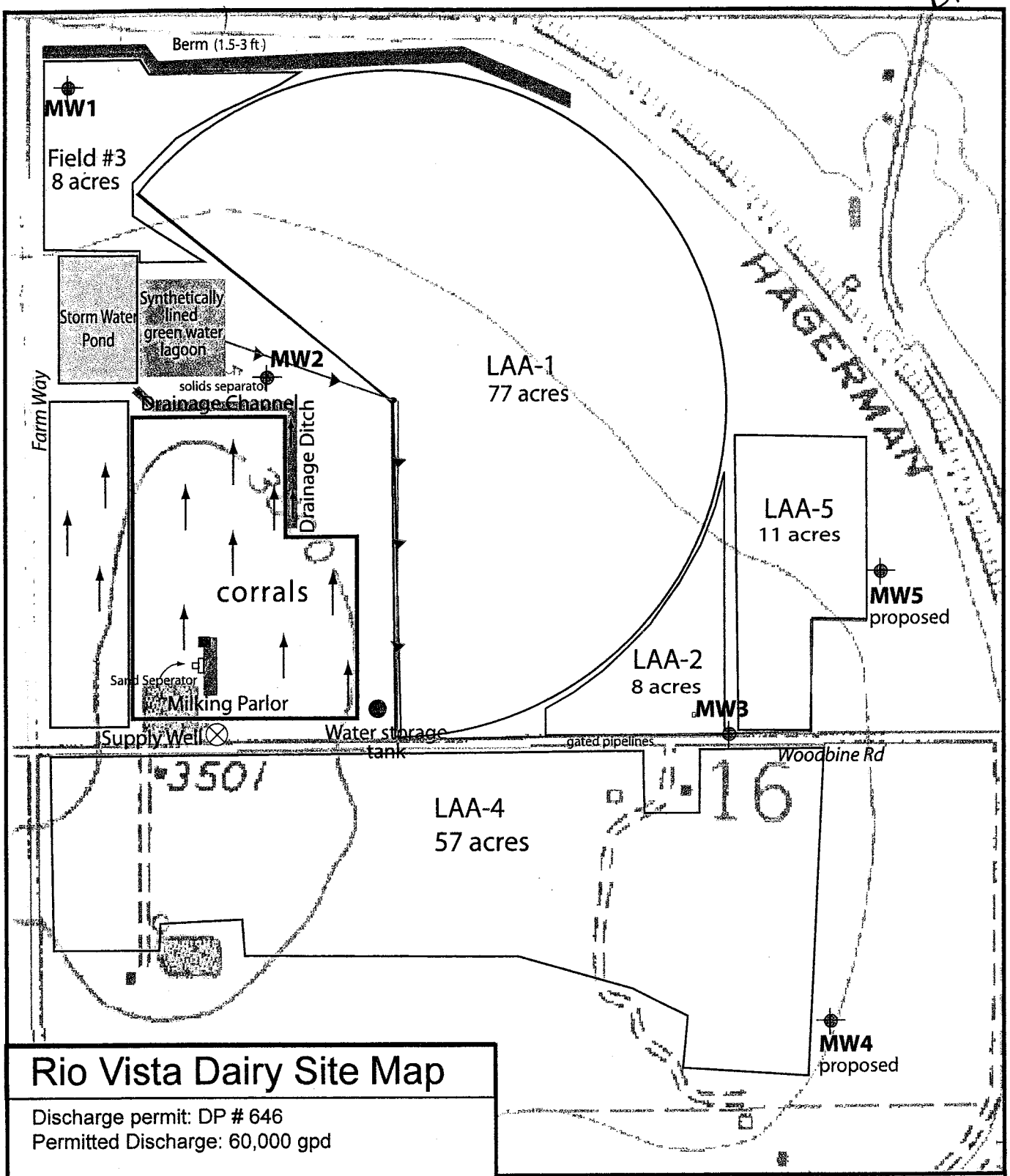
DP-646



Rio Vista Dairy Site Map

Discharge permit: DP # 646
Permitted Discharge: 60,000 gpd

33°21'37"N, 104°24'42"
T11S, R25E, Section 16

3909 Woodbine Way
Roswell, NM 88203
(505) 627-0751
Chaves County

GLORIETA GEOSCIENCE, INC.
P.O. Box 5727 Santa Fe, NM 87502
(505) 983-5446 Fax (505) 983-6482
E-mail: ggi@glorietageo.com
Web Address: www.glorietageo.com

