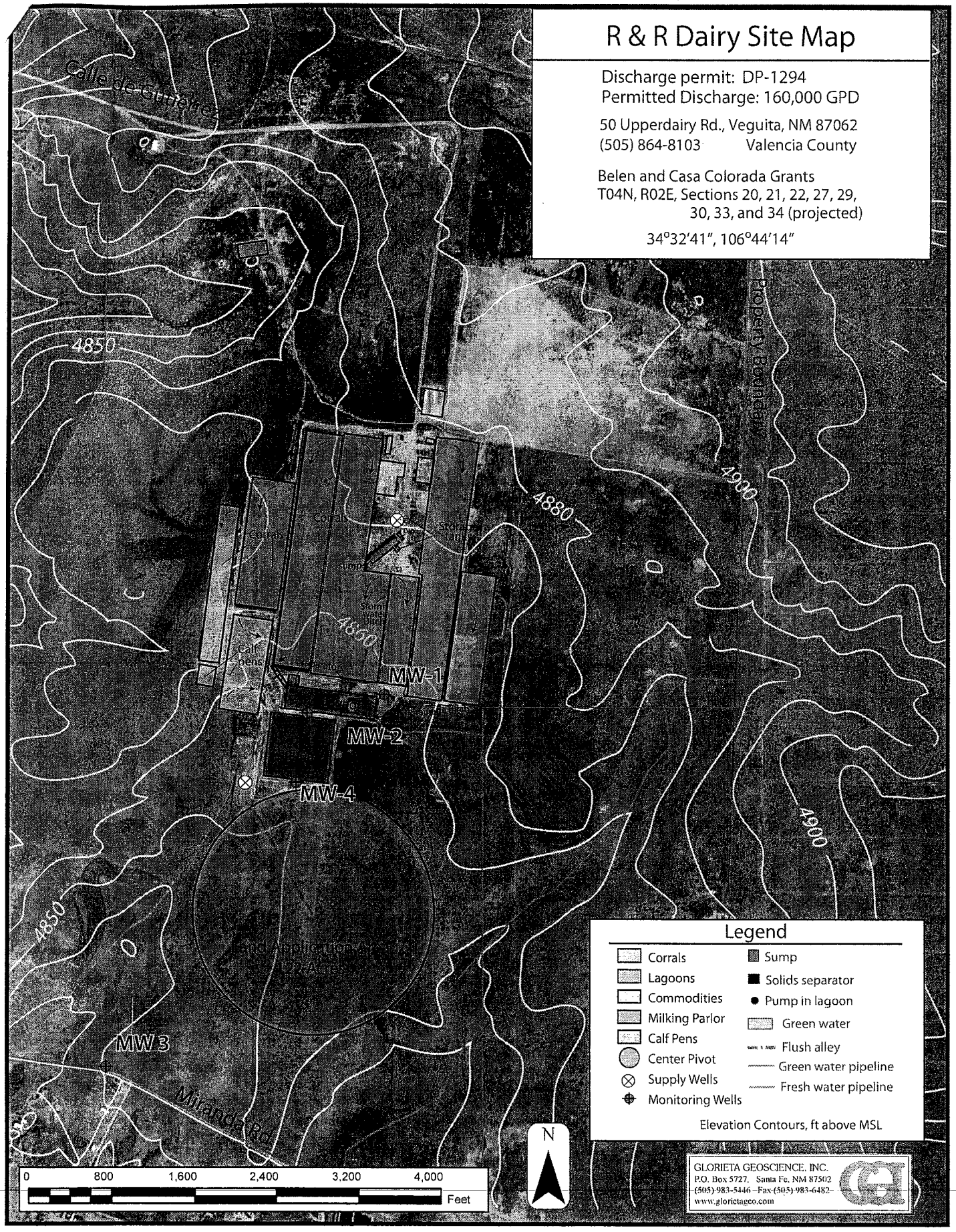
DP-1294


R & R Dairy Site Map
Discharge permit: DP-1294
Permitted Discharge: 160,000 GPD
50 Upperdairy Rd., Veguita, NM 87062
(505) 864-8103 Valencia County
Belen and Casa Colorada Grants
T04N, R02E, Sections 20, 21, 22, 27, 29, 30, 33, and 34 (projected)
34°32'41", 106°44'14"
Calle de Cuervo
Property Boundary
4850
4880
4900
MW-1
MW-2
MW-4
MW 3
Miranda Rd
Legend
Corrals
Lagoons
Commodities
Milking Parlor
Calf Pens
Center Pivot
Supply Wells
Monitoring Wells
Sump
Solids separator
Pump in lagoon
Green water
Flush alley
Green water pipeline
Fresh water pipeline
Elevation Contours, ft above MSL
N
0 800 1,600 2,400 3,200 4,000
Feet
GLORIETA GEOSCIENCE, INC.
P.O. Box 5727. Santa Fe, NM 87502
(505) 983-5446 Fax (505) 983-6482
www.gloriatageo.com

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Hall Environmental Analysis Laboratory, Inc.

Date: *27-Oct-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW 1
Lab Order:	0910357	**Collection Date:**	10/19/2009 11:58:00 AM
Project:	R & R Dairy	**Date Received:**	10/19/2009
Lab ID:	0910357-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	12	0.10		mg/L	1	10/20/2009 12:35:07 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/26/2009 1:22:50 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	215	20.0		mg/L	1	10/23/2009 6:12:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	10/26/2009 2:42:00 PM

Qualifiers:		
	*	Value exceeds Maximum Contaminant Level
	E	Estimated value
	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit
	S	Spike recovery outside accepted recovery limits
	B	Analyte detected in the associated Method Blank
	H	Holding times for preparation or analysis exceeded
	MCL	Maximum Contaminant Level
	RL	Reporting Limit

GROUND WATER

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Oct-09*

JAN 04 2010

BUREAU

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW 2
Lab Order:	0910357	**Collection Date:**	10/19/2009 1:00:00 PM
Project:	R & R Dairy	**Date Received:**	10/19/2009
Lab ID:	0910357-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	10	0.10		mg/L	1	10/20/2009 1:09:55 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/26/2009 1:40:14 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	202	20.0		mg/L	1	10/23/2009 6:12:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	10/26/2009 2:42:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Oct-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW 3
