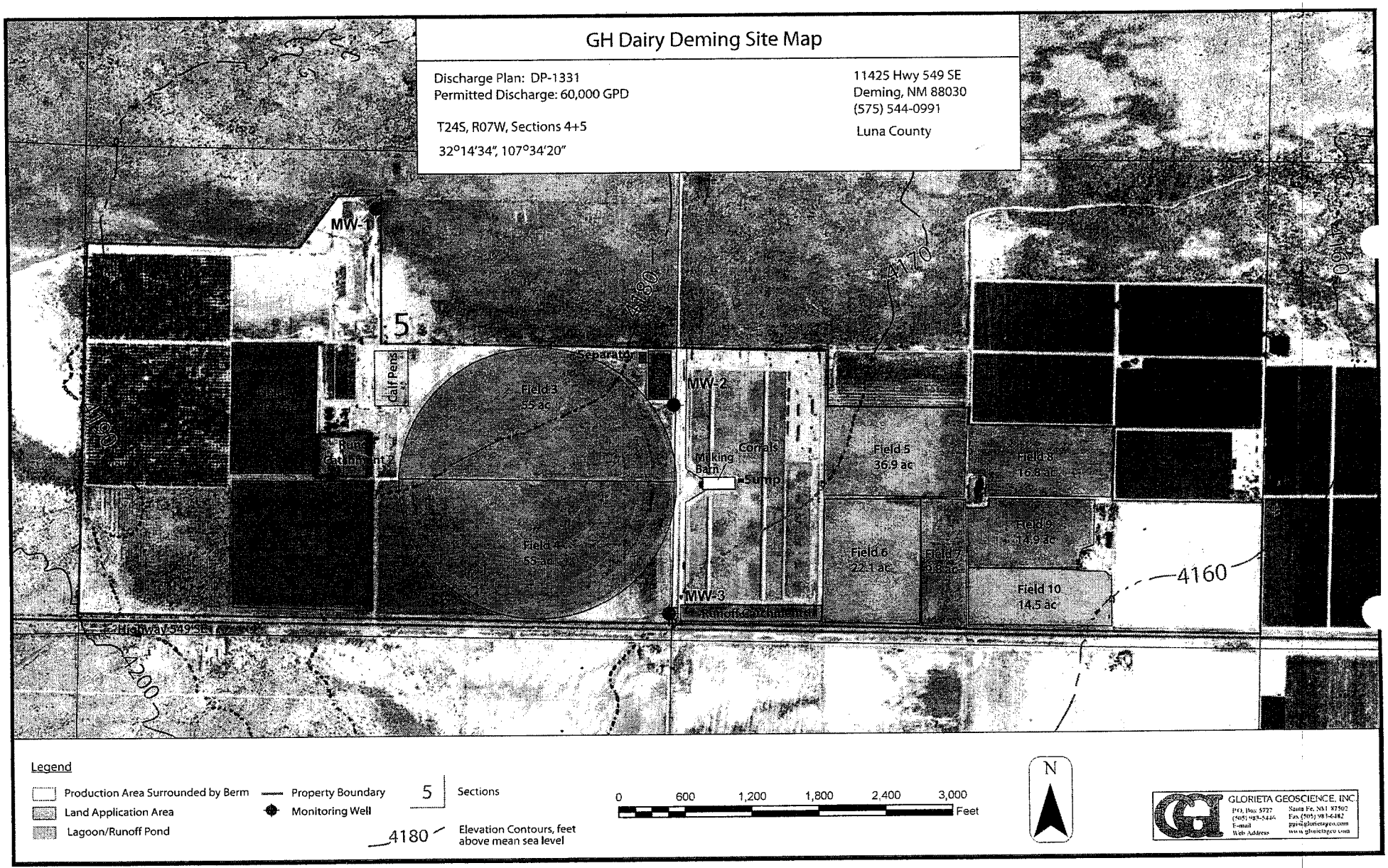
GH Dairy Deming Site Map
Discharge Plan: DP-1331
Permitted Discharge: 60,000 GPD
T24S, R07W, Sections 4+5
32°14'34", 107°34'20"
11425 Hwy 549 SE
Deming, NM 88030
(575) 544-0991
Luna County
MW-1
MW-2
MW-3
5
Calf Pens
Separator
Field 1
85 ac
Corrals
Milking Barn
Sump
Field 5
36.9 ac
Field 8
16.8 ac
Field 9
14.9 ac
Field 4
55 ac
Field 6
22.1 ac
Field 7
9.8 ac
Field 10
14.5 ac
Runoff Containment
Highway 549 SE
4160
4170
4180
4190
4200
Legend
Production Area Surrounded by Berm
Land Application Area
Lagoon/Runoff Pond
Property Boundary
Monitoring Well
5
Sections
4180
Elevation Contours, feet above mean sea level
0
600
1,200
1,800
2,400
3,000
Feet
N
GLORIETA GEOSCIENCE, INC.
PO. Box 5727
(505) 983-5446
E-mail
Web Address
Santa Fe, NM 87502
Fax (505) 983-6482
gpo@glorietageo.com
www.glorietageo.com