Legend
- Sump
- Green water irrigation pipelines
- Monitoring well
- Supply well
- Lagoon
- Pond

N

0 0.125 0.25 MILE

DP-1646

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Feb-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-1
Lab Order:	0901420	**Collection Date:**	1/29/2009 9:26:00 AM
Project:	Rio Vista Dairy	**Date Received:**	1/29/2009
Lab ID:	0901420-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	690	5.0		mg/L	50	2/3/2009 10:32:19 AM
Nitrogen, Nitrate (As N)	2.8	0.10		mg/L	1	1/30/2009 11:06:17 AM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	2900	200		mg/L	1	1/30/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/3/2009

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		

DP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Feb-09*

CLIENT: Glorieta GeoScience
Lab Order: 0901420
Project: Rio Vista Dairy
Lab ID: 0901420-02

Client Sample ID: MW-2
Collection Date: 1/29/2009 9:43:00 AM
Date Received: 1/29/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: RAGS
EPA METHOD 300.0: ANIONS						
Chloride	1100	5.0		mg/L	50	1/30/2009 1:42:58 PM
Nitrogen, Nitrate (As N)	0.72	0.10		mg/L	1	1/30/2009 1:08:09 PM
						Analyst: KMS
SM 2540 C: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	3900	200		mg/L	1	2/3/2009
						Analyst: TAF
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	1.3	1.0		mg/L	1	2/3/2009

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		

OP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Feb-09*

CLIENT: Glorieta GeoScience
Lab Order: 0901420
Project: Rio Vista Dairy
Lab ID: 0901420-04

Client Sample ID: MW-3
Collection Date: 1/29/2009 10:11:00 AM
Date Received: 1/29/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: RAGS
EPA METHOD 300.0: ANIONS						
Chloride	580	2.0		mg/L	20	1/30/2009 6:38:56 PM
Nitrate (As N)+Nitrite (As N)	9.4	1.0		mg/L	5	2/3/2009 9:57:30 AM
						Analyst: KMS
SM 2540 C: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	3300	200		mg/L	1	2/3/2009
						Analyst: TAF
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/3/2009

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		

DP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Feb-09*

CLIENT: Glorieta GeoScience
Lab Order: 0901420
Project: Rio Vista Dairy
Lab ID: 0901420-03

Client Sample ID: Lagoon
Collection Date: 1/29/2009 9:35:00 AM
Date Received: 1/29/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	320	1.0		mg/L	10	1/30/2009 5:29:18 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	2/3/2009 9:40:05 AM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	1700	200		mg/L	1	2/3/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	73	10		mg/L	1	2/3/2009

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		

DP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Jan-09*

CLIENT:	Atkins Engineering Associates	**Client Sample ID:**	Moniter Well 4
Lab Order:	0812501	**Collection Date:**	12/23/2008 10:00:00 AM
Project:	Rio Vista Dairy	**Date Received:**	12/24/2008
Lab ID:	0812501-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	280	1.0		mg/L	10	12/24/2008 1:01:52 PM
Nitrogen, Nitrate (As N)	1.9	0.10		mg/L	1	12/24/2008 12:44:27 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	1600	200		mg/L	1	12/30/2008
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/6/2009

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		

DP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Jan-09*

CLIENT: Atkins Engineering Associates
Lab Order: 0812501
Project: Rio Vista Dairy
Lab ID: 0812501-02

Client Sample ID: Monitor Well 5
Collection Date: 12/23/2008 9:00:00 AM
Date Received: 12/24/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: RAGS
EPA METHOD 300.0: ANIONS						
Chloride	260	1.0		mg/L	10	12/24/2008 2:11:30 PM
Nitrogen, Nitrate (As N)	2.0	0.10		mg/L	1	12/24/2008 1:54:05 PM
						Analyst: KMS
SM 2540 C: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	1800	200		mg/L	1	12/30/2008
						Analyst: TAF
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/6/2009

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		

GROUND WATER
DP-646
FEB 05 2009
BUREAU

Hall Environmental Analysis Laboratory, Inc.

