25.253	mg/L	0.1	104	10	80 - 120
QC Batch ID: BXK1531		Used client sample: Y - Description: SAN-MW1d, 11/12/2014 14:31								
Total Dissolved Solids @ 180 C	DUP	1427017-01	1170.0	1165.0		mg/L	0.4		10	
QC Batch ID: BXK1742		Used client sample: Y - Description: COT-MW8, 11/12/2014 17:27								
Ammonia as N	DUP	1427016-01	ND	0.038800		mg/L			10	J
	MS	1427016-01	ND	1.2109	1.1111	mg/L		109		90 - 110
	MSD	1427016-01	ND	1.1888	1.1111	mg/L	1.8	107	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 16:28
Project: Dairy Representative Monitoring Program
Project Number: Gallo Cattle Company Santa Rita
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 11/25/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Genasci Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426372
Invoice ID: B189538

Enclosed are the results of analyses for samples received by the laboratory on 11/5/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426372

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody				
Report to: 14-26372 Reduced Constituent Suite		Analysis Requested				
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 Attn: Don Light	Project: Dairy Representative Monitoring Program Site: Genasci Dairy Samplers Name: Del-Tech/Steve Young Global ID:	From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids	CHK BY: [Signature] DISTRIBUTION: [Signature] SUB-OUT: <input type="checkbox"/>			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Cl/Pc Unpreserved	SHORT HOLDING TIME
-1	GEN-MW1	11-5-14	8:49	GW	x	Cr ⁶⁺ NO ₂ (NO) OP SS
-2	GEN-MW2		10:02		x	DO Cl ₂ BOD MBAS COT
-3	GEN-MW3		8:08		x	
-4	GEN-MW5		9:37		x	
-5	GEN-MW6		12:58		x	
-6	GEN-MW7		9:09		x	
-7	GEN-MW8		10:30		x	
-8	GEN-MW9		11:50		x	
-9	GEN-MW10		10:56		x	
-10	GEN-MW11s, GEN-MW11		11:22		x	
-11	GEN-MW12s, GEN-MW12		12:26		x	
12	Field Duplicate				x	
13						
14						
15						
Comments 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lohdorff and Scalmani Consulting Engineers via email: lsc@lsc.com, rbryson@lsc.com, pdhalliwal@lsc.com 4) Send bill to Del-Tech, only.						Relinquished by: (Signature) [Signature] 11-5-14 17:05 Date & Time
Relinquished by: (Signature) [Signature] 11-5-14 18:30 Date & Time						Received by: [Signature] 11-5-14 18:30 Date & Time
Relinquished by: (Signature) [Signature] 11-5-14 21:45 Date & Time						Received by: [Signature] 11-5-14 21:45 Date & Time

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 2

Submission #: 1426372

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers
 Intact? Yes No Intact? Yes No None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PB Thermometer ID: 107 Date/Time: 11/5/14 2:45
 Temperature: (A) 0.8 °C (C) 0.4 °C Analyst Init: JN

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL / GENERAL	A	A	A	A	A	A	A	A	A	A
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: *[Signature]* Date/Time: 11/05/14 2:45
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 of 3

Submission #: 14-26372

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.98 Container: PB Thermometer ID: 107 Date/Time 11.5.14 2:45
 Temperature: (A) 0.8 °C / (C) 0.4 °C Analyst Init JN

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
HA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 11/05/14 2:45
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426372-01	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 08:49
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-02	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 10:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-03	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 08:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-04	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 09:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW5	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-05	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 12:58
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW6	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426372-06	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 09:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW7	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-07	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 10:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW8	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-08	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW9	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-09	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 10:56
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW10	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426372-10	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 11:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW11s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426372-11	COC Number:	---	Receive Date:	11/05/2014 21:05
	Project Number:	---	Sampling Date:	11/05/2014 12:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GEN-MW12s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-01	Client Sample Name: GEN-MW1, 11/5/2014 8:49:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	9.4	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	8.9	mg/L	0.50	0.16	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 22:12	BMW	IC5	1	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	10	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:57	JP1	SC-1	5	BXK0574

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-02	Client Sample Name: GEN-MW2, 11/5/2014 10:02:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	52	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 22:30	BMW	IC5	5	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	10	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:22	JP1	SC-1	1	BXK0574

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-03	Client Sample Name: GEN-MW3, 11/5/2014 8:08:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	73	mg/L	1.0	0.25	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	3800	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	25	mg/L	2.0	0.66	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 22:47	BMW	IC5	10	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	20	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:23	JP1	SC-1	20	BXK0574

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-04	Client Sample Name: GEN-MW5, 11/5/2014 9:37:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	120	mg/L	1.0	0.25	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.066	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 23:04	BMW	IC5	10	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	10	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:26	JP1	SC-1	1	BXK0582

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-05	Client Sample Name: GEN-MW6, 11/5/2014 12:58:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	72	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 23:22	BMW	IC5	5	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	5	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:32	JP1	SC-1	1	BXK0582

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-06	Client Sample Name: GEN-MW7, 11/5/2014 9:09:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	24	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	520	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 23:39	BMW	IC5	2	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	3.333	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:32	JP1	SC-1	1	BXK0582

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-07	Client Sample Name: GEN-MW8, 11/5/2014 10:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	74	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 23:57	BMW	IC5	5	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	10	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:33	JP1	SC-1	1	BXK0582

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-08	Client Sample Name: GEN-MW9, 11/5/2014 11:50:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	89	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/06/14	11/07/14 00:14	BMW	IC5	5	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	5	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:34	JP1	SC-1	1	BXK0582

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

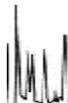
BCL Sample ID: 1426372-09	Client Sample Name: GEN-MW10, 11/5/2014 10:56:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	28	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.24	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 01:06	LD1	IC5	2	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	5	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:35	JP1	SC-1	1	BXK0582

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-10	Client Sample Name: GEN-MW11s, 11/5/2014 11:22:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	130	mg/L	1.0	0.25	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 01:24	LD1	IC5	10	BXK0558
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	5	BXK0875
3	EPA-350.1	11/07/14	11/12/14 15:35	JP1	SC-1	1	BXK0582

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426372-11	Client Sample Name: GEN-MW12s, 11/5/2014 12:26:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	90	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 02:16	LD1	IC5	5	BXK0559
2	SM-2540C	11/11/14	11/11/14 10:00	CAD	MANUAL	5	BXK0876
3	EPA-350.1	11/07/14	11/12/14 15:37	JP1	SC-1	1	BXK0582

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0558						
Nitrate as N	BXK0558-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK0559						
Nitrate as N	BXK0559-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK0574						
Ammonia as N	BXK0574-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK0582						
Ammonia as N	BXK0582-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK0875						
Total Dissolved Solids @ 180 C	BXK0875-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK0876						
Total Dissolved Solids @ 180 C	BXK0876-BLK1	ND	mg/L	6.7	6.7	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXK0558										
Nitrate as N	BXK0558-BS1	LCS	5.2320	5.0000	mg/L	105		90 - 110		
QC Batch ID: BXK0559										
Nitrate as N	BXK0559-BS1	LCS	5.2030	5.0000	mg/L	104		90 - 110		
QC Batch ID: BXK0574										
Ammonia as N	BXK0574-BS1	LCS	1.0250	1.0000	mg/L	102		90 - 110		
QC Batch ID: BXK0582										
Ammonia as N	BXK0582-BS1	LCS	0.94540	1.0000	mg/L	94.5		90 - 110		
QC Batch ID: BXK0875										
Total Dissolved Solids @ 180 C	BXK0875-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXK0876										
Total Dissolved Solids @ 180 C	BXK0876-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK0558		Used client sample: Y - Description: GEN-MW1, 11/05/2014 08:49								
Nitrate as N	DUP	426372-01RE	9.1800	9.1520		mg/L	0.3		10	
	MS	426372-01RE	9.1800	19.875	10.101	mg/L		106		80 - 120
	MSD	426372-01RE	9.1800	19.851	10.101	mg/L	0.1	106	10	80 - 120
QC Batch ID: BXK0559		Used client sample: Y - Description: GEN-MW12s, 11/05/2014 12:26								
Nitrate as N	DUP	426372-11RE	90.275	90.060		mg/L	0.2		10	
	MS	426372-11RE	90.275	114.84	25.253	mg/L		97.3		80 - 120
	MSD	426372-11RE	90.275	114.71	25.253	mg/L	0.1	96.8	10	80 - 120
QC Batch ID: BXK0574		Used client sample: N								
Ammonia as N	DUP	1426331-01	0.11140	0.10390		mg/L	7.0		10	
	MS	1426331-01	0.11140	1.2548	1.1111	mg/L		103		90 - 110
	MSD	1426331-01	0.11140	1.2222	1.1111	mg/L	2.6	100	10	90 - 110
QC Batch ID: BXK0582		Used client sample: Y - Description: GEN-MW5, 11/05/2014 09:37								
Ammonia as N	DUP	1426372-04	0.066300	0.057300		mg/L	14.6		10	J,A02
	MS	1426372-04	0.066300	1.1130	1.1111	mg/L		94.2		90 - 110
	MSD	1426372-04	0.066300	1.1472	1.1111	mg/L	3.0	97.3	10	90 - 110
QC Batch ID: BXK0875		Used client sample: Y - Description: GEN-MW1, 11/05/2014 08:49								
Total Dissolved Solids @ 180 C	DUP	1426372-01	1640.0	1670.0		mg/L	1.8		10	
QC Batch ID: BXK0876		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426409-01	27700	27300		mg/L	1.5		10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:14
Project: Dairy Representative Monitoring Program
Project Number: Genasci Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: J. Troost Dairy
 BCL Project: Dairy Representative Monitoring Program
 BCL Work Order: 1426860
 Invoice ID: B189779

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426860

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 14-26860 Report to:		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 CA Attn: Don Light		Project: Dairy Representative Monitoring Program Site: J. Troost Dairy Samplers Name: DON LIGHT / DBLTECH Global ID -		Analysis Requested	
From Filled Sample: Ammonia-N, NO3-N, Total Dissolved Solids		Reduced Constituent Suite Project: Dairy Representative Monitoring Program Site: J. Troost Dairy Samplers Name: DON LIGHT / DBLTECH Global ID -		From Filled Sample: Ammonia-N, NO3-N, Total Dissolved Solids	
Lab # 1 2 3 4 5 6 7 8 9 10 11 12	Strike out non-sampled wells TRO-MW1 / DRY TRO-MW2 TRO-MW3 Field Duplicate	Date Sampled 11/11/14 11/11/14 11/11/14 11/11/14	Time Sampled 1545 1638	Matrix GW GW	Ct. Pe Unpreserved x x x
Comments 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lunderdorf and Scalimanni Consulting Engineers via email: llavagnino@lscea.com; rbryson@lscea.com; pdhalliwal@lscea.com 4) Send bill to Del-Tech, only.		SHOFT HOLDING TIME Cl ⁻ NO ₂ NO ₃ OP SS DO Cl ₂ BOD MBAS COT		CHK BY DISTRIBUTION SUB-OUT	
Relinquished by: (Signature) [Signature] 11/11/14 1930		Received By: [Signature] 11-11-14 19:30		Date & Time 11-11-14 19:30	
Relinquished by: (Signature) [Signature] 11/11/14 1930		Received by: [Signature] 11-11-14 19:30		Date & Time 11-11-14 19:30	
Relinquished by: (Signature) [Signature]		Received by: [Signature]		Date & Time 11-11-14 19:30	
(A)= Analysis (C)= Container (P)= Preservative					