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Jul-09*

NOV 0 3 2009

CLIENT: Glorieta GeoScience
Lab Order: 0907130
Project: Butterfield Dairy
Lab ID: 0907130-01

Client Sample ID: MW-1
Collection Date: 7/7/2009 4:33:00 PM
Date Received: 7/8/2009
Matrix: AQUEOUS

BUREAU

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	40	1.0		mg/L	10	7/9/2009 10:44:54 AM
Nitrogen, Nitrate (As N)	16	1.0		mg/L	10	7/9/2009 10:44:54 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	817	20.0		mg/L	1	7/10/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	7/13/2009

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

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0907130	**Collection Date:**	7/7/2009 6:32:00 PM
Project:	Butterfield Dairy	**Date Received:**	7/8/2009
Lab ID:	0907130-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	35	1.0		mg/L	10	7/9/2009 9:52:39 AM
Nitrogen, Nitrate (As N)	21	1.0		mg/L	10	7/9/2009 9:52:39 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	759	20.0		mg/L	1	7/10/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	7/13/2009

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: *16-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0907130	**Collection Date:**	7/7/2009 5:27:00 PM
Project:	Butterfield Dairy	**Date Received:**	7/8/2009
Lab ID:	0907130-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	46	1.0		mg/L	10	7/9/2009 10:10:04 AM
Nitrogen, Nitrate (As N)	29	1.0		mg/L	10	7/9/2009 10:10:04 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	912	20.0		mg/L	1	7/10/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	7/13/2009

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 WATE

Hall Environmental Analysis Laboratory, Inc.

Date: *19-May-09*

JUL 2 9 2009

BUREAU

CLIENT: Glorieta GeoScience
Lab Order: 0905132
Project: Butterfield Dairy
Lab ID: 0905132-01

Client Sample ID: MW1
Collection Date: 5/7/2009 9:15:00 AM
Date Received: 5/8/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	38	0.10		mg/L	1	5/8/2009 10:20:16 PM
Nitrogen, Nitrate (As N)	17	0.10		mg/L	1	5/8/2009 10:20:16 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	800	20		mg/L	1	5/14/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	5/13/2009

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: *19-May-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW2
Lab Order:	0905132	**Collection Date:**	5/7/2009 10:55:00 AM
Project:	Butterfield Dairy	**Date Received:**	5/8/2009
Lab ID:	0905132-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	36	0.10		mg/L	1	5/8/2009 10:55:05 PM
Nitrogen, Nitrate (As N)	23	1.0		mg/L	10	5/8/2009 11:47:17 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	780	20		mg/L	1	5/14/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	5/13/2009

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: *19-May-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW3
Lab Order:	0905132	**Collection Date:**	5/7/2009 10:02:00 AM
Project:	Butterfield Dairy	**Date Received:**	5/8/2009
Lab ID:	0905132-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	47	1.0		mg/L	10	5/9/2009 12:22:07 AM
Nitrogen, Nitrate (As N)	30	1.0		mg/L	10	5/9/2009 12:22:07 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	920	20		mg/L	1	5/14/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	5/13/2009

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
MAY 01 2009
BUREAU

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Feb-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-1
Lab Order:	0901337	**Collection Date:**	1/23/2009 8:11:00 AM
Project:	Butterfield Dairy	**Date Received:**	1/23/2009
Lab ID:	0901337-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	12	0.10		mg/L	1	1/28/2009 9:01:08 AM
Nitrate (As N)+Nitrite (As N)	4.6	1.0		mg/L	5	1/28/2009 9:18:34 AM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	590	40		mg/L	1	1/27/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	1/28/2009

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: *03-Feb-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0901337	**Collection Date:**	1/23/2009 9:05:00 AM
Project:	Butterfield Dairy	**Date Received:**	1/23/2009
Lab ID:	0901337-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	40	1.0		mg/L	10	1/28/2009 10:45:37 AM
Nitrate (As N)+Nitrite (As N)	28	1.0		mg/L	5	1/28/2009 11:03:01 AM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	790	100		mg/L	1	1/27/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	1/28/2009

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: *03-Feb-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0901337	**Collection Date:**	1/23/2009 9:54:00 AM
Project:	Butterfield Dairy	**Date Received:**	1/23/2009
Lab ID:	0901337-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	43	1.0		mg/L	10	1/28/2009 11:55:15 AM
Nitrate (As N)+Nitrite (As N)	30	1.0		mg/L	5	1/28/2009 12:12:40 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	900	100		mg/L	1	1/27/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	1/28/2009