Date: *24-Nov-08*

CLIENT: Glorieta GeoScience
Lab Order: 0811055
Project: Rio Vista Dairy
Lab ID: 0811055-01

Client Sample ID: MW-1
Collection Date: 11/5/2008 7:38:00 AM
Date Received: 11/6/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	660	5.0		mg/L	50	11/18/2008 5:54:24 PM
Nitrogen, Nitrate (As N)	2.9	0.10		mg/L	1	11/7/2008 2:02:56 AM
SM 2540C: TDS						Analyst: **KMB**
Total Dissolved Solids	2500	100		mg/L	1	11/11/2008
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	11/7/2008

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		

DP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *24-Nov-08*

CLIENT: Glorieta GeoScience
Lab Order: 0811055
Project: Rio Vista Dairy
Lab ID: 0811055-02

Client Sample ID: MW-2
Collection Date: 11/5/2008 8:10:00 AM
Date Received: 11/6/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: SLB
EPA METHOD 300.0: ANIONS						
Chloride	1100	5.0		mg/L	50	11/20/2008 2:03:14 AM
Nitrogen, Nitrate (As N)	1.1	0.10		mg/L	1	11/7/2008 2:20:20 AM
						Analyst: KMB
SM 2540C: TDS						
Total Dissolved Solids	4200	40		mg/L	1	11/11/2008
						Analyst: TAF
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	11/7/2008

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		

①P-646

Hall Environmental Analysis Laboratory, Inc.

Date: *24-Nov-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0811055	**Collection Date:**	11/5/2008 8:39:00 AM
Project:	Rio Vista Dairy	**Date Received:**	11/6/2008
Lab ID:	0811055-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	440	2.0		mg/L	20	11/20/2008 8:45:40 PM
Nitrogen, Nitrate (As N)	23	1.0		mg/L	10	11/7/2008 2:37:44 AM
SM 2540C: TDS						Analyst: KMB
Total Dissolved Solids	3300	20		mg/L	1	11/11/2008
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/7/2008

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		

DP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Aug-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0808335	**Collection Date:**	8/20/2008 10:38:00 AM
Project:	Rio Vista Dairy	**Date Received:**	8/21/2008
Lab ID:	0808335-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **IC**
Chloride	320	1.0		mg/L	10	8/21/2008 7:56:41 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	8/21/2008 7:56:41 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	1500	40		mg/L	1	8/22/2008
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	20	5.0		mg/L	1	8/25/200

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-1646

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Aug-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW#1
Lab Order:	0808335	**Collection Date:**	8/20/2008 10:11:00 AM
Project:	Rio Vista Dairy	**Date Received:**	8/21/2008
Lab ID:	0808335-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: IC
Chloride	700	5.0		mg/L	50	8/21/2008 7:04:28 PM
Nitrogen, Nitrate (As N)	3.1	0.10		mg/L	1	8/21/2008 6:47:03 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	2600	20		mg/L	1	8/22/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	8/25/200

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-646

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Aug-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW#2
Lab Order:	0808335	**Collection Date:**	8/20/2008 10:32:00 AM
Project:	Rio Vista Dairy	**Date Received:**	8/21/2008
Lab ID:	0808335-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: IC
Chloride	1100	5.0		mg/L	50	8/21/2008 7:39:17 PM
Nitrogen, Nitrate (As N)	1.1	0.10		mg/L	1	8/21/2008 7:21:52 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4400	20		mg/L	1	8/22/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	1.5	1.0		mg/L	1	8/25/200

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-646

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Aug-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW#3
Lab Order:	0808335	**Collection Date:**	8/20/2008 11:10:00 AM
Project:	Rio Vista Dairy	**Date Received:**	8/21/2008
Lab ID:	0808335-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: IC
Chloride	440	2.0		mg/L	20	8/21/2008 8:48:54 PM
Nitrogen, Nitrate (As N)	24	2.0		mg/L	20	8/21/2008 8:48:54 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	3400	20		mg/L	1	8/22/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	8/25/200

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-646

Hall Environmental Analysis Laboratory, Inc.

