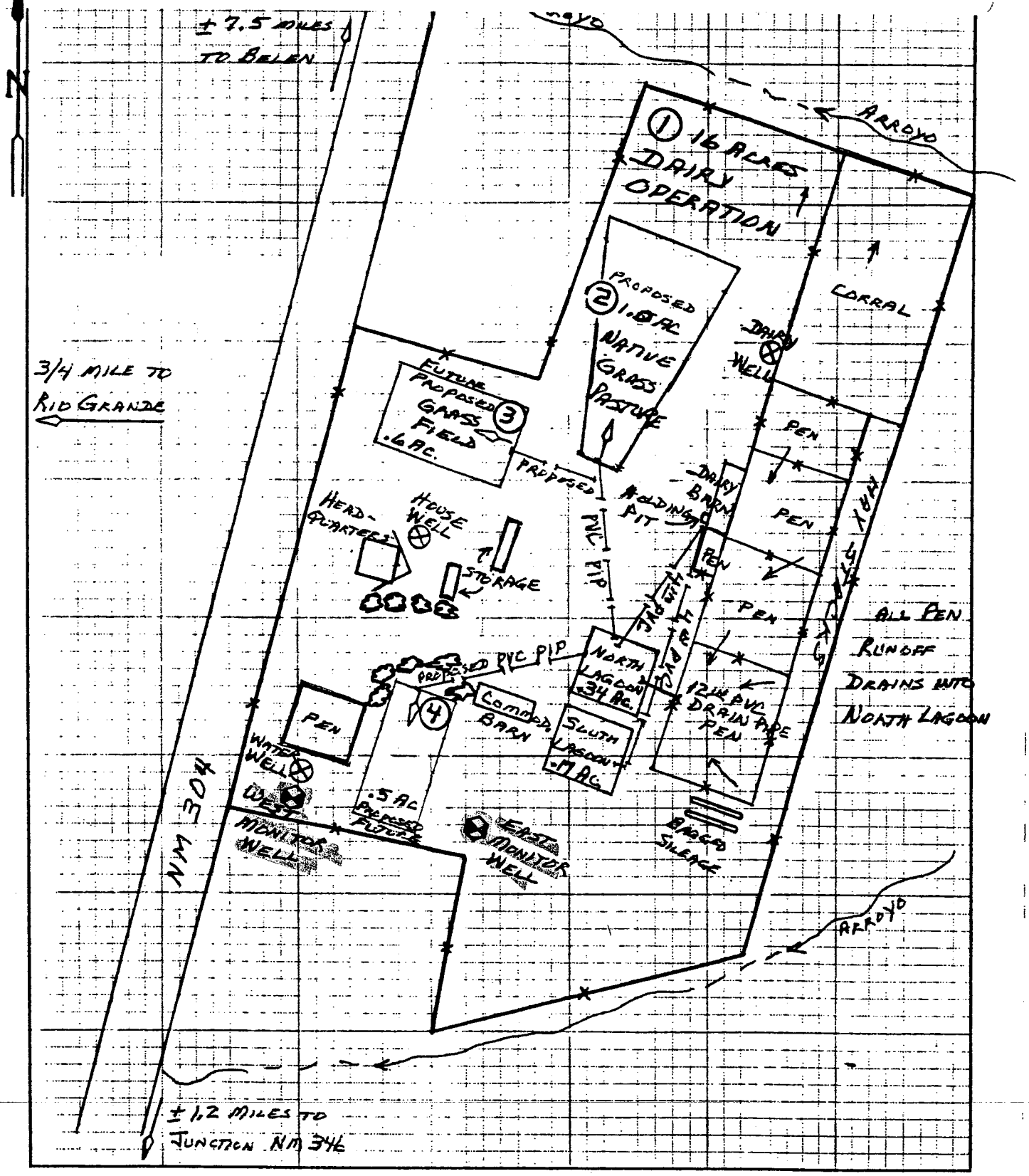
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS - CPA - 16
2 - 81