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 2

Submission #: A-26860

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 107 Date/Time: 11-14-2015
 Temperature: (A) 1.0 °C (C) 0.6 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
3 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-14-2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: J. Troost Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426860-01	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 15:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TRO-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426860-02	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 16:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TRO-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426860-01	Client Sample Name: TRO-MW2, 11/11/2014 3:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	72	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 03:03	OLH	IC1	5	BXK1126
2	SM-2540C	11/15/14	11/15/14 12:30	CAD	MANUAL	5	BXK1300
3	EPA-350.1	11/20/14	11/20/14 13:20	JP1	SC-1	1	BXK1737

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426860-02	Client Sample Name: TRO-MW3, 11/11/2014 4:38:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	490	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 09:31	OLH	IC1	1	BXK1126
2	SM-2540C	11/15/14	11/15/14 12:30	CAD	MANUAL	3.333	BXK1300
3	EPA-350.1	11/20/14	11/20/14 13:21	JP1	SC-1	1	BXK1737

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1126						
Nitrate as N	BXK1126-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1300						
Total Dissolved Solids @ 180 C	BXK1300-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1737						
Ammonia as N	BXK1737-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1126										
Nitrate as N	BXK1126-BS1	LCS	5.0300	5.0000	mg/L	101		90 - 110		
QC Batch ID: BXK1300										
Total Dissolved Solids @ 180 C	BXK1300-BS1	LCS	545.00	586.00	mg/L	93.0		90 - 110		
QC Batch ID: BXK1737										
Ammonia as N	BXK1737-BS1	LCS	1.0272	1.0000	mg/L	103		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: J. Troost Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXK1126		Used client sample: N								
Nitrate as N	DUP	1426876-19	1.8530	1.8520		mg/L	0.1		10	
	MS	1426876-19	1.8530	7.1051	5.0505	mg/L		104		80 - 120
	MSD	1426876-19	1.8530	7.1051	5.0505	mg/L	0	104	10	80 - 120
QC Batch ID: BXK1300		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426828-03	1025.0	1000.0		mg/L	2.5		10	
QC Batch ID: BXK1737		Used client sample: N								
Ammonia as N	DUP	1426777-01	ND	ND		mg/L			10	
	MS	1426777-01	ND	1.0879	1.1111	mg/L		97.9		90 - 110
	MSD	1426777-01	ND	1.1173	1.1111	mg/L	2.7	101	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:29
Project: Dairy Representative Monitoring Program
Project Number: J. Troost Dairy
Project Manager: Don Light

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.

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Date of Report: 11/26/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: P&L Souza Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426746
Invoice ID: B189695

Enclosed are the results of analyses for samples received by the laboratory on 11/10/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426746

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody			
Report to: Reduced Constituent Suite Project: Dairy Representative Monitoring Program 48 Site: P & L Souza Dairy Sample Name: Del Tech / Stacy Young Global ID:					
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 CA Attn: Don Light		From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved
1	PLS-MW1s, PLS-MW1d	11-10-14	16:11	GW	x
2	PLS-MW2s, PLS-MW2d		16:32		x
3	PLS-MW3s, PLS-MW3d		17:22		x
4	PLS-MW4s, PLS-MW4d		15:49		x
5	PLS-MW5s, PLS-MW5d		16:59		x
6	PLS-MW6s, PLS-MW6d		15:26		x
7	PLS-MW7s, PLS-MW7d		14:57		x
8	PLS-MW8s, PLS-MW8d				
9	N/A Field Duplicate				
10					
11					
12					

SHORT HOLDING TIME
 Cr+6 NO₃ OP SS
 DO Cl₂ BOD MBAS COT

CHK BY:
 DISTRIBUTION
 SUB-OUT

Relinquished by: (Signature) <i>[Signature]</i>	11-10-14 / 1730	Received By: <i>[Signature]</i>	11-10-14 1730
Relinquished by: (Signature) <i>[Signature]</i>	11-10-14 1830	Received By: <i>[Signature]</i>	11-10-14 18:30
Relinquished by: (Signature) <i>[Signature]</i>		Received By: <i>[Signature]</i>	11-10-14 2130

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Luhdorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pdhalwai@lscce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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3C LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26746

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Intact? Yes No Intact? Yes No Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.98 Container: PE Thermometer ID: 107 Date/Time: 11-10-14 2:30
 Temperature: (A) 6.5 °C / (C) 6.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A	A	A	A	A	A			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-10-14 2:30 IS:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC)
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426746-01	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 16:11
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426746-02	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 16:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426746-03	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 17:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426746-04	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 15:49
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426746-05	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 16:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426746-06	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 15:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426746-07	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 14:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	PLS-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426746-01	Client Sample Name: PLS-MW1d, 11/10/2014 4:11:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	47	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.041	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 15:05	OLH	IC2	5	BXK0928
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1257
3	EPA-350.1	11/19/14	11/19/14 14:59	JP1	SC-1	1	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426746-02	Client Sample Name: PLS-MW2s, 11/10/2014 4:32:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	39	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.039	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 15:23	OLH	IC2	5	BXK0928
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1257
3	EPA-350.1	11/19/14	11/19/14 15:01	JP1	SC-1	1	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426746-03	Client Sample Name: PLS-MW3d, 11/10/2014 5:22:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	61	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.050	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 15:41	OLH	IC2	5	BXK0928
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1257
3	EPA-350.1	11/19/14	11/19/14 15:01	JP1	SC-1	1	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426746-04	Client Sample Name: PLS-MW4s, 11/10/2014 3:49:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	74	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	2.5	mg/L	0.50	0.16	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 15:58	BMW	IC2	5	BXK0928
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	10	BXK1257
3	EPA-350.1	11/19/14	11/19/14 15:27	JP1	SC-1	5	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426746-05	Client Sample Name: PLS-MW5d, 11/10/2014 4:59:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	69	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.17	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 16:51	BMW	IC2	5	BXK0928
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1257
3	EPA-350.1	11/19/14	11/19/14 15:03	JP1	SC-1	1	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426746-06	Client Sample Name: PLS-MW6s, 11/10/2014 3:26:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	51	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.058	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/11/14 17:09	BMW	IC2	5	BXK0928
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	10	BXK1257
3	EPA-350.1	11/19/14	11/19/14 15:04	JP1	SC-1	1	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426746-07	Client Sample Name: PLS-MW7s, 11/10/2014 2:57:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	65	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.061	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 17:26	BMW	IC2	5	BXK0928
2	SM-2540C	11/14/14	11/14/14 13:30	CAD	MANUAL	5	BXK1257
3	EPA-350.1	11/19/14	11/19/14 15:06	JP1	SC-1	1	BXK1651

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0928						
Nitrate as N	BXK0928-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1257						
Total Dissolved Solids @ 180 C	BXK1257-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1651						
Ammonia as N	BXK1651-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0928										
Nitrate as N	BXK0928-BS1	LCS	5.3120	5.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1257										
Total Dissolved Solids @ 180 C	BXK1257-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXK1651										
Ammonia as N	BXK1651-BS1	LCS	1.0794	1.0000	mg/L	108		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXK0928		Used client sample: N								
Nitrate as N	DUP	1426748-01	3.6180	3.5990		mg/L	0.5		10	
	MS	1426748-01	3.6180	8.8566	5.0505	mg/L		104		80 - 120
	MSD	1426748-01	3.6180	8.8354	5.0505	mg/L	0.2	103	10	80 - 120
QC Batch ID: BXK1257		Used client sample: Y - Description: PLS-MW1d, 11/10/2014 16:11								
Total Dissolved Solids @ 180 C	DUP	1426746-01	1195.0	1210.0		mg/L	1.2		10	
QC Batch ID: BXK1651		Used client sample: Y - Description: FG1-MW8s, 11/10/2014 13:46								
Ammonia as N	DUP	1426745-08	0.047400	0.044200		mg/L	7.0		10	J
	MS	1426745-08	0.047400	1.2219	1.1111	mg/L		106		90 - 110
	MSD	1426745-08	0.047400	1.2219	1.1111	mg/L	0	106	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:48
Project: Dairy Representative Monitoring Program
Project Number: P&L Souza Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Paul Caetano Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426866
Invoice ID: B189783

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426866

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 14. 26866		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:					
Reduced Constituent Suite					
Name: Del-Tech		Project: Dairy Representative Monitoring Program		From Filtered Sample:	
Address: 645 N Yosemite		Site: Paul Caetano Dairy		Ammonia-N, NO3-N, Total Dissolved Solids	
City: Oakdale		Samplers Name: Del Tech / Stacy Young			
State: 95361		Global ID:			
Atrn: Don Light					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Pe Unpreserved
- 1	CAE-MW1a , CAE-MW1d	11-11-14	15:05	GW	x
- 2	CAE-MW2a , CAE-MW2d	11-11-14	14:10		x
- 3	CAE-MW3a , CAE-MW3d	11-11-14	13:45		x
- 4	CAE-MW4a , CAE-MW4d	11-11-14	14:38		x
- 5	CAE-MW5s, CAE-MW5d	11-11-14	15:35		x
- 6	CAE-MW6s, CAE-MW6d	11-11-14	16:04		x
7	NA Field Duplicate				
8					
9					
10					
11					
12					

SHORT HOLDING TIME
 C+16 NO2 NO3 OP SS
 DO Cl2 BOD MBAS GOT

CHK BY: [Signature]
 DISTRIBUTION: [Signature]
 SUB-OUT: []

Relinquished by: (Signature)	11-11-14	1705	Received By: [Signature]	11-11-14	1705
Relinquished by: (Signature)	11-11-14	1830	Received By: [Signature]	11-11-14	1830
Relinquished by: (Signature)			Received By: [Signature]	11-11-14	2155

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this COC.
 3) Send lab reports to Lohdorff and Scalmanni Consulting Engineers via email: llava@nco@ljsca.com, rbryson@ljsca.com, pdhaliwal@ljsca.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 2

Submission #: 14-26866

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO

Emissivity: 0.98 Container: FB Thermometer ID: 107 Date/Time: 11-14-2011

Temperature: (A) 0.5 °C / (C) 0.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A	A	A				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
3 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: M Date/Time: 11-14-2011 2:55 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426866-01	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 15:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426866-02	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 14:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426866-03	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 13:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426866-04	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 14:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426866-05	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 15:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426866-06	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 16:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CAE-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426866-01	Client Sample Name: CAE-MW1d, 11/11/2014 3:05:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	20	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1800	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	150	mg/L	10	3.3	EPA-350.1	4.0	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 16:47	BMW	IC2	2	BXK1112
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	10	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:37	JP1	SC-1	100	BXK1740

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426866-02	Client Sample Name: CAE-MW2d, 11/11/2014 2:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	71	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.44	mg/L	0.10	0.033	EPA-350.1	0.040		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 17:05	BMW	IC2	5	BXK1112
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	5	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:01	JP1	SC-1	1	BXK1740

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426866-03	Client Sample Name: CAE-MW3d, 11/11/2014 1:45:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	79	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.085	mg/L	0.10	0.033	EPA-350.1	0.040	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 17:22	BMW	IC2	5	BXK1112
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	5	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:06	JP1	SC-1	1	BXK1740

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426866-04	Client Sample Name: CAE-MW4d, 11/11/2014 2:38:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	91	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.072	mg/L	0.10	0.033	EPA-350.1	0.040	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 17:40	BMW	IC2	5	BXK1112
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	5	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:08	JP1	SC-1	1	BXK1740

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426866-05	Client Sample Name: CAE-MW5s, 11/11/2014 3:35:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	45	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	760	mg/L	33	33	SM-2540C	ND		2
Ammonia as N	0.056	mg/L	0.10	0.033	EPA-350.1	0.040	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/12/14 17:57	BMW	IC2	5	BXK1112
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	3.333	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:10	JP1	SC-1	1	BXK1740

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426866-06	Client Sample Name: CAE-MW6d, 11/11/2014 4:04:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	51	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.080	mg/L	0.10	0.033	EPA-350.1	0.040	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/12/14 18:15	BMW	IC2	5	BXK1112
2	SM-2540C	11/17/14	11/17/14 13:30	CAD	MANUAL	5	BXK1368
3	EPA-350.1	11/20/14	11/20/14 14:10	JP1	SC-1	1	BXK1740