Date: *21-May-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW#1
Lab Order:	0805176	**Collection Date:**	5/12/2008 12:02:00 PM
Project:	Rio Vista Dairy	**Date Received:**	5/13/2008
Lab ID:	0805176-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SLB
Chloride	710	5.0		mg/L	50	5/13/2008 9:49:14 PM
Nitrogen, Nitrate (As N)	3.1	0.10		mg/L	1	5/13/2008 9:31:50 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	2600	20		mg/L	1	5/14/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	5/15/2008

GROUND WATER

JUL 1 6 2008

BUREAU

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-646

Hall Environmental Analysis Laboratory, Inc.

Date: *21-May-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW#2
Lab Order:	0805176	**Collection Date:**	5/12/2008 12:32:00 PM
Project:	Rio Vista Dairy	**Date Received:**	5/13/2008
Lab ID:	0805176-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SLB
Chloride	1000	5.0		mg/L	50	5/13/2008 10:24:03 PM
Nitrogen, Nitrate (As N)	1.5	0.10		mg/L	1	5/13/2008 10:06:38 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4700	100		mg/L	1	5/14/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	1.4	1.0		mg/L	1	5/15/2008

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-646

Hall Environmental Analysis Laboratory, Inc.

Date: *21-May-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW#3
Lab Order:	0805176	**Collection Date:**	5/12/2008 12:42:00 PM
Project:	Rio Vista Dairy	**Date Received:**	5/13/2008
Lab ID:	0805176-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	530	5.0		mg/L	50	5/13/2008 10:58:52 PM
Nitrogen, Nitrate (As N)	18	1.0		mg/L	10	5/13/2008 10:41:27 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	3300	20		mg/L	1	5/14/2008
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	5/15/2008

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		

GROUND WATER

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Nov-07*

JAN 2 4 2008

BUREAU

DR646

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-1
Lab Order:	0710440	**Collection Date:**	10/22/2007 2:30:00 PM
Project:	Rio Vista Dairy	**Date Received:**	10/23/2007
Lab ID:	0710440-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: KS
Chloride	690	5.0		mg/L	50	10/30/2007 11:04:27 AM
Nitrogen, Nitrate (As N)	3.1	0.10		mg/L	1	10/23/2007 12:34:09 PM
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	3000	200		mg/L	1	10/26/2007
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/1/2007

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		

GROUND WATER

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Nov-07*

JAN 24 2008

DP-646

BUREAU

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0710440	**Collection Date:**	10/22/2007 2:56:00 PM
Project:	Rio Vista Dairy	**Date Received:**	10/23/2007
Lab ID:	0710440-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: KS
Chloride	1100	10		mg/L	100	10/30/2007 11:21:52 AM
Nitrogen, Nitrate (As N)	1.7	0.10		mg/L	1	10/23/2007 1:43:47 PM
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	4800	200		mg/L	1	10/26/2007
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/1/2007

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

DP-646

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Nov-07*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0710440	**Collection Date:**	10/22/2007 3:31:00 PM
Project:	Rio Vista Dairy	**Date Received:**	10/23/2007
Lab ID:	0710440-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: KS
Chloride	560	2.0		mg/L	20	10/30/2007 11:39:17 AM
Nitrogen, Nitrate (As N)	18	0.10		mg/L	1	10/23/2007 2:18:36 PM
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	3200	20		mg/L	1	10/26/2007
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	11/1/2007

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		

DR-646

Hall Environmental Analysis Laboratory, Inc.