Lab Order:	0910357	**Collection Date:**	10/19/2009 3:21:00 PM
Project:	R & R Dairy	**Date Received:**	10/19/2009
Lab ID:	0910357-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	9.1	0.10		mg/L	1	10/20/2009 1:44:44 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/26/2009 1:57:39 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	195	20.0		mg/L	1	10/23/2009 6:12:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	10/26/2009 2:42:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	
	E	Estimated value	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level	
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit	
	S	Spike recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Oct-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW 4
Lab Order:	0910357	**Collection Date:**	10/19/2009 2:16:00 PM
Project:	R & R Dairy	**Date Received:**	10/19/2009
Lab ID:	0910357-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	13	0.10		mg/L	1	10/20/2009 2:54:23 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/26/2009 2:15:04 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	234	20.0		mg/L	1	10/23/2009 6:12:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	10/26/2009 2:42:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-1
Lab Order:	0907105	**Collection Date:**	7/6/2009 5:26:00 PM
Project:	R & R Dairy	**Date Received:**	7/7/2009
Lab ID:	0907105-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	11	0.10		mg/L	1	7/8/2009 3:03:36 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/9/2009 6:54:09 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	220	20		mg/L	1	7/8/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	7/14/2009

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0907105	**Collection Date:**	7/6/2009 6:45:00 PM
Project:	R & R Dairy	**Date Received:**	7/7/2009
Lab ID:	0907105-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	9.7	0.10		mg/L	1	7/8/2009 3:55:49 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/9/2009 5:09:40 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	210	20		mg/L	1	7/8/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	7/14/2009