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1112						
Nitrate as N	BXK1112-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1368						
Total Dissolved Solids @ 180 C	BXK1368-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1740						
Ammonia as N	BXK1740-BLK1	0.040000	mg/L	0.10	0.033	J

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1112										
Nitrate as N	BXK1112-BS1	LCS	5.4400	5.0000	mg/L	109		90 - 110		
QC Batch ID: BXK1368										
Total Dissolved Solids @ 180 C	BXK1368-BS1	LCS	600.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BXK1740										
Ammonia as N	BXK1740-BS1	LCS	1.0794	1.0000	mg/L	108		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXK1112		Used client sample: N									
Nitrate as N	DUP	426867-01RE	44.110	43.910		mg/L	0.5		10		
	MS	426867-01RE	44.110	100.05	50.505	mg/L		111		80 - 120	
	MSD	426867-01RE	44.110	99.374	50.505	mg/L	0.7	109	10	80 - 120	
QC Batch ID: BXK1368		Used client sample: Y - Description: CAE-MW1d, 11/11/2014 15:05									
Total Dissolved Solids @ 180 C	DUP	1426866-01	1760.0	1720.0		mg/L	2.3		10		
QC Batch ID: BXK1740		Used client sample: Y - Description: CAE-MW2d, 11/11/2014 14:10									
Ammonia as N	DUP	1426866-02	0.43820	0.44730		mg/L	2.1		10		
	MS	1426866-02	0.43820	1.5690	1.1111	mg/L		102		90 - 110	
	MSD	1426866-02	0.43820	1.5626	1.1111	mg/L	0.4	101	10	90 - 110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:32
Project: Dairy Representative Monitoring Program
Project Number: Paul Caetano Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 01/27/2015

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Robert Gioletti & Sons Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426373
Invoice ID: B189336

Enclosed are the results of analyses for samples received by the laboratory on 11/5/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426373

Samples were filtered through a 0.45 micron filter prior to analysis.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 14-26373

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Intact? Yes No Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO Emissivity: 0.98 Container: PE Thermometer ID: 107 Date/Time: 11.5.14 2:45

Temperature: (A) 0.8 °C / (C) 0.4 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A	A	A	A	A	A	A		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 11/05/14 2:45
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426373-01	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426373-02	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 15:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426373-03	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 14:53
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426373-04	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 14:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426373-05	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 14:11
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426373-06	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 16:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW6d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426373-07	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 16:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426373-08	COC Number:	---	Receive Date:	11/05/2014 21:45
	Project Number:	---	Sampling Date:	11/05/2014 16:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROB-MW8s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-01	Client Sample Name: ROB-MW1d, 11/5/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	46	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2300	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.039	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 05:43	OLH	IC2	5	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	10	BXK0874
3	EPA-350.1	11/17/14	11/18/14 09:32	JP1	SC-1	1	BXK1451

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-02	Client Sample Name: ROB-MW2d, 11/5/2014 3:13:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	60	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 06:01	OLH	IC2	5	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	10	BXK0874
3	EPA-350.1	11/17/14	11/18/14 09:35	JP1	SC-1	1	BXK1451

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-03	Client Sample Name: ROB-MW3d, 11/5/2014 2:53:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	42	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 06:18	OLH	IC2	5	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	5	BXK0874
3	EPA-350.1	11/17/14	11/18/14 09:36	JP1	SC-1	1	BXK1451

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-04	Client Sample Name: ROB-MW4d, 11/5/2014 2:31:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	43	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.037		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 06:36	OLH	IC2	5	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	5	BXK0874
3	EPA-350.1	11/18/14	11/18/14 11:27	JP1	SC-1	1	BXK1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-05	Client Sample Name: ROB-MW5d, 11/5/2014 2:11:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	92	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	0.037	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 06:54	OLH	IC2	5	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	10	BXK0874
3	EPA-350.1	11/18/14	11/18/14 11:32	JP1	SC-1	1	BXK1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-06	Client Sample Name: ROB-MW6d, 11/5/2014 4:59:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	96	mg/L	1.0	0.25	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.039	mg/L	0.10	0.033	EPA-350.1	0.037	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/06/14	11/07/14 07:11	OLH	IC2	10	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	10	BXK0874
3	EPA-350.1	11/18/14	11/18/14 11:33	JP1	SC-1	1	BXK1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-07	Client Sample Name: ROB-MW7s, 11/5/2014 4:25:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	58	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	960	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	0.037		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 07:29	OLH	IC2	5	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	5	BXK0874
3	EPA-350.1	11/18/14	11/18/14 11:34	JP1	SC-1	1	BXK1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426373-08	Client Sample Name: ROB-MW8s, 11/5/2014 4:02:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	57	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.89	mg/L	0.10	0.033	EPA-350.1	0.037		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/07/14 07:46	OLH	IC2	5	BXK0592
2	SM-2540C	11/11/14	11/11/14 09:00	CAD	MANUAL	10	BXK0874
3	EPA-350.1	11/18/14	11/18/14 11:35	JP1	SC-1	1	BXK1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0592						
Nitrate as N	BXK0592-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK0874						
Total Dissolved Solids @ 180 C	BXK0874-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1451						
Ammonia as N	BXK1451-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1459						
Ammonia as N	BXK1459-BLK1	0.036900	mg/L	0.10	0.033	J

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0592										
Nitrate as N	BXK0592-BS1	LCS	5.0300	5.0000	mg/L	101		90 - 110		
QC Batch ID: BXK0874										
Total Dissolved Solids @ 180 C	BXK0874-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXK1451										
Ammonia as N	BXK1451-BS1	LCS	1.0605	1.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1459										
Ammonia as N	BXK1459-BS1	LCS	1.0264	1.0000	mg/L	103		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0592		Used client sample: Y - Description: ROB-MW1d, 11/05/2014 00:00								
Nitrate as N	DUP	426373-01RE'	47.500	46.570		mg/L	2.0		10	
	MS	426373-01RE'	47.500	74.768	25.253	mg/L		108		80 - 120
	MSD	426373-01RE'	47.500	74.071	25.253	mg/L	0.9	105	10	80 - 120
QC Batch ID: BXK0874		Used client sample: Y - Description: ROB-MW1d, 11/05/2014 00:00								
Total Dissolved Solids @ 180 C	DUP	1426373-01	2320.0	2290.0		mg/L	1.3		10	
QC Batch ID: BXK1451		Used client sample: Y - Description: ROB-MW1d, 11/05/2014 00:00								
Ammonia as N	DUP	1426373-01	0.039200	ND		mg/L			10	
	MS	1426373-01	0.039200	1.1588	1.1111	mg/L		101		90 - 110
	MSD	1426373-01	0.039200	1.1430	1.1111	mg/L	1.4	99.3	10	90 - 110
QC Batch ID: BXK1459		Used client sample: Y - Description: ROB-MW4d, 11/05/2014 14:31								
Ammonia as N	DUP	1426373-04	ND	ND		mg/L			10	
	MS	1426373-04	ND	1.1037	1.1111	mg/L		99.3		90 - 110
	MSD	1426373-04	ND	1.1546	1.1111	mg/L	4.5	104	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 01/27/2015 11:50
Project: Dairy Representative Monitoring Program
Project Number: Robert Gioletti & Sons Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 11/21/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Woods Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426265
Invoice ID: B189333

Enclosed are the results of analyses for samples received by the laboratory on 11/4/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426265

Samples were filtered through a 0.45 micron filter prior to analysis.



Laboratory Chain of Custody / 2014

DEL-TECH GEOTECHNICAL SUPPORT

645 N. YOSEMITE AVENUE. / OAKDALE, CA. 95361
(209) 847-8757 / (209) 847-7744 FAX / deltech1@pacbell.net 14-26265

BILLING TO:

PROJECT NAME: Woods Dairy Reduced Constituent Suite
PROJECT I.D. / GLOBAL I.D. #
Client: CVD RMP
Report Attention: Jill Invernizzi
Project Name: CVD RMP
Consultant: Subcontract (see below)
Sampled by: DEL-TECH
City, State, Zip
Lab Use Only
Sampling Info: Date Time
Sample Container / Preserv. QP Re. Unpreserved

Table with columns: S#, T, #C, Date, Time, Sample Description / Location, Sample Container / Preserv. Includes handwritten entries for samples W00-mw1, W00-mw2, W00-mw3, Field Duplicate.

QC Report Type: Level [] 2 [] 3 [] 4 Formal COC Required: []

Table with columns: Signature, Print Name, Company, Date, Time. Includes signatures of Ross Dickey and Jose Barcena.

SPECIAL INSTRUCTIONS / NOTES: 11-4-14 22RS

MONITORING WELL GROUNDWATER PROFILE
Total Dissolved Solids
Ammonia - N, NO3-N
X * Lab Filtered

CHK BY: DISTRIBUTION
SUB-OUT
SHORT HOLDING TIME
OF NO2 (NO3) OF SS
DO Cl2 BOD MPAS CCT

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-26265

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers
 Intact? Yes No Intact? Yes No None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 11-4-14 2015
 Temperature: (A) 0.6 °C (C) 0.2 °C Analyst Init JD

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: NO time on sample bottles
 Sample Numbering Completed By: KLB Date/Time: 11/5/14 1440 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426265-01	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 09:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	WOO-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426265-02	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 10:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	WOO-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426265-03	COC Number:	---	Receive Date:	11/04/2014 22:15
	Project Number:	---	Sampling Date:	11/04/2014 09:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	WOO-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426265-01	Client Sample Name: WOO-MW1, 11/4/2014 9:21:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	16	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	770	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 06:11	OLH	IC5	1	BXK0392
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	5	BXK0703
3	EPA-350.1	11/07/14	11/12/14 14:41	JP1	SC-1	1	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426265-02	Client Sample Name: WOO-MW2, 11/4/2014 10:22:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	20	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	590	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 08:30	OLH	IC5	2	BXK0392
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	5	BXK0703
3	EPA-350.1	11/07/14	11/12/14 14:43	JP1	SC-1	1	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426265-03	Client Sample Name: WOO-MW3, 11/4/2014 9:57:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	59	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	880	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/14	11/06/14 08:13	OLH	IC5	5	BXK0392
2	SM-2540C	11/10/14	11/10/14 08:00	CAD	MANUAL	5	BXK0703
3	EPA-350.1	11/07/14	11/12/14 14:45	JP1	SC-1	1	BXK0571

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0392						
Nitrate as N	BXK0392-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK0571						
Ammonia as N	BXK0571-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK0703						
Total Dissolved Solids @ 180 C	BXK0703-BLK1	ND	mg/L	6.7	6.7	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0392										
Nitrate as N	BXK0392-BS1	LCS	5.2740	5.0000	mg/L	105		90 - 110		
QC Batch ID: BXK0571										
Ammonia as N	BXK0571-BS1	LCS	1.0205	1.0000	mg/L	102		90 - 110		
QC Batch ID: BXK0703										
Total Dissolved Solids @ 180 C	BXK0703-BS1	LCS	590.00	586.00	mg/L	101		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0392		Used client sample: Y - Description: WOO-MW1, 11/04/2014 09:21								
Nitrate as N	DUP	426265-01RE'	15.888	15.874		mg/L	0.1		10	
	MS	426265-01RE'	15.888	26.329	10.101	mg/L		103		80 - 120
	MSD	426265-01RE'	15.888	26.257	10.101	mg/L	0.3	103	10	80 - 120
QC Batch ID: BXK0571		Used client sample: N								
Ammonia as N	DUP	1426257-02	0.039300	ND		mg/L			10	
	MS	1426257-02	0.039300	1.1506	1.1111	mg/L		100		90 - 110
	MSD	1426257-02	0.039300	1.1372	1.1111	mg/L	1.2	98.8	10	90 - 110
QC Batch ID: BXK0703		Used client sample: Y - Description: WOO-MW1, 11/04/2014 09:21								
Total Dissolved Solids @ 180 C	DUP	1426265-01	770.00	780.00		mg/L	1.3		10	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/21/2014 12:10
Project: Dairy Representative Monitoring Program
Project Number: Woods Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 11/25/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Antone L. Gomes & Sons Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426627
Invoice ID: B189541