Date: 05-Nov-07

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0710440	**Collection Date:**	10/22/2007 3:30:00 PM
Project:	Rio Vista Dairy	**Date Received:**	10/23/2007
Lab ID:	0710440-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: KS
EPA METHOD 300.0: ANIONS						
Chloride	350	2.0		mg/L	20	10/23/2007 2:53:26 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	10/23/2007 2:53:26 PM
						Analyst: TAF
SM 2540C: TDS						
Total Dissolved Solids	2100	400		mg/L	1	10/26/2007
						Analyst: TAF
SM4500-NORG C: TKN						
Nitrogen, Kjeldahl, Total	57	10		mg/L	1	11/1/2007

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-646

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Aug-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0808335	**Collection Date:**	8/20/2008 10:38:00 AM
Project:	Rio Vista Dairy	**Date Received:**	8/21/2008
Lab ID:	0808335-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: IC
Chloride	320	1.0		mg/L	10	8/21/2008 7:56:41 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	8/21/2008 7:56:41 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	1500	40		mg/L	1	8/22/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	20	5.0		mg/L	1	8/25/200

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-646

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Mar-07*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0702249	**Collection Date:**	2/21/2007 11:50:00 AM
Project:	Rio Vista Dairy	**Date Received:**	2/22/2007
Lab ID:	0702249-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TES
Chloride	370	2.0		mg/L	20	2/22/2007 5:14:52 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	2/22/2007 5:14:52 PM
EPA METHOD 160.1: TDS						Analyst: KS
Total Dissolved Solids	2100	40		mg/L	1	2/26/2007
EPA METHOD 351.3: TKN						Analyst: MAP
Nitrogen, Kjeldahl, Total	84	10		mg/L	1	2/28/2007

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		

10/29/91 DP-646 DP-646

Lab Request# L59

Lab Sample# 91-176-L105-L107

Date Sampled 6-25-91

Time Sampled In Sample Description

Date Received 6-25-91

Time Received 1200

Date Reported 6-26-91

Note section on back of form.
Type of Sample; Grab x ,Flow Comp. ___ ,Time Comp. ___ ,Other

Sample Location Monitoring Wells, and Lagoon

LABORATORY REPORT
Roswell Test Facility
3801 East Second Street
P. O. Drawer 1838
Roswell, NM 88201
Phone (505) 623-0531

Inorganic Non Metals

Sample Taken By Ron Gorzeman

Sample Source H & R Gorzeman Dairy

Bill To: H & R Gorzeman Dairy
Rt. 2 3909 ~~Woodbine~~ Way
Roswell, NM 88201 woodbine
home? 624-2672

Copies To: Mr. Charlie Sparnon Utilities Director
Same as billing

JUL 05 1991

ROSWELL OFFICE

MW-1 MW-2

Sample Description	East Well L105 1126	West Well L106 1135	Lagoon L107 1143		Method Detection Limit	Unit Price	Total Price	Method Reference
Calcium (Ca) mg/L								EPA 215.2
Total Hardness (CaCO3) mg/L								EPA 130.2
Magnesium (Mg) mg/L								SM 313 C
Chloride (Cl) mg/L	2490	1650			10mg/L	10	20	EPA 325.3
Sulfate (SO4) mg/L								ASTM D 515-68B
Bicarbonate (HCO3) mg/L								SM 403
Carbonate (CO3) mg/L								SM 403
Sodium (Na) mg/L								EPA 273.1
Potassium (K) mg/L								EPA 258.1
pH pH units								SM 423
Conductivity 25C mmhos								SM 205
Dissolved Solids Evap. mg/L	7220	5910			10mg/L	10	20	SM 209 B
Nitrates (NO3-N) mg/L	54.4	13.0	0.21		0.02mg/L	20	60	EPA 353.3
Nitrites (NO2-N) mg/L								EPA 353.3
TKN-N mg/L	2.7	3.5	98.8		0.1mg/L	20	60	EPA 351.3
Fluoride (F) mg/L								EPA 340.2
Cyanide Total (CN) mg/L								EPA 335.2
Phosphate Ortho (PO4) mg/L								ASTM D 515-72B
Phosphate Total (PO4) mg/L								ASTM D 515-72B
Chlorine Total (Cl) mg/L								SM 309
Chlorine Free (Cl) mg/L								SM 309
Iron Ferrous (Fe2+) mg/L								ASTM D1068-77A
Iron Ferric (Fe3+) mg/L								ASTM D1068-77A
Ammonia Free (NH3-N) mg/L	58.5				0.3mg/L	10	10	SM 417 E
Alkalinity (CaCO3) mg/L								SM 403

RECEIVED
JUL 09 1991
GROUND WATER BUREAU

References are on back of the form.

Total $ 170.00