Qualifiers:	* Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E Estimated value	H	Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL	Reporting Limit
	S Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0907105	**Collection Date:**	7/6/2009 7:00:00 PM
Project:	R & R Dairy	**Date Received:**	7/7/2009
Lab ID:	0907105-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	8.7	0.10		mg/L	1	7/8/2009 5:02:08 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/9/2009 6:36:44 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	210	20		mg/L	1	7/8/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	7/14/2009

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-4
Lab Order:	0907105	**Collection Date:**	7/6/2009 5:15:00 PM
Project:	R & R Dairy	**Date Received:**	7/7/2009
Lab ID:	0907105-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: TAF
EPA METHOD 300.0: ANIONS						
Chloride	12	0.10		mg/L	1	7/8/2009 2:46:12 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/9/2009 5:27:05 PM
						Analyst: KMS
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	230	20		mg/L	1	7/8/2009
						Analyst: LJB
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	7/14/2009

Qualifiers:	* Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E Estimated value	H	Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL	Reporting Limit
	S Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Apr-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-1
Lab Order:	0903490	**Collection Date:**	3/31/2009 10:55:00 AM
Project:	R & R Dairy	**Date Received:**	3/31/2009
Lab ID:	0903490-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	11	0.10		mg/L	1	4/1/2009 3:54:59 PM
Nitrogen, Nitrate (As N)	0.51	0.10		mg/L	1	4/1/2009 3:54:59 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAT**
Total Dissolved Solids	210	20		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/14/2009

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Apr-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0903490	**Collection Date:**	3/31/2009 12:02:00 PM
Project:	R & R Dairy	**Date Received:**	3/31/2009
Lab ID:	0903490-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	9.7	0.10		mg/L	1	4/1/2009 5:04:37 PM
Nitrogen, Nitrate (As N)	0.56	0.10		mg/L	1	4/1/2009 5:04:37 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAT**
Total Dissolved Solids	200	20		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/14/2009

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Apr-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0903490	**Collection Date:**	3/31/2009 10:05:00 AM
Project:	R & R Dairy	**Date Received:**	3/31/2009
Lab ID:	0903490-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	8.6	0.10		mg/L	1	4/1/2009 4:29:47 PM
Nitrogen, Nitrate (As N)	0.32	0.10		mg/L	1	4/1/2009 4:29:47 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAT**
Total Dissolved Solids	220	20		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/14/2009

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

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Hall Environmental Analysis Laboratory, Inc.

Date: *14-Apr-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-4
Lab Order:	0903490	**Collection Date:**	3/31/2009 9:55:00 AM
Project:	R & R Dairy	**Date Received:**	3/31/2009
Lab ID:	0903490-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	11	0.10		mg/L	1	4/1/2009 3:20:09 PM
Nitrogen, Nitrate (As N)	0.53	0.10		mg/L	1	4/1/2009 3:20:09 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAT**
Total Dissolved Solids	200	20		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/14/2009

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jan-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-1
Lab Order:	0901288	**Collection Date:**	1/21/2009 10:50:00 AM
Project:	R & R Dairy	**Date Received:**	1/22/2009
Lab ID:	0901288-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	10	0.10		mg/L	1	1/22/2009 3:07:33 PM
Nitrogen, Nitrate (As N)	0.38	0.10		mg/L	1	1/22/2009 3:07:33 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	210	20		mg/L	1	1/22/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/24/2009

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jan-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0901288	**Collection Date:**	1/21/2009 11:50:00 AM
Project:	R & R Dairy	**Date Received:**	1/22/2009
Lab ID:	0901288-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	9.4	0.10		mg/L	1	1/22/2009 3:59:46 PM
Nitrogen, Nitrate (As N)	0.43	0.10		mg/L	1	1/22/2009 3:59:46 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	210	20		mg/L	1	1/22/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/24/2009