Enclosed are the results of analyses for samples received by the laboratory on 11/7/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426627

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to:				Analysis Requested	
Reduced Constituent Suite					
Name:	Del-Tech	Project:	Dairy Representative Monitoring Program	From Filtered Sample:	Ammonia-N, NO3-N, Total Dissolved Solids
Address:	645 N Yosemite	Site:	Antone L. Gomes & Sons Dairy		
City:	Oakdale	Samplers Name:			
State:	CA	Global ID -			
Attn:	Don Light				
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt/Pc Unpreserved
-1	ANT-MW1d	11-7-14	9:42	GW	x
-2	ANT-MW2d		10:08		x
-3	ANT-MW3d		11:06		x
-4	ANT-MW4d		10:39		x
-5	ANT-MW5d		9:07		x
-6	ANT-MW6s, ANT-MW6d		11:32		x
-7	HS Field Duplicate		11/12		x
8					
9					
10					
11					
12					

SHORT HOLDING TIME
 Cr+6 (NO2) (NO3) OP SS
 DO Clp BDD MBAS COT

CHK BY: ANALYST DISTRIBUTION SUB-OUT

Relinquished by: (Signature)	SAH 11-9-14	16:35	Received By: <i>Kess Dickey</i>	11-14-1635
Relinquished by: (Signature)	<i>Kess Dickey</i>	11-7-14 18:45	Received By: <i>SAH</i>	11-7-14 18:45
Relinquished by: (Signature)	<i>SAH</i>		Received By: <i>SAH</i>	11-7-14 17:00

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lohrdorf and Scatnammi Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pdhalvial@lscce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 of 2

Submission #: 1426627

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers
 Intact? Yes No Intact? Yes No None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.98 Container: DE Thermometer ID: 207 Date/Time: 11/14/2000
 Temperature: (A) 1.2 °C (C) 0.8 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A	A	A	A	A	A	A			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time: 11/14/00 0010 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC]

Sample Numbering Completed By: M

A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426627-01	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 09:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW1d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426627-02	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 10:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW2d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426627-03	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 11:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW3d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426627-04	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 10:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426627-05	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 09:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW5d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426627-06	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 11:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ANT-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426627-07	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #5	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426627-01	Client Sample Name: ANT-MW1d, 11/7/2014 9:42:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	39	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/08/14 19:44	LD1	IC5	2	BXK0739
2	SM-2540C	11/13/14	11/13/14 10:00	CAD	MANUAL	5	BXK1139
3	EPA-350.1	11/19/14	11/19/14 13:49	JP1	SC-1	1	BXK1647

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426627-02	Client Sample Name: ANT-MW2d, 11/7/2014 10:08:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/08/14 19:59	LD1	IC5	5	BXK0739
2	SM-2540C	11/13/14	11/13/14 10:00	CAD	MANUAL	5	BXK1139
3	EPA-350.1	11/19/14	11/19/14 13:54	JP1	SC-1	1	BXK1647

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426627-03	Client Sample Name: ANT-MW3d, 11/7/2014 11:06:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	24	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/08/14 20:14	LD1	IC5	5	BXK0739
2	SM-2540C	11/13/14	11/13/14 10:00	CAD	MANUAL	5	BXK1139
3	EPA-350.1	11/19/14	11/19/14 13:54	JP1	SC-1	1	BXK1647

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426627-04	Client Sample Name: ANT-MW4d, 11/7/2014 10:39:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	13	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/08/14 20:29	LD1	IC5	5	BXK0739
2	SM-2540C	11/13/14	11/13/14 10:00	CAD	MANUAL	5	BXK1139
3	EPA-350.1	11/19/14	11/19/14 13:56	JP1	SC-1	1	BXK1647

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426627-05	Client Sample Name: ANT-MW5d, 11/7/2014 9:07:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	39	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/08/14 20:44	LD1	IC5	5	BXK0739
2	SM-2540C	11/13/14	11/13/14 10:00	CAD	MANUAL	10	BXK1139
3	EPA-350.1	11/19/14	11/19/14 14:05	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426627-06	Client Sample Name: ANT-MW6s, 11/7/2014 11:32:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	16	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1100	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/08/14 20:59	LD1	IC5	5	BXK0739
2	SM-2540C	11/13/14	11/13/14 10:00	CAD	MANUAL	5	BXK1139
3	EPA-350.1	11/19/14	11/19/14 14:09	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426627-07	Client Sample Name: Field Duplicate #5, 11/7/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/08/14	11/08/14 21:14	LD1	IC5	5	BXK0739
2	SM-2540C	11/13/14	11/13/14 10:00	CAD	MANUAL	5	BXK1139
3	EPA-350.1	11/19/14	11/19/14 14:10	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0739						
Nitrate as N	BXK0739-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1139						
Total Dissolved Solids @ 180 C	BXK1139-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1647						
Ammonia as N	BXK1647-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1648						
Ammonia as N	BXK1648-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0739										
Nitrate as N	BXK0739-BS1	LCS	4.9120	5.0000	mg/L	98.2		90 - 110		
QC Batch ID: BXK1139										
Total Dissolved Solids @ 180 C	BXK1139-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXK1647										
Ammonia as N	BXK1647-BS1	LCS	1.0106	1.0000	mg/L	101		90 - 110		
QC Batch ID: BXK1648										
Ammonia as N	BXK1648-BS1	LCS	0.99570	1.0000	mg/L	99.6		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK0739		Used client sample: Y - Description: ANT-MW1d, 11/07/2014 09:42								
Nitrate as N	DUP	426627-01RE'	40.665	40.595		mg/L	0.2		10	
	MS	426627-01RE'	40.665	68.253	25.253	mg/L		109	80 - 120	
	MSD	426627-01RE'	40.665	68.141	25.253	mg/L	0.2	109	10	80 - 120
QC Batch ID: BXK1139		Used client sample: Y - Description: ANT-MW1d, 11/07/2014 09:42								
Total Dissolved Solids @ 180 C	DUP	1426627-01	1275.0	1270.0		mg/L	0.4		10	
QC Batch ID: BXK1647		Used client sample: Y - Description: ANT-MW1d, 11/07/2014 09:42								
Ammonia as N	DUP	1426627-01	ND	ND		mg/L			10	
	MS	1426627-01	ND	1.1716	1.1111	mg/L		105	90 - 110	
	MSD	1426627-01	ND	1.1993	1.1111	mg/L	2.3	108	10	90 - 110
QC Batch ID: BXK1648		Used client sample: Y - Description: ANT-MW5d, 11/07/2014 09:07								
Ammonia as N	DUP	1426627-05	0.033300	0.035600		mg/L	6.7		10	J
	MS	1426627-05	0.033300	1.1802	1.1111	mg/L		103	90 - 110	
	MSD	1426627-05	0.033300	1.1732	1.1111	mg/L	0.6	103	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Antone L. Gomes & Sons Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Correia Family Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426864
Invoice ID: B189781

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426864

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 14-26864 Report to:		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Analysis Requested					
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: CA 95361 Attn: Don Light		Project: Dairy Representative Monitoring Program Site: Correia Family Dairy Samplers Name: <i>Amey Light Center</i> Global ID:		From Filtered Sample: Ammonia-N, NO ₃ -N, Total Dissolved Solids	
Reduced Constituent Suite		Matrix: <i>GW</i>		Ct/Pc Unpreserved	
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled		
-1	COR-MW1s, COR-MW1d	11-14	5:00	x	
-2	COR-MW2s, COR-MW2d		4:25	x	
-3	COR-MW3s, COR-MW3d		4:00	x	
-4	COR-MW4s, COR-MW4d		5:54	x	
-5	COR-MW5s, COR-MW5d		10:20	x	
-6	Field Duplicate <i>8</i>			x	
7					
8					
9					
10					
11					
Comments: 1) Where indicated, samples shall be filtered (0.45um) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lohdorff and Scalmanini Consulting Engineers via email: llavagnino@lscce.com, rbyson@lscce.com, pdhalwai@lscce.com 4) Send bill to Del-Tech, only.					
Relinquished by: (Signature) <i>[Signature]</i> Date & Time: 11-14 / 17:05		Relinquished by: (Signature) <i>[Signature]</i> Date & Time: 11-14 / 17:05		Received By: <i>[Signature]</i> Date & Time: 11-14 17:05	
Relinquished by: (Signature) <i>[Signature]</i> Date & Time: 11-14 / 17:05		Relinquished by: (Signature) <i>[Signature]</i> Date & Time: 11-14 / 17:05		Received By: <i>[Signature]</i> Date & Time: 11-14 2:55	
Relinquished by: (Signature) <i>[Signature]</i> Date & Time: 11-14 / 17:05		Relinquished by: (Signature) <i>[Signature]</i> Date & Time: 11-14 / 17:05		Received By: <i>[Signature]</i> Date & Time: 11-14 2:55	
(A)= Analysis (C)= Container (P)= Preservative		CHK BY: <i>[Signature]</i> DISTRIBUTION: <i>[Signature]</i> SUB-OUT: <input type="checkbox"/>			

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 2

Submission #: 14-26864

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.92 Container: PE Thermometer ID: 107 Date/Time: 11-11-14 2:55
 Temperature: (A) 0.5 °C (C) 0.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A	A	A	A	A				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-11-14 2:55 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426864-01	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 15:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426864-02	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 14:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426864-03	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 14:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426864-04	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 15:54
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426864-05	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 16:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	COR-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426864-06	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 16:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #8	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426864-01	Client Sample Name: COR-MW1s, 11/11/2014 3:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.0	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 13:22	OLH	IC2	2	BXK1214
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	10	BXK1361
3	EPA-350.1	11/20/14	11/20/14 13:32	JP1	SC-1	1	BXK1738

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426864-02	Client Sample Name: COR-MW2s, 11/11/2014 2:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	3.2	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	840	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 14:15	OLH	IC2	1	BXK1214
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	5	BXK1361
3	EPA-350.1	11/20/14	11/20/14 13:34	JP1	SC-1	1	BXK1738

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426864-03	Client Sample Name: COR-MW3s, 11/11/2014 2:06:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.6	mg/L	0.50	0.12	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	860	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 09:09	OLH	IC2	5	BXK1214
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	5	BXK1361
3	EPA-350.1	11/20/14	11/20/14 13:36	JP1	SC-1	1	BXK1738

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645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426864-04	Client Sample Name: COR-MW4s, 11/11/2014 3:54:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.4	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 14:50	OLH	IC2	2	BXK1214
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	5	BXK1361
3	EPA-350.1	11/20/14	11/20/14 13:37	JP1	SC-1	1	BXK1738

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426864-05	Client Sample Name: COR-MW5s, 11/11/2014 4:20:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.21	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	1.0	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/13/14 15:08	OLH	IC2	1	BXK1214
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	10	BXK1361
3	EPA-350.1	11/20/14	11/20/14 13:38	JP1	SC-1	1	BXK1738

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426864-06	Client Sample Name: Field Duplicate #8, 11/11/2014 4:20:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.6	mg/L	0.50	0.12	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	860	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/13/14 10:02	OLH	IC2	5	BXK1214
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	5	BXK1361
3	EPA-350.1	11/20/14	11/20/14 13:39	JP1	SC-1	1	BXK1738

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1214						
Nitrate as N	BXK1214-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1361						
Total Dissolved Solids @ 180 C	BXK1361-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1738						
Ammonia as N	BXK1738-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1214										
Nitrate as N	BXK1214-BS1	LCS	5.0520	5.0000	mg/L	101		90 - 110		
QC Batch ID: BXK1361										
Total Dissolved Solids @ 180 C	BXK1361-BS1	LCS	540.00	586.00	mg/L	92.2		90 - 110		
QC Batch ID: BXK1738										
Ammonia as N	BXK1738-BS1	LCS	1.0139	1.0000	mg/L	101		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXK1214		Used client sample: Y - Description: COR-MW1s, 11/11/2014 15:00								
Nitrate as N	DUP	1426864-01	1.0800	1.2800		mg/L	16.9		10	A02
	MS	1426864-01	1.0800	54.313	50.505	mg/L		105	80 - 120	
	MSD	1426864-01	1.0800	54.051	50.505	mg/L	0.5	105	10 80 - 120	
QC Batch ID: BXK1361		Used client sample: Y - Description: COR-MW1s, 11/11/2014 15:00								
Total Dissolved Solids @ 180 C	DUP	1426864-01	1550.0	1550.0		mg/L	0		10	
QC Batch ID: BXK1738		Used client sample: Y - Description: MAC-MW5s, 11/11/2014 11:31								
Ammonia as N	DUP	1426863-05	0.066600	0.076500		mg/L	13.8		10	J,A02
	MS	1426863-05	0.066600	1.1911	1.1111	mg/L		101	90 - 110	
	MSD	1426863-05	0.066600	1.1892	1.1111	mg/L	0.2	101	10 90 - 110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: Correia Family Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A10 PQL's and MDL's were raised due to matrix interference.