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: *21-Oct-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-1
Lab Order:	0810194	**Collection Date:**	10/8/2008 9:51:00 AM
Project:	Butterfield Dairy	**Date Received:**	10/9/2008
Lab ID:	0810194-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	21	0.10		mg/L	1	10/9/2008 6:35:39 PM
Nitrogen, Nitrate (As N)	12	0.10		mg/L	1	10/9/2008 6:35:39 PM
SM 2540C: TDS						Analyst: **KMB**
Total Dissolved Solids	690	20		mg/L	1	10/13/2008
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	10/13/2008

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: *21-Oct-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0810194	**Collection Date:**	10/8/2008 10:32:00 AM
Project:	Butterfield Dairy	**Date Received:**	10/9/2008
Lab ID:	0810194-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	41	1.0		mg/L	10	10/9/2008 7:27:53 PM
Nitrogen, Nitrate (As N)	27	1.0		mg/L	10	10/9/2008 7:27:53 PM
SM 2540C: TDS						Analyst: **KMB**
Total Dissolved Solids	860	20		mg/L	1	10/13/2008
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	10/13/2008

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: *21-Oct-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0810194	**Collection Date:**	10/8/2008 11:06:00 AM
Project:	Butterfield Dairy	**Date Received:**	10/9/2008
Lab ID:	0810194-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	45	1.0		mg/L	10	10/9/2008 8:02:42 PM
Nitrogen, Nitrate (As N)	30	1.0		mg/L	10	10/9/2008 8:02:42 PM
SM 2540C: TDS						Analyst: **KMB**
Total Dissolved Solids	930	20		mg/L	1	10/13/2008
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	10/14/2008

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: *16-Jul-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0907130	**Collection Date:**	7/7/2009 6:51:00 PM
Project:	Butterfield Dairy	**Date Received:**	7/8/2009
Lab ID:	0907130-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	140	1.0		mg/L	10	7/9/2009 10:27:29 AM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	7/9/2009 10:27:29 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	2080	400		mg/L	1	7/10/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	280	20		mg/L	1	7/13/2009

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		

OIL CONS. WATER
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Hall Environmental Analysis Laboratory, Inc.

Date: *03-Feb-09*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0901337	**Collection Date:**	1/23/2009 9:02:00 AM
Project:	Butterfield Dairy	**Date Received:**	1/23/2009
Lab ID:	0901337-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	180	1.0		mg/L	10	1/28/2009 10:10:48 AM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	1/28/2009 10:28:12 AM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	1900	400		mg/L	1	1/27/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	280	10		mg/L	1	1/28/2009

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-Jul-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0807217	**Collection Date:**	7/16/2008 12:10:00 PM
Project:	Butterfield Dairy	**Date Received:**	7/17/2008
Lab ID:	0807217-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: IC
Chloride	130	2.0		mg/L	20	7/17/2008 8:46:07 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	7/17/2008 8:46:07 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	1600	200		mg/L	1	7/22/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	240	10		mg/L	1	7/23/2008

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: *11-Feb-08*

MAY 0 1 2008

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	Lagoon
Lab Order:	0802030	**Collection Date:**	1/31/2008 11:38:00 AM
Project:	Butterfield Dairy	**Date Received:**	2/1/2008
Lab ID:	0802030-02	**Matrix:**	AQUEOUS

BUREAU

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	140	2.0		mg/L	20	2/1/2008 11:22:41 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	2/1/2008 11:22:41 PM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	2500	400		mg/L	1	2/5/2008
SM4500-NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	260	20		mg/L	1	2/7/2008

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		

(5)

DP-1331

SWAT Laboratory
New Mexico State University
Agronomy & Horticulture Department
Box 30003, Department 3Q
Las Cruces, NM 88003-8003

March 19, 2002

Butterfield Dairy
Attn: John Ligtenberg
11425 HWY 549 SE
Deming, NM 88030
544-0991

Below are the results of analysis of 1 sample received for examination on February 21, 2002:

Sample I.D. AB34334 Client Code: DRYBUTTR
Sample Description: Effluent Holding Pond
Sample collector: J LIGTENBERG
Sample collection date: 02/19/02 Time: 13:00
Lab submittal date: 02/21/02 Time: 16:56

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Chloride by Autoanalyzer	mg/L	128.4	2.5
Total Dissolved Solids	mg/L	1599	1
Nitrate/nitrite as N	mg/L	0.2	0.5
Water Kjeldahl Nitrogen-	mg/L	115	1
Total phosphorus	mg/L	25.2	2.5

Please advise should you have questions concerning these data.

Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

lowest ~~Highest~~ WW

DP-1331

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #0305051204

Date: 05/05/03

ANALYTICAL REPORT

To: Butterfield Dairy 544-0991
Attn: John Ligtenberg
11425 HWY 549 SE
Deming, NM 88030

Purchase Order #

Below are the results for submitted sample(s). (MDL=Method detection limit)

Sample I.D. AB46723

Sample Description: Effluent Holding Pond
Sample collection date: 04/07/03 Sample collection time: 13:00
Submittal date: 04/07/03 Submittal time: 16:12
WSS# Request ID No. Collector: J LIGTENBERG
Sample Purpose: Sampling Information:

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Chloride by Autoanalyzer	4500-Cl_D	150.1	mg/L	2.5	04/15/03	CAW
Total Dissolved Solids	160.2	1877	mg/L	1	04/16/03	BJH
Nitrate/nitrite as N	353.2	0.38	mg/L	0.25	04/30/03	CAW
Water Kjeldahl Nitrogen-Total	351.2	504.8	mg/L	20.0	04/14/03	CAW
phosphorus	EPA 365.2	38.01	mg/L	2.50	04/30/03	JH

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accredited by the American

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DP-1331

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Feb-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-3
Lab Order:	0802030	**Collection Date:**	1/31/2008 12:35:00 PM
Project:	Butterfield Dairy	**Date Received:**	2/1/2008
Lab ID:	0802030-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SLB
Chloride	48	1.0		mg/L	10	2/1/2008 9:20:50 PM
Nitrogen, Nitrate (As N)	34	1.0		mg/L	10	2/1/2008 9:20:50 PM
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	920	20		mg/L	1	2/5/2008
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/8/2008

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 GW, MW-3
pivot

DP-1331

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #031223409

Date: 12/23/03

ANALYTICAL REPORT

To: Butterfield Dairy 544-0991
Attn: John Ligtenberg
11425 Hwy 549 SE
Deming, NM 88030 Purchase Order #

Below are the results for submitted sample(s). (MDL=Method detection limit)

Sample I.D. AB55427 Depth 98'

Sample Description: Monitoring Well #1
Sample collection date: 12/10/03 Sample collection time: 16:00
Submittal date: 12/11/03 Submittal time: 09:30
WSS# Request ID No. Collector: E. LIGTENBERG
Sample Purpose: Sampling Information:

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Chloride by Autoanalyzer	4500-Cl_D	42.96	mg/L	2.5	12/17/03	CAW
Total Dissolved Solids	160.2	933	mg/L	1	12/17/03	BJH
Nitrate/nitrite as N	353.2	30.34	mg/L	2.50	12/16/03	CAW
Water Kjeldahl Nitrogen-	351.2	0.2	mg/L	0.1	12/19/03	CAW

Sample I.D. AB55428 Depth 97'

Sample Description: Monitoring Well #2
Sample collection date: 12/10/03 Sample collection time: 16:00
Submittal date: 12/11/03 Submittal time: 09:30
WSS# Request ID No. Collector: E. LIGTENBERG
Sample Purpose: Sampling Information:

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Chloride by Autoanalyzer	4500-Cl_D	38.9	mg/L	2.5	12/17/03	CAW
Total Dissolved Solids	160.2	813	mg/L	1	12/17/03	BJH
Nitrate/nitrite as N	353.2	28.82	mg/L	2.50	12/16/03	CAW
Water Kjeldahl Nitrogen-	351.2	0.1	mg/L	0.1	12/19/03	CAW

Highest GW, MW-1
upgradient

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Feb-08*

CLIENT:	Glorieta GeoScience	**Client Sample ID:**	MW-2
Lab Order:	0802030	**Collection Date:**	1/31/2008 12:04:00 PM
Project:	Butterfield Dairy	**Date Received:**	2/1/2008
Lab ID:	0802030-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	45	1.0		mg/L	10	2/1/2008 8:46:01 PM
Nitrogen, Nitrate (As N)	31	1.0		mg/L	10	2/1/2008 8:46:01 PM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	830	20		mg/L	1	2/5/2008
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/8/2008

Highest GW - MW-2
Syn. Lagoon

DP-1331

DP-1331

GROUND WATER

MAY 0 1 2008

BUREAU

all Environmental Analysis Laboratory, Inc.

Date: *11-Feb-08*

CLIENT: Glorieta GeoScience
Lab Order: 0802030
Project: Butterfield Dairy
Lab ID: 0802030-01

Client Sample ID: MW-1
Collection Date: 1/31/2008 11:22:00 AM
Date Received: 2/1/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	41	1.0		mg/L	10	2/1/2008 8:11:12 PM
Nitrogen, Nitrate (As N)	23	1.0		mg/L	10	2/1/2008 8:11:12 PM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	850	20		mg/L	1	2/5/2008
SM4500-NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/7/2008

upg. mw - mw-1 goes w/ highest nitrate in gw.

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