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jan-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0901288	**Collection Date:**	1/21/2009 1:23:00 PM
Project:	R & R Dairy	**Date Received:**	1/22/2009
Lab ID:	0901288-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	8.4	0.10		mg/L	1	1/22/2009 4:17:10 PM
Nitrogen, Nitrate (As N)	0.17	0.10		mg/L	1	1/22/2009 4:17:10 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	190	20		mg/L	1	1/22/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/24/2009

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jan-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-4
Lab Order:	0901288	**Collection Date:**	1/21/2009 1:07:00 PM
Project:	R & R Dairy	**Date Received:**	1/22/2009
Lab ID:	0901288-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	11	0.10		mg/L	1	1/22/2009 4:34:35 PM
Nitrogen, Nitrate (As N)	0.39	0.10		mg/L	1	1/22/2009 4:34:35 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	220	40		mg/L	1	1/22/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/24/2009

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

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Hall Environmental Analysis Laboratory, Inc.

Date: *15-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0907105	**Collection Date:**	7/6/2009 6:36:00 PM
Project:	R & R Dairy	**Date Received:**	7/7/2009
Lab ID:	0907105-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	650	5.0		mg/L	50	7/9/2009 1:23:22 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	7/8/2009 3:21:01 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	320	40		mg/L	1	7/8/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	840	20		mg/L	1	7/14/2009

Qualifiers:			
*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

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Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jan-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon-1
Lab Order:	0901288	**Collection Date:**	1/21/2009 10:00:00 AM
Project:	R & R Dairy	**Date Received:**	1/22/2009
Lab ID:	0901288-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	680	5.0		mg/L	50	1/22/2009 2:50:08 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	1/22/2009 2:32:44 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	7200	2000		mg/L	1	1/22/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	1100	20		mg/L	1	1/24/2009

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Jul-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0807180	**Collection Date:**	7/14/2008 4:50:00 PM
Project:	R & R Dairy	**Date Received:**	7/15/2008
Lab ID:	0807180-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	800	2.0		mg/L	20	7/16/2008 12:49:35 AM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	7/16/2008 12:49:35 AM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	9000	2000		mg/L	1	7/16/2008
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	2100	20		mg/L	1	7/21/2008

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Feb-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0801325	**Collection Date:**	1/29/2008 5:11:00 PM
Project:	R & R Dairy	**Date Received:**	1/30/2008
Lab ID:	0801325-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	580	5.0		mg/L	50	2/4/2008 10:54:22 AM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	1/31/2008 2:53:58 AM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	9800	1000		mg/L	1	2/1/2008
SM4500-NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	1400	20		mg/L	1	2/6/2008

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

DP-1294 STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **PAREO DAIRY**
Project: **R & R RANCH DAIRY**
Order: **0303043 PARD1** Receipt: **03-05-03**

Sample: ***WELL 3*** Collected: *03-04-03 16:15:00* By: *AG*
Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0303043-03A		**EPA 160.1 Total Dissolved Solids**						By: MVR		
WTDS-03-011	WC.2003.578.9		Total Dissolved Solids	110	mg/L	1	10		03-07-03	03-10-03
0303043-03A		**EPA 300.0 Anions by IC**						By: DAW		
W0382	WC.2003.546.16	16887-00-6	Chloride	4.93	mg / L	10	0.05		03-05-03	03-05-03
W0382	WC.2003.546.18	14797-65-0	Nitrate, as N	ND	mg / L	10	0.05		03-05-03	03-05-03
W0382	WC.2003.546.18	14797-55-8	Nitrite, as N	ND	mg / L	10	0.05		03-05-03	03-05-03
0303043-03B		**SM 4500-N & NH3B,C**						By: SGS		
W0399	WC.2003.661.5		Kjeldahl Nitrogen, Total	0.5	mg / L	1	0.2		03-18-03	03-20-03

Sample: ***LAGOON*** Collected: *03-05-03 8:10:00* By: *AG*
Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0303043-04A		**EPA 300.0 Anions by IC**						By: DAW		
W0382	WC.2003.546.19	14797-65-0	Nitrate, as N	1.49	mg / L	10	0.05		03-05-03	03-05-03
0303043-04A		**SM 4500-N & NH3B,C**						By: SGS		
W0399	WC.2003.661.6		Kjeldahl Nitrogen, Total	117	mg / L	50	0.2		03-18-03	03-20-03