Date of Report: 12/04/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Frank J. Gomes Dairy #2
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427160
Invoice ID: B190106

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427160

Samples were filtered through a 0.45 micron filter prior to analysis.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-27160

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PG Thermometer ID: 2077 Date/Time: 11.13.14 2:50
 Temperature: (A) 0.5 °C / (C) 0.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A	A	A	A					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11.13.14 2:50 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC)

A = Actual / C = Corrected

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427160-01	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 16:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427160-02	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 15:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427160-03	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 16:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427160-04	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 17:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427160-05	COC Number:	---	Receive Date:	11/13/2014 21:50
	Project Number:	---	Sampling Date:	11/13/2014 14:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	FG2-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427160-01	Client Sample Name: FG2-MW1s, 11/13/2014 4:57:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	4.8	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	6000	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/15/14 03:53	OLH	IC1	1	BXK1330
2	SM-2540C	11/20/14	11/20/14 10:30	CAD	MANUAL	20	BXK1769
3	EPA-350.1	11/21/14	11/24/14 11:48	JP1	SC-1	1	BXK1934

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427160-02	Client Sample Name: FG2-MW2s, 11/13/2014 3:15:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	11	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.041	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 04:23	OLH	IC1	5	BXK1330
2	SM-2540C	11/20/14	11/20/14 10:30	CAD	MANUAL	10	BXK1769
3	EPA-350.1	11/21/14	11/24/14 11:53	JP1	SC-1	1	BXK1934

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427160-03	Client Sample Name: FG2-MW3s, 11/13/2014 4:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	10	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	4700	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	0.043	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/14/14	11/15/14 04:38	OLH	IC1	5	BXK1330
2	SM-2540C	11/20/14	11/20/14 10:30	CAD	MANUAL	20	BXK1769
3	EPA-350.1	11/21/14	11/24/14 11:53	JP1	SC-1	1	BXK1934

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427160-04	Client Sample Name: FG2-MW4s, 11/13/2014 5:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	18	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2900	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/15/14 04:53	OLH	IC1	5	BXK1330
2	SM-2540C	11/20/14	11/20/14 10:30	CAD	MANUAL	10	BXK1769
3	EPA-350.1	11/21/14	11/24/14 11:55	JP1	SC-1	1	BXK1934

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427160-05	Client Sample Name: FG2-MW5s, 11/13/2014 2:40:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	11	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.035	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/14/14	11/15/14 05:08	OLH	IC1	5	BXK1330
2	SM-2540C	11/20/14	11/20/14 10:30	CAD	MANUAL	10	BXK1769
3	EPA-350.1	11/21/14	11/24/14 11:55	JP1	SC-1	1	BXK1934

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1330						
Nitrate as N	BXK1330-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1769						
Total Dissolved Solids @ 180 C	BXK1769-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1934						
Ammonia as N	BXK1934-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1330										
Nitrate as N	BXK1330-BS1	LCS	5.1470	5.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1769										
Total Dissolved Solids @ 180 C	BXK1769-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: BXK1934										
Ammonia as N	BXK1934-BS1	LCS	0.99090	1.0000	mg/L	99.1		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1330		Used client sample: Y - Description: FG2-MW2s, 11/13/2014 15:15								
Nitrate as N	DUP	427160-02RE	10.855	10.790		mg/L	0.6		10	
	MS	427160-02RE	10.855	36.955	25.253	mg/L		103		80 - 120
	MSD	427160-02RE	10.855	36.742	25.253	mg/L	0.6	103	10	80 - 120
QC Batch ID: BXK1769		Used client sample: Y - Description: FG2-MW1s, 11/13/2014 16:57								
Total Dissolved Solids @ 180 C	DUP	1427160-01	6040.0	6060.0		mg/L	0.3		10	
QC Batch ID: BXK1934		Used client sample: Y - Description: FG2-MW1s, 11/13/2014 16:57								
Ammonia as N	DUP	1427160-01	ND	0.035200		mg/L			10	J
	MS	1427160-01	ND	1.2150	1.1111	mg/L		109		90 - 110
	MSD	1427160-01	ND	1.2173	1.1111	mg/L	0.2	110	10	90 - 110

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/04/2014 8:52
Project: Dairy Representative Monitoring Program
Project Number: Frank J. Gomes Dairy #2
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 11/26/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Godinho Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426738
Invoice ID: B189692

Enclosed are the results of analyses for samples received by the laboratory on 11/10/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426738

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to: Reduced Constituent Suite Project: Dairy Representative Monitoring Program Site: Godinho Dairy Samplers Name: Ashley Light / DeTien Global ID:			
Name: Del-Tech Address: 845 N Yosemite City: Oakdale State: CA Attn: Don Light		Analysis Requested From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids	
Lab # - 1 - 2 - 3 - 4 - 5 - 6 - 7 8 9 10 11 12	Strike out non-sampled wells GOD-MW1s, GOD-MW2s GOD-MW2s, GOD-MW3s GOD-MW3s, GOD-MW4s GOD-MW4s, GOD-MW5s GOD-MW5s, GOD-MW6s GOD-MW6s, GOD-MW7s Field Duplicate	Date Sampled 11/20/14 11/20/14 11/20/14 11/20/14 11/20/14 11/20/14	Time Sampled 3:14 5:11 14:25 15:22 15:59 16:29 17:07
		Matrix GW	Ct/Pc Unpreserved x x x x x x x
		SHORT HOLDING TIME Cr+6 NO ₂ NO ₃ OP I SS DO Cl ₂ BOD MBAS COT	
		CHK BY: <input checked="" type="checkbox"/> DISTRIBUTION <input type="checkbox"/> SUBMIT	
Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature)		Received by: <input checked="" type="checkbox"/> Received by: <input checked="" type="checkbox"/> Received by: <input checked="" type="checkbox"/>	
Comments 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Luhdorff and Scalmani Consulting Engineers via email: llavagnino@lsc.com, rbryson@lsc.com, pdhalliwal@lsc.com 4) Send bill to Del-Tech, only.		Date & Time 11-10-14 18:07 11/10/14 21:30 11/10/14 21:30	
(A)= Analysis (C)= Container (P)= Preservative			

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LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 1426738

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 C Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

1 samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 107 Date/Time: 11-10-14 2130
 Temperature: (A) 0.9 °C (C) 0.5 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
GENERAL MINERAL/GENERAL	A	A	A	A	A	A	A			
PE UNPRESERVED										
INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS										
CYANIDE										
NITROGEN FORMS										
TOTAL SULFIDE										
NITRATE / NITRITE										
TOTAL ORGANIC CARBON										
TOX										
CHEMICAL OXYGEN DEMAND										
PHENOLICS										
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL										
EPA 413.1, 413.2, 418.1										
ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
oz Amber EPA 548										
EPA 549										
EPA 632										
EPA 8015M										
AMBER										
OZ. JAR										
2 OZ. JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
FEROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-10-14 2140 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
 = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426738-01	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 13:14
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426738-02	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 15:11
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426738-03	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 14:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426738-04	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 13:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426738-05	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 17:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426738-06	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 16:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1426738-07	COC Number:	---	Receive Date:	11/10/2014 21:30
	Project Number:	---	Sampling Date:	11/10/2014 17:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	GOD-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426738-01	Client Sample Name: GOD-MW1s, 11/10/2014 1:14:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.1	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/11/14 21:55	BMW	IC5	1	BXK1028
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	10	BXK1254
3	EPA-350.1	11/19/14	11/19/14 14:30	JP1	SC-1	1	BXK1649

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426738-02	Client Sample Name: GOD-MW2s, 11/10/2014 3:11:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	19	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2100	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.040	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/11/14 23:56	BMW	IC5	2	BXK1028
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	10	BXK1254
3	EPA-350.1	11/19/14	11/19/14 14:32	JP1	SC-1	1	BXK1649

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426738-03	Client Sample Name: GOD-MW3s, 11/10/2014 2:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	15	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	820	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/12/14 00:14	OLH	IC5	1	BXK1028
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	5	BXK1254
3	EPA-350.1	11/19/14	11/19/14 14:34	JP1	SC-1	1	BXK1649

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426738-04	Client Sample Name: GOD-MW4s, 11/10/2014 1:52:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	21	mg/L	0.20	0.036	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2200	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/12/14 00:31	OLH	IC5	2	BXK1028
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	10	BXK1254
3	EPA-350.1	11/19/14	11/19/14 14:35	JP1	SC-1	1	BXK1649

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426738-05	Client Sample Name: GOD-MW5s, 11/10/2014 5:59:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	5.4	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1200	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	0.038	mg/L	0.10	0.033	EPA-350.1	0.035	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/12/14 00:49	OLH	IC5	1	BXK1028
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	5	BXK1254
3	EPA-350.1	11/19/14	11/19/14 14:38	JP1	SC-1	1	BXK1650

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426738-06	Client Sample Name: GOD-MW6s, 11/10/2014 4:28:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	15	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	2700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.035	mg/L	0.10	0.033	EPA-350.1	0.035	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/11/14	11/12/14 01:06	OLH	IC5	1	BXK1028
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	10	BXK1254
3	EPA-350.1	11/19/14	11/19/14 14:41	JP1	SC-1	1	BXK1650

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426738-07	Client Sample Name: GOD-MW7s, 11/10/2014 5:07:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.10	mg/L	0.10	0.018	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	2100	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.047	mg/L	0.10	0.033	EPA-350.1	0.035	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/11/14	11/12/14 01:23	OLH	IC5	1	BXK1028
2	SM-2540C	11/14/14	11/14/14 12:30	CAD	MANUAL	10	BXK1254
3	EPA-350.1	11/19/14	11/19/14 14:43	JP1	SC-1	1	BXK1650

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1028						
Nitrate as N	BXK1028-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK1254						
Total Dissolved Solids @ 180 C	BXK1254-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1649						
Ammonia as N	BXK1649-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1650						
Ammonia as N	BXK1650-BLK1	0.034800	mg/L	0.10	0.033	J

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1028										
Nitrate as N	BXK1028-BS1	LCS	5.2860	5.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1254										
Total Dissolved Solids @ 180 C	BXK1254-BS1	LCS	600.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BXK1649										
Ammonia as N	BXK1649-BS1	LCS	1.0270	1.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1650										
Ammonia as N	BXK1650-BS1	LCS	1.0888	1.0000	mg/L	109		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: BXK1028		Used client sample: Y - Description: GOD-MW1s, 11/10/2014 13:14									
Nitrate as N	DUP	426738-01RE'	1.1300	1.1300		mg/L	0		10		
	MS	426738-01RE'	1.1300	11.737	10.101	mg/L		105		80 - 120	
	MSD	426738-01RE'	1.1300	11.784	10.101	mg/L	0.4	105	10	80 - 120	
QC Batch ID: BXK1254		Used client sample: Y - Description: GOD-MW1s, 11/10/2014 13:14									
Total Dissolved Solids @ 180 C	DUP	1426738-01	1860.0	1820.0		mg/L	2.2		10		
QC Batch ID: BXK1649		Used client sample: N									
Ammonia as N	DUP	1426732-02	0.11930	0.11300		mg/L	5.4		10		
	MS	1426732-02	0.11930	1.2541	1.1111	mg/L		102		90 - 110	
	MSD	1426732-02	0.11930	1.2184	1.1111	mg/L	2.9	98.9	10	90 - 110	
QC Batch ID: BXK1650		Used client sample: Y - Description: GOD-MW5s, 11/10/2014 17:59									
Ammonia as N	DUP	1426738-05	0.038000	0.038800		mg/L	2.1		10		J
	MS	1426738-05	0.038000	1.1011	1.1111	mg/L		95.7		90 - 110	
	MSD	1426738-05	0.038000	1.1593	1.1111	mg/L	5.2	101	10	90 - 110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/26/2014 14:47
Project: Dairy Representative Monitoring Program
Project Number: Godinho Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: John Machado Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426863
Invoice ID: B189780

Enclosed are the results of analyses for samples received by the laboratory on 11/11/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426863

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Report to: A. Uelges			
Reduced Constituent Suite			
Name: Del-Tech		Analysis Requested	
Address: 645 N Yosemite		From Filtered Sample:	
City: Oakdale		Ammonia-N, NO3-N, Total Dissolved Solids	
State: 95361		Project: Dairy Representative Monitoring Program	
Atrn: Don Light		Site: John Machado Dairy	
Samplers Name: Don Light / Del-Tech		Matrix: GW	
Global ID:		Date Sampled: 11-11-14	
Time Sampled: 10:41		Date Sampled: 11-11-14	
Time Sampled: 19:00		Date Sampled: 11-11-14	
Time Sampled: 13:17		Date Sampled: 11-11-14	
Time Sampled: 12:22		Date Sampled: 11-11-14	
Time Sampled: 11:51		Date Sampled: 11-11-14	
Lab #	Strike out non-sampled wells	Time Sampled	Matrix
- 1	MAC-MW1s, MAC-MW1d	10:41	GW
- 2	MAC-MW2s, MAC-MW2d	19:00	
- 3	MAC-MW3s, MAC-MW3d	13:17	
- 4	MAC-MW4s, MAC-MW4d	12:22	
- 5	MAC-MW5s, MAC-MW5d	11:51	
6	Field Duplicates		
7			
8			
9			
10			
11			
12			
Comments:		Relinquished by: (Signature) [Signature]	
1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.		Relinquished by: (Signature) [Signature]	
2) Lab reports shall identify sampled wells exactly as shown on this CoC.		Relinquished by: (Signature) [Signature]	
3) Send lab reports to Lohdorff and Scalman Consulting Engineers via email: llavagnino@lscce.com, rbryson@lscce.com, pthallwal@lscce.com		Relinquished by: (Signature) [Signature]	
4) Send bill to Del-Tech, only.		Relinquished by: (Signature) [Signature]	
(A)= Analysis (C)= Container (P)= Preservative		Received By: [Signature] Date & Time: 11-11-14 17:05	
Received By: [Signature] Date & Time: 11-11-14 2:05		Received By: [Signature] Date & Time: 11-11-14 2:05	

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 2

Submission #: 1426863

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.92 Container: PE Thermometer ID: 107 Date/Time: 11-14-2015
 Temperature: (A) 0.5 °C (C) 0.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
<input type="checkbox"/> GENERAL MINERAL/ GENERAL	A	A	A	A	A					
<input type="checkbox"/> PE UNPRESERVED										
<input type="checkbox"/> INORGANIC CHEMICAL METALS										
<input type="checkbox"/> INORGANIC CHEMICAL METALS										
<input type="checkbox"/> CYANIDE										
<input type="checkbox"/> NITROGEN FORMS										
<input type="checkbox"/> TOTAL SULFIDE										
oz. NITRATE / NITRITE										
<input type="checkbox"/> TOTAL ORGANIC CARBON										
<input type="checkbox"/> TOX										
<input type="checkbox"/> CHEMICAL OXYGEN DEMAND										
<input type="checkbox"/> PHENOLICS										
10ml VOA VIAL TRAVEL BLANK										
10ml VOA VIAL										
<input type="checkbox"/> EPA 413.1, 413.2, 418.1										
<input type="checkbox"/> ODOR										
<input type="checkbox"/> RADIOLOGICAL										
<input type="checkbox"/> BACTERIOLOGICAL										
10 ml VOA VIAL- 504										
<input type="checkbox"/> EPA 508/608/8080										
<input type="checkbox"/> EPA 515.1/8150										
<input type="checkbox"/> EPA 525										
<input type="checkbox"/> EPA 525 TRAVEL BLANK										
10ml EPA 547										
10ml EPA 531.1										
oz Amber EPA 548										
<input type="checkbox"/> EPA 549										
<input type="checkbox"/> EPA 632										
<input type="checkbox"/> EPA 8015M										
<input type="checkbox"/> AMBER										
<input type="checkbox"/> OZ. JAR										
<input type="checkbox"/> 2 OZ. JAR										
<input type="checkbox"/> SOIL SLEEVE										
<input type="checkbox"/> PCB VIAL										
<input type="checkbox"/> PLASTIC BAG										
<input type="checkbox"/> FERROUS IRON										
<input type="checkbox"/> ENCORE										
<input type="checkbox"/> SMART KIT										
<input type="checkbox"/> Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 11-14-2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426863-01	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 10:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426863-02	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426863-03	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 13:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426863-04	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 12:23
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				
1426863-05	COC Number:	---	Receive Date:	11/11/2014 21:55
	Project Number:	---	Sampling Date:	11/11/2014 11:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MAC-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time				

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426863-01	Client Sample Name: MAC-MW1s, 11/11/2014 10:41:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	16	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/13/14 10:37	OLH	IC2	2	BXK1213
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	10	BXK1360
3	EPA-350.1	11/20/14	11/20/14 13:21	JP1	SC-1	1	BXK1737

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426863-02	Client Sample Name: MAC-MW2s, 11/11/2014 10:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	19	mg/L	1.0	0.25	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/13/14 05:20	OLH	IC2	10	BXK1213
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	10	BXK1360
3	EPA-350.1	11/20/14	11/20/14 13:23	JP1	SC-1	1	BXK1737

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426863-03	Client Sample Name: MAC-MW3s, 11/11/2014 1:17:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	130	mg/L	2.0	0.50	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	7200	mg/L	500	500	SM-2540C	ND		2
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 05:37	OLH	IC2	20	BXK1213
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	50	BXK1360
3	EPA-350.1	11/20/14	11/20/14 13:25	JP1	SC-1	1	BXK1737

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426863-04	Client Sample Name: MAC-MW4s, 11/11/2014 12:23:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	13	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2800	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.31	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/12/14	11/13/14 11:12	OLH	IC2	2	BXK1213
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	10	BXK1360
3	EPA-350.1	11/20/14	11/20/14 13:26	JP1	SC-1	1	BXK1737

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426863-05	Client Sample Name: MAC-MW5s, 11/11/2014 11:31:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	3000	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	0.067	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/14	11/13/14 10:55	OLH	IC2	5	BXK1213
2	SM-2540C	11/17/14	11/17/14 09:00	CAD	MANUAL	20	BXK1360
3	EPA-350.1	11/20/14	11/20/14 13:29	JP1	SC-1	1	BXK1738

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1213						
Nitrate as N	BXK1213-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1360						
Total Dissolved Solids @ 180 C	BXK1360-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1737						
Ammonia as N	BXK1737-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1738						
Ammonia as N	BXK1738-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1213										
Nitrate as N	BXK1213-BS1	LCS	5.0130	5.0000	mg/L	100		90 - 110		
QC Batch ID: BXK1360										
Total Dissolved Solids @ 180 C	BXK1360-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXK1737										
Ammonia as N	BXK1737-BS1	LCS	1.0272	1.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1738										
Ammonia as N	BXK1738-BS1	LCS	1.0139	1.0000	mg/L	101		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: BXK1213		Used client sample: Y - Description: MAC-MW1s, 11/11/2014 10:41									
Nitrate as N	DUP	1426863-01	15.120	15.280		mg/L	1.1		10		
	MS	1426863-01	15.120	73.030	50.505	mg/L		115		80 - 120	
	MSD	1426863-01	15.120	71.222	50.505	mg/L	2.5	111	10	80 - 120	
QC Batch ID: BXK1360		Used client sample: Y - Description: MAC-MW1s, 11/11/2014 10:41									
Total Dissolved Solids @ 180 C	DUP	1426863-01	1610.0	1610.0		mg/L	0		10		
QC Batch ID: BXK1737		Used client sample: N									
Ammonia as N	DUP	1426777-01	ND	ND		mg/L			10		
	MS	1426777-01	ND	1.0879	1.1111	mg/L		97.9		90 - 110	
	MSD	1426777-01	ND	1.1173	1.1111	mg/L	2.7	101	10	90 - 110	
QC Batch ID: BXK1738		Used client sample: Y - Description: MAC-MW5s, 11/11/2014 11:31									
Ammonia as N	DUP	1426863-05	0.066600	0.076500		mg/L	13.8		10		J,A02
	MS	1426863-05	0.066600	1.1911	1.1111	mg/L		101		90 - 110	
	MSD	1426863-05	0.066600	1.1892	1.1111	mg/L	0.2	101	10	90 - 110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 12:30
Project: Dairy Representative Monitoring Program
Project Number: John Machado Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 11/24/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Jose Nunes Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426628
Invoice ID: B189433

Enclosed are the results of analyses for samples received by the laboratory on 11/7/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426628

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc.		Chain of Custody				
4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Analysis Requested				
Report to: <u>14-26628</u>						
Reduced Constituent Suite						
Project: Dairy Representative Monitoring Program						
Site: Jose Nunes Dairy						
Samplers Name: <u>DON LIGHT / DEETEC</u>						
Global ID -						
From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids						
Name: Del-Tech	Address: 645 N Yosemite	City: Oakdale	State: 95361			
City: Don Light	State: CA	Attn: Don Light	Global ID -			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Q1 P's Unpreserved	Analysis Requested
-1	NUN-MW1s, NUN-MW2s	11/07/14	1544	G.W.I	x	
-2	NUN-MW2s, NUN-MW3s	11/07/14	1150		x	
-3	NUN-MW3s, NUN-MW4s	11/07/14	1620		x	
-4	NUN-MW4s, NUN-MW5s	11/07/14	1750		x	
-5	NUN-MW5s, NUN-MW6s	11/07/14	1430		x	
-6	Field Duplicate #3	11/07/14		DL	x	
7						
8						
9						
10						
11						
12						
Comments: 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity. 2) Lab reports shall identify sampled wells exactly as shown on this CoC. 3) Send lab reports to Lohdorff and Scalmani Consulting Engineers via email: llavagnino@lsce.com, rtrayson@lsce.com, pdhalliwal@lsce.com 4) Send bill to Del-Tech, only.						Analysis Requested
Relinquished by: (Signature) <u>[Signature]</u> Date & Time <u>11/07/14 1745</u>						Received By: <u>[Signature]</u> Date & Time <u>11-7-14 17:45</u>
Relinquished by: (Signature) <u>[Signature]</u> Date & Time <u>11-7-14 1845</u>						Received By: <u>[Signature]</u> Date & Time <u>11-7-14 18:45</u>
Relinquished by: (Signature) <u>[Signature]</u> Date & Time <u>11-7-14 2200</u>						Received By: <u>[Signature]</u> Date & Time <u>11-7-14 2200</u>
(A)= Analysis (C)= Container (P)= Preservative						

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 14-24628

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.98. Container: PE. Thermometer ID: 207. Date/Time: 11-7-14 2200. Analyst Init: M.