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Forest WW

DP-1294

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Jul-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0807180	**Collection Date:**	7/14/2008 4:50:00 PM
Project:	R & R Dairy	**Date Received:**	7/15/2008
Lab ID:	0807180-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	800	2.0		mg/L	20	7/16/2008 12:49:35 AM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	7/16/2008 12:49:35 AM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	9000	2000		mg/L	1	7/16/2008
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	2100	20		mg/L	1	7/21/2008

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Highest WW

OP-1294

STL

STL Pensacola 3355 McLemore Drive - Pensacola FL 32514 Telephone:(850) 474-1001 Fax:(850) 478-2671

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
06732-1	MW-1/406092-01	Liquid	06/24/04	06/23/04 15:30	
06732-2	MW-2/406092-02	Liquid	06/24/04	06/23/04 15:15	
06732-3	MW-3/406092-03	Liquid	06/24/04	06/23/04 15:10	
06732-4	MW-4/406092-04	Liquid	06/24/04	06/23/04 13:35	

Parameter	Units	Lab Sample IDs 06732-1	06732-2	06732-3	06732-4
Nitrate-Nitrite, Nitrogen (353.2)					
Nitrate + Nitrite-N	mg/l	0.63	0.64	0.25	0.51
Nitrate-N	mg/l	0.63	0.64	0.25	0.51
Dilution Factor		1	1	1	1
Analysis Date		07/01/04	07/01/04	07/01/04	07/01/04
Batch ID		N3W063	N3W063	N3W063	N3W063
Analyst		CR	CR	CR	CR
Nitrite-N (354.1)					
Nitrite-N	mg/l	<0.10	<0.10	<0.10	<0.10
Dilution Factor		1	1	1	1
Analysis Date		06/25/04	06/25/04	06/25/04	06/25/04
Batch ID		N2W100	N2W100	N2W100	N2W100
Analyst		RLE	RLE	RLE	RLE
Chloride (4500E)					
Chloride	mg/l	9.8	8.7	7.3	11
Dilution Factor		1	1	1	1
Analysis Date		06/29/04	06/29/04	06/29/04	06/29/04
Batch ID		CKW052	CKW052	CKW052	CKW052
Analyst		CR	CR	CR	CR

Highest GW - MW-2
Syn - lagoon

STL

Pensacola 3355 McLemore Drive - Pensacola FL 32514 Telephone:(850) 474-1001 Fax:(850) 478-2671

Analytical Data Report

Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
06732-1	MW-1/406092-01	Liquid	06/24/04	06/23/04 15:30	
06732-2	MW-2/406092-02	Liquid	06/24/04	06/23/04 15:15	
06732-3	MW-3/406092-03	Liquid	06/24/04	06/23/04 15:10	
06732-4	MW-4/406092-04	Liquid	06/24/04	06/23/04 13:35	

Parameter	Units	Lab Sample IDs 06732-1	06732-2	06732-3	06732-4
Total Kjeldahl Nitrogen-N (351.2)					
Total Kjeldahl Nitrogen-N	mg/l	<0.50	0.56	<0.50	<0.50
Dilution Factor		1	1	1	1
Prep Date		06/28/04	06/28/04	06/28/04	06/28/04
Analysis Date		06/29/04	06/29/04	06/29/04	06/29/04
Batch ID		TAW045	TAW045	TAW045	TAW045
Prep Method		351.2	351.2	351.2	351.2
Analyst		CR	CR	CR	CR
Total Dissolved Solids (160.1)					
Total Dissolved Solids	mg/l	230	230	220	260
Dilution Factor		1	1	1	1
Analysis Date		06/24/04	06/24/04	06/24/04	06/24/04
Batch ID		TDW058	TDW058	TDW058	TDW058
Analyst		ST	ST	ST	ST