SAMPLE NUMBERS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Table with columns for sample numbers (1-10) and rows for various sample types: QT GENERAL MINERAL/GENERAL, PT PE UNPRESERVED, QT INORGANIC CHEMICAL METALS, PT INORGANIC CHEMICAL METALS, PT CYANIDE, PT NITROGEN FORMS, PT TOTAL SULFIDE, 2oz. NITRATE /NITRITE, PT TOTAL ORGANIC CARBON, PT TOX, PT CHEMICAL OXYGEN DEMAND, PIA PHENOLICS, 40ml VOA VIAL TRAVEL BLANK, 40ml VOA VIAL, QT EPA 413.1, 413.2, 418.1, PT ODOR, RADIOLOGICAL, BACTERIOLOGICAL, 40 ml VOA VIAL- 504, QT EPA 508/608/8080, QT EPA 515.1/8150, QT EPA 525, QT EPA 525 TRAVEL BLANK, 40ml EPA 547, 40ml EPA 531.1, 8oz Amber EPA 548, QT EPA 549, QT EPA 632, QT EPA 8015M, QT AMBER, 8 OZ. JAR, 32 OZ. JAR, SOIL SLEEVE, PCB VIAL, PLASTIC BAG, FERROUS IRON, ENCORE, SMART KIT, Summa Canister.

Comments: Sample Numbering Completed By: M Date/Time: 11-8-14 0011 IS:WPDocWordPerfect\LAB_DOCS\FORMS\SAMREC A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426628-01	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 15:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	NUN-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426628-02	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	NUN-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426628-03	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 16:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	NUN-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426628-04	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 17:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	NUN-MW4s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426628-05	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 14:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	NUN-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426628-06	COC Number:	---	Receive Date:	11/07/2014 22:00
	Project Number:	---	Sampling Date:	11/07/2014 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Field Duplicate #3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426628-01	Client Sample Name: NUN-MW1s, 11/7/2014 3:44:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.0	mg/L	0.50	0.12	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	4900	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/08/14 21:14	LD1	IC1	5	BXK0732
2	SM-2540C	11/14/14	11/14/14 10:30	CAD	MANUAL	20	BXK1251
3	EPA-350.1	11/19/14	11/19/14 14:12	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426628-02	Client Sample Name: NUN-MW2s, 11/7/2014 11:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.9	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2600	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/08/14 21:29	LD1	IC1	2	BXK0732
2	SM-2540C	11/14/14	11/14/14 10:30	CAD	MANUAL	10	BXK1251
3	EPA-350.1	11/19/14	11/19/14 14:14	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426628-03	Client Sample Name: NUN-MW3s, 11/7/2014 4:20:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	5.0	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	4600	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/08/14 21:44	LD1	IC1	5	BXK0732
2	SM-2540C	11/14/14	11/14/14 10:30	CAD	MANUAL	20	BXK1251
3	EPA-350.1	11/19/14	11/19/14 14:14	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426628-04	Client Sample Name: NUN-MW4s, 11/7/2014 5:00:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.84	mg/L	0.50	0.12	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	ND	mg/L	500	500	SM-2540C	ND		2
Ammonia as N	0.073	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/08/14 21:59	LD1	IC1	5	BXK0732
2	SM-2540C	11/14/14	11/14/14 10:30	CAD	MANUAL	50	BXK1251
3	EPA-350.1	11/19/14	11/19/14 14:16	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426628-05	Client Sample Name: NUN-MW5s, 11/7/2014 2:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.50	0.12	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	6900	mg/L	500	500	SM-2540C	ND		2
Ammonia as N	0.040	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/08/14	11/08/14 22:14	LD1	IC1	5	BXK0732
2	SM-2540C	11/14/14	11/14/14 10:30	CAD	MANUAL	50	BXK1251
3	EPA-350.1	11/19/14	11/19/14 14:16	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426628-06	Client Sample Name: Field Duplicate #3, 11/7/2014 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	1.0	0.25	EPA-300.0	ND	A10,S05	1
Total Dissolved Solids @ 180 C	7100	mg/L	500	500	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/10/14	11/11/14 03:30	OLH	IC2	10	BXK0923
2	SM-2540C	11/14/14	11/14/14 10:30	CAD	MANUAL	50	BXK1251
3	EPA-350.1	11/19/14	11/19/14 14:17	JP1	SC-1	1	BXK1648

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0732						
Nitrate as N	BXK0732-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK0923						
Nitrate as N	BXK0923-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1251						
Total Dissolved Solids @ 180 C	BXK1251-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1648						
Ammonia as N	BXK1648-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0732										
Nitrate as N	BXK0732-BS1	LCS	5.2620	5.0000	mg/L	105		90 - 110		
QC Batch ID: BXK0923										
Nitrate as N	BXK0923-BS1	LCS	5.1850	5.0000	mg/L	104		90 - 110		
QC Batch ID: BXK1251										
Total Dissolved Solids @ 180 C	BXK1251-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXK1648										
Ammonia as N	BXK1648-BS1	LCS	0.99570	1.0000	mg/L	99.6		90 - 110		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK0732		Used client sample: Y - Description: NUN-MW1s, 11/07/2014 15:44								
Nitrate as N	DUP	I426628-01RE1	1.2900	1.0800		mg/L	17.7		10	A02
	MS	I426628-01RE1	1.2900	56.384	50.505	mg/L		109	80 - 120	
	MSD	I426628-01RE1	1.2900	56.636	50.505	mg/L	0.4	110	10 80 - 120	
QC Batch ID: BXK0923		Used client sample: N								
Nitrate as N	DUP	1426638-01	1.5700	1.5540		mg/L	1.0		10	
	MS	1426638-01	1.5700	7.1747	5.0505	mg/L		111	80 - 120	
	MSD	1426638-01	1.5700	7.1515	5.0505	mg/L	0.3	111	10 80 - 120	
QC Batch ID: BXK1251		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1426629-11	378.00	386.00		mg/L	2.1		10	
QC Batch ID: BXK1648		Used client sample: Y - Description: ANT-MW5d, 11/07/2014 09:07								
Ammonia as N	DUP	1426627-05	0.033300	0.035600		mg/L	6.7		10	J
	MS	1426627-05	0.033300	1.1802	1.1111	mg/L		103	90 - 110	
	MSD	1426627-05	0.033300	1.1732	1.1111	mg/L	0.6	103	10 90 - 110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/24/2014 13:44
Project: Dairy Representative Monitoring Program
Project Number: Jose Nunes Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A10 PQL's and MDL's were raised due to matrix interference.
- S05 The sample holding time was exceeded.



Date of Report: 11/25/2014

Don Light

Del-Tech

645 North Yosemite Ave.
Oakdale, CA 95361

Client Project: Moonshine Dairy
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1426547
Invoice ID: B189539

Enclosed are the results of analyses for samples received by the laboratory on 11/6/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1426547

Samples were filtered through a 0.45 micron filter prior to analysis.



14-26547

Report to:				Analysis Requested			
BC Laboratories, Inc. 4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911				Chain of Custody			
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 Attn: Don Light				From Filtered Sample: Ammonia-N, NO3-N Total Dissolved Solids			
Project: Dairy Representative Monitoring Program Site: Moonshine Dairy Samplers Name: Del-Tech / Stealy Young Global ID -				CHK BY: [Signature] DISTRIBUTION: [Signature] SUB-OUT: [Signature]			
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt Fe Unpreserved	SHORT RESIDING TIME	
1	M00-MW1	11-6-14	14:46	GW	x	Cl ⁻	NO ₂
2	M00-MW2		15:09		x	BOD	MBAS
3	M00-MW3		16:02		x	OP	SS
4	M00-MW4		16:43		x	COT	
5	M00-MW5s, M00-MW6d		15:33		x		
6	M00-MW6s, M00-MW7d		14:22		x		
7	M00-MW7s, M00-MW8d		14:00		x		
8	M00-MW8s, M00-MW9d		13:42		x		
9	NA Field Duplicate				x		
10							
11							
12							

Relinquished by: (Signature)	11-6-14	1715	Received By: [Signature]	11-6-14 18:30
Relinquished by: (Signature)	[Signature]	1830	Received By: [Signature]	11-6-14 2135

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lohdorff and Scalmanmi Consulting Engineers via email: llavagnino@lsce.com, rhyson@lsce.com, pdhalwai@lsce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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Rev. No. 18 09/04/14 Page

COOLER RECEIPT FORM

LABORATORIES INC.

Submission #: 14-26547

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

custody Seals: Ice Chest Containers
 Intact? Yes No Intact? Yes No None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time: 11/7/14
 Temperature: (A) 0.5 °C (1(C)) 0.1 °C Analyst Init: 2BS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
GENERAL MINERAL/GENERAL	A	A	A	A	A	A	A	A		
PE UNPRESERVED										
INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS										
CYANIDE										
NITROGEN FORMS										
TOTAL SULFIDE										
oz. NITRATE/NITRITE										
TOTAL ORGANIC CARBON										
TOX										
CHEMICAL OXYGEN DEMAND										
PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 413.1										
ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time: 11/7/14 09:00 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)

Sample Numbering Completed By:



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426547-01	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 14:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426547-02	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 15:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426547-03	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 16:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426547-04	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 16:43
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1426547-05	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 15:33
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1426547-06	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 14:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW6s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1426547-07	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 14:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW7s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
1426547-08	COC Number:	---	Receive Date:	11/06/2014 21:35
	Project Number:	---	Sampling Date:	11/06/2014 13:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MOO-MW8s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
				Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-01	Client Sample Name: MOO-MW1, 11/6/2014 2:46:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.6	mg/L	0.50	0.090	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.24	mg/L	0.10	0.033	EPA-350.1	0.037		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 14:46	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14 11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14 11:38	JP1	SC-1	1	BXK1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-02	Client Sample Name: MOO-MW2, 11/6/2014 3:09:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	27	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2100	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.044	mg/L	0.10	0.033	EPA-350.1	0.037	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 15:01	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14 11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14 11:40	JP1	SC-1	1	BXK1459

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-03	Client Sample Name: MOO-MW3, 11/6/2014 4:02:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	9.8	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.036	mg/L	0.10	0.033	EPA-350.1	0.037	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 15:31	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14 11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14 11:41	JP1	SC-1	1	BXK1459

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Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-04	Client Sample Name: MOO-MW4, 11/6/2014 4:43:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1700	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.042	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 15:46	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14 11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14 11:44	JP1	SC-1	1	BXK1460

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Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-05	Client Sample Name: MOO-MW5s, 11/6/2014 3:33:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	17	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1500	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-300.0	11/07/14	11/08/14	15:16	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14	11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14	11:47	JP1	SC-1	1	BXK1460

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Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-06	Client Sample Name: MOO-MW6s, 11/6/2014 2:22:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	1.7	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1400	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.10	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/07/14	11/08/14 14:31	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14 11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14 11:49	JP1	SC-1	1	BXK1460

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645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-07	Client Sample Name: MOO-MW7s, 11/6/2014 2:00:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	33	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/07/14	11/08/14 14:17	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14 11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14 11:51	JP1	SC-1	1	BXK1460

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1426547-08	Client Sample Name: MOO-MW8s, 11/6/2014 1:42:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	41	mg/L	0.50	0.090	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2000	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-300.0	11/07/14	11/08/14	14:02	LD1	IC5	5	BXK0672
2	SM-2540C	11/12/14	11/12/14	11:30	CAD	MANUAL	10	BXK0967
3	EPA-350.1	11/18/14	11/18/14	11:52	JP1	SC-1	1	BXK1460

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0672						
Nitrate as N	BXK0672-BLK1	ND	mg/L	0.10	0.018	
QC Batch ID: BXK0967						
Total Dissolved Solids @ 180 C	BXK0967-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1459						
Ammonia as N	BXK1459-BLK1	0.036900	mg/L	0.10	0.033	J
QC Batch ID: BXK1460						
Ammonia as N	BXK1460-BLK1	ND	mg/L	0.10	0.033	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK0672										
Nitrate as N	BXK0672-BS1	LCS	4.8810	5.0000	mg/L	97.6		90 - 110		
QC Batch ID: BXK0967										
Total Dissolved Solids @ 180 C	BXK0967-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXK1459										
Ammonia as N	BXK1459-BS1	LCS	1.0264	1.0000	mg/L	103		90 - 110		
QC Batch ID: BXK1460										
Ammonia as N	BXK1460-BS1	LCS	1.0517	1.0000	mg/L	105		90 - 110		

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: BXK0672		Used client sample: Y - Description: MOO-MW1, 11/06/2014 14:46									
Nitrate as N	DUP	426547-01RE'	1.7540	1.7300		mg/L	1.4		10		
	MS	426547-01RE'	1.7540	12.663	10.101	mg/L		108		80 - 120	
	MSD	426547-01RE'	1.7540	12.628	10.101	mg/L	0.3	108	10	80 - 120	
QC Batch ID: BXK0967		Used client sample: Y - Description: MOO-MW1, 11/06/2014 14:46									
Total Dissolved Solids @ 180 C	DUP	1426547-01	1670.0	1720.0		mg/L	2.9		10		
QC Batch ID: BXK1459		Used client sample: Y - Description: ROB-MW4d, 11/05/2014 14:31									
Ammonia as N	DUP	1426373-04	ND	ND		mg/L			10		
	MS	1426373-04	ND	1.1037	1.1111	mg/L		99.3		90 - 110	
	MSD	1426373-04	ND	1.1546	1.1111	mg/L	4.5	104	10	90 - 110	
QC Batch ID: BXK1460		Used client sample: Y - Description: MOO-MW4, 11/06/2014 16:43									
Ammonia as N	DUP	1426547-04	0.041600	0.040800		mg/L	1.9		10		J
	MS	1426547-04	0.041600	1.1483	1.1111	mg/L		99.6		90 - 110	
	MSD	1426547-04	0.041600	1.0992	1.1111	mg/L	4.4	95.2	10	90 - 110	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 11/25/2014 11:15
Project: Dairy Representative Monitoring Program
Project Number: Moonshine Dairy
Project Manager: Don Light

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A10 PQL's and MDL's were raised due to matrix interference.



Date of Report: 12/01/2014

Don Light

Del-Tech

645 North Yosemite Ave.

Oakdale, CA 95361

Client Project: Tony L. Lopes Dairy LP
BCL Project: Dairy Representative Monitoring Program
BCL Work Order: 1427018
Invoice ID: B189791

Enclosed are the results of analyses for samples received by the laboratory on 11/12/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Case Narratives

Case Narrative for Work Order 1427018

Samples were filtered through a 0.45 micron filter prior to analysis.



BC Laboratories, Inc. 14-27018 Report to:		4100 Atlas Ct. Bakersfield, CA 93308 (661) 327-4911		Chain of Custody	
Analysis Requested					
Name: Del-Tech Address: 645 N Yosemite City: Oakdale State: 95361 CA Attn: Don Light					
Project: Dairy Representative Monitoring Program Site: Tony L. Lopes Dairy LP Samplers Name: <i>Penley Light/Del-Tech</i> Global ID -					
From Filtered Sample: Ammonia-N, NO3-N, Total Dissolved Solids					
Lab #	Strike out non-sampled wells	Date Sampled	Time Sampled	Matrix	Qt/Pc Unpreserved
1	TON-MW1s, TON-MW4d	11-2-14	12:33	GW	x
2	TON-MW2s, TON-MW2d	12-19	12:19		x
3	TON-MW3s, TON-MW3d	13-5	13:5		x
4	TON-MW4s, TON-MW4d	14-8	14:8		x
5	TON-MW5s, TON-MW5d	12-23	12:23		x
6	TON-MW6s, TON-MW6d	11-4	11:4		x
7	TON-MW7s, TON-MW7d	10-9	10:9		x
8	TON-MW8s, TON-MW8d	10-50	10:50		x
9	Field Duplicate				x
10					
11					
12					

SHORT HOLDING TIME
 Cl⁻¹⁶ NO₂ NO₃ OP SS
 DO Cl₂ BOD MBAS COT
 CHK BY: *[Signature]*
 DISTRIBUTION
 SUB-OUT:

Relinquished by: (Signature)	<i>[Signature]</i>	Date & Time	11-12-14 1740
Relinquished by: (Signature)	<i>[Signature]</i>	Date & Time	11-12-14 1830
Relinquished by: (Signature)	<i>[Signature]</i>	Date & Time	11-12-14 2335

Comments:
 1) Where indicated, samples shall be filtered (0.45µm) in the lab to remove turbidity.
 2) Lab reports shall identify sampled wells exactly as shown on this CoC.
 3) Send lab reports to Lohdorff and Scalmanini Consulting Engineers via email: llavagnino@lsce.com, reynson@lsce.com, pdhalwal@lsce.com
 4) Send bill to Del-Tech, only.

(A)= Analysis (C)= Container (P)= Preservative

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-27018

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.98 Container: P5 Thermometer ID: 207 Date/Time: 11-17-14 0335
 Temperature: (A) 0.7 °C (C) 0.3 °C Analyst Init: 77

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	A	A	A	A	A	A	A	A	A	A
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: 77 Date/Time: 11-13-14 0355 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)

A = Actual / C = Corrected



Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427018-01	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 12:33
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW1s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427018-02	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 12:19
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW2s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427018-03	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 13:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW3s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427018-04	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 14:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW4d	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
1427018-05	COC Number:	---	Receive Date:	11/12/2014 23:35
	Project Number:	---	Sampling Date:	11/12/2014 12:53
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TON-MW5s	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1427018-06	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 11:48
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: TON-MW6s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427018-07	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 10:06
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: TON-MW7s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427018-08	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 10:58
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: TON-MW8s	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

1427018-09	COC Number: ---	Receive Date: 11/12/2014 23:35
	Project Number: ---	Sampling Date: 11/12/2014 00:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Field Duplicate #6	Lab Matrix: Water
	Sampled By: ---	Sample Type: Groundwater
		Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-01	Client Sample Name: TON-MW1s, 11/12/2014 12:33:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.1	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	73	mg/L	5.0	1.6	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 00:48	OLH	IC1	1	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1530
3	EPA-350.1	11/20/14	11/20/14 17:46	JP1	SC-1	50	BXK1835

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-02	Client Sample Name: TON-MW2s, 11/12/2014 12:19:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	16	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	3500	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	0.13	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:03	OLH	IC1	2	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	20	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:30	JP1	SC-1	1	BXK1835

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-03	Client Sample Name: TON-MW3s, 11/12/2014 1:15:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	24	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1800	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:17	OLH	IC1	2	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:32	JP1	SC-1	1	BXK1835

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-04	Client Sample Name: TON-MW4d, 11/12/2014 2:08:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	42	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1900	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.033	mg/L	0.10	0.033	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:32	OLH	IC1	5	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:34	JP1	SC-1	1	BXK1835

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-05	Client Sample Name: TON-MW5s, 11/12/2014 12:53:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	71	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	1800	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-300.0	11/13/14	11/14/14 01:47	OLH	IC1	5	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:34	JP1	SC-1	1	BXK1835

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-06	Client Sample Name: TON-MW6s, 11/12/2014 11:48:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	5.8	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	2000	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	0.18	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:02	OLH	IC1	1	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:35	JP1	SC-1	1	BXK1835

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-07	Client Sample Name: TON-MW7s, 11/12/2014 10:06:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.17	mg/L	0.10	0.025	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	760	mg/L	50	50	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:17	OLH	IC1	1	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	5	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:36	JP1	SC-1	1	BXK1835

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-08	Client Sample Name: TON-MW8s, 11/12/2014 10:58:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	19	mg/L	0.20	0.050	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2700	mg/L	200	200	SM-2540C	ND		2
Ammonia as N	ND	mg/L	0.10	0.033	EPA-350.1	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:31	OLH	IC1	2	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	20	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:37	JP1	SC-1	1	BXK1835

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

BCL Sample ID: 1427018-09	Client Sample Name: Field Duplicate #6, 11/12/2014 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.3	mg/L	0.50	0.12	EPA-300.0	ND	A01	1
Total Dissolved Solids @ 180 C	2000	mg/L	100	100	SM-2540C	ND		2
Ammonia as N	71	mg/L	5.0	1.6	EPA-350.1	ND	A01	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/13/14	11/14/14 02:46	OLH	IC1	5	BXK1221
2	SM-2540C	11/18/14	11/18/14 13:00	CAD	MANUAL	10	BXK1530
3	EPA-350.1	11/20/14	11/20/14 16:46	JP1	SC-1	50	BXK1836

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Del-Tech
645 North Yosemite Ave.
Oakdale, CA 95361

Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1221						
Nitrate as N	BXK1221-BLK1	ND	mg/L	0.10	0.025	
QC Batch ID: BXK1530						
Total Dissolved Solids @ 180 C	BXK1530-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXK1835						
Ammonia as N	BXK1835-BLK1	ND	mg/L	0.10	0.033	
QC Batch ID: BXK1836						
Ammonia as N	BXK1836-BLK1	ND	mg/L	0.10	0.033	

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Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXK1221										
Nitrate as N	BXK1221-BS1	LCS	5.3210	5.0000	mg/L	106		90 - 110		
QC Batch ID: BXK1530										
Total Dissolved Solids @ 180 C	BXK1530-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXK1835										
Ammonia as N	BXK1835-BS1	LCS	0.97780	1.0000	mg/L	97.8		90 - 110		
QC Batch ID: BXK1836										
Ammonia as N	BXK1836-BS1	LCS	0.98450	1.0000	mg/L	98.4		90 - 110		

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Reported: 12/01/2014 13:04
Project: Dairy Representative Monitoring Program
Project Number: Tony L. Lopes Dairy LP
Project Manager: Don Light

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXK1221		Used client sample: Y - Description: TON-MW1s, 11/12/2014 12:33								
Nitrate as N	DUP	427018-01RE	1.9550	2.0850		mg/L	6.4		10	
	MS	427018-01RE	1.9550	28.197	25.253	mg/L		104		80 - 120
	MSD	427018-01RE	1.9550	28.333	25.253	mg/L	0.5	104	10	80 - 120
QC Batch ID: BXK1530		Used client sample: Y - Description: TON-MW1s, 11/12/2014 12:33								
Total Dissolved Solids @ 180 C	DUP	1427018-01	1930.0	1920.0		mg/L	0.5		10	
QC Batch ID: BXK1835		Used client sample: N								
Ammonia as N	DUP	1426867-04	ND	ND		mg/L			10	
	MS	1426867-04	ND	1.1832	1.1111	mg/L		106		90 - 110
	MSD	1426867-04	ND	1.1943	1.1111	mg/L	0.9	107	10	90 - 110
QC Batch ID: BXK1836		Used client sample: N								
Ammonia as N	DUP	1427019-01	0.11760	0.11510		mg/L	2.1		10	
	MS	1427019-01	0.11760	1.2763	1.1111	mg/L		104		90 - 110
	MSD	1427019-01	0.11760	1.3059	1.1111	mg/L	2.3	107	10	90 - 110

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Project: Dairy Representative Monitoring Program
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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.