DP-885

CONSERVATION PLAN MAP

Owner ALLEN SÁNCHEZ Operator JERSEY GOLD DAIRY
County VALENCIA State NEW MEXICO Date 12/97
Approximate acres 18.6 Approximate scale 1" = 200'
Cooperating with VALENCIA SOIL & WATER Conservation District
Plan identification COMM #23-CASA COLORADA Photo number NAPP 3532 15 L
Assisted by CLIFF E. SÁNCHEZ USDA Soil Conservation Service



©1992 Franklin Quest Co. Printed in USA

MO 3702

USGS QUADS:

LATITUDE: 106°45'07"

DP- 885

~~6.a.ii.~~

Jersey Gold Dairy is a family-owned and operated milk producing facility, which is currently milking about 200 cows per day. Also on the farm are approximately 54 dry cows, about 36 spring heifers, around 40, 3-month to one-year-old heifers, and about 30 young heifer calves.

The nature of the business is such that not only do we produce milk, but we also produce wastewater, most of which originates in the milking parlor. The effluent coming from said parlor includes wash water and about 10% of the dairy's daily manure output plus some milk and the aforementioned pollutants. These pollutants are negligible as small amounts are used, they are quite dilute in their packaged form, and are diluted even further in the system.

As previously mentioned, approximately 1,000 gallons of wastewater is discharged from the parlor per day as is about 164 gallons of liquid manure per day.[1] The discharge water and manure flows from the milking parlor to a 390-gallon, cement holding tank where solids are allowed to settle before the water is released (through a 4" PVC pipe) to the 0.34-acre lagoon. The solids (manure) are then collected and stored for eventual removal by area farmers, who take the manure and use it on their fields for fertilizer. Once the water reaches the lagoons, it is then periodically, chemically treated with a biodegradable substance that digests sludge, manure and other solids that may wash into the lagoon. The water is then simply left to evaporate.

The lagoons have existed for years and were constructed to NRCS standards and specifications. ~~The ponds were sealed by gleization~~. Currently, both ponds are being utilized, with water having been pumped from the north, 0.34-acre pond to the south, 0.17-acre pond. This was done to accommodate wash water from the now defunct milk processing and bottling plant that operated on the property until 9/26/2003. It is expected that with the closing of the bottling plant, only the north pond will be utilized as discharge has significantly decreased.

Besides the wastewater from the milk parlor, there is also the runoff potential from the cattle corrals. According to previous studies[2], the dairy pens will have no manure-laden runoff leaving the site during a 24-hour, 25-year storm event. Depth of flow will be 0.9 to 1.3 inches. The dairy pens except for the northern-most corral, drain into the north, 0.34-acre pond, delivering 0.75 acre feet in a 100 year storm from five acres.[3] The northern-most pen drains to the north of the property, where earthen berms will be constructed to contain any potential runoff.

---

[1] The manure figure is based on 85lbs of manure excreted/cow/day minus 9.3lbs (solids)(0.9cow size factor—Jerseys are smaller than Holsteins)(10%)(200cows)/8.33lbs per gallon.

[2] Please see Waste Management System Plan prepared for the previous Jersey Gold Dairy owner, Alan Sanchez, enclosed herein, and which is in your files.

[3] Ibid.

DP-885

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#
04056-1	EAST WELL/404001-01	Liquid	04/02/04	03/31/04 16:15	
04056-2	WEST WELL/404001-02	Liquid	04/02/04	03/31/04 16:06	
04056-3	PIT/404001-03	Liquid	04/02/04	03/31/04 16:25	

Parameter	Units	Lab Sample IDs 04056-1	04056-2	04056-3
Total Kjeldahl Nitrogen-N (351.2)				
Total Kjeldahl Nitrogen-N	mg/l	<0.50	[redacted]	140
Dilution Factor		1	1	10
Prep Date		04/07/04	04/07/04	04/07/04
Analysis Date		04/09/04	04/09/04	04/09/04
Batch ID		TAW025	TAW025	TAW025
Prep Method		351.2	351.2	351.2
Analyst		CR	CR	CR
Total Dissolved Solids (160.1)				
Total Dissolved Solids	mg/l	280	[redacted]	1100
Dilution Factor		1	1	1
Analysis Date		04/02/04	04/02/04	04/02/04
Batch ID		TDW032	TDW032	TDW032
Analyst		ST	ST	ST
Nitrate-Nitrite, Nitrogen (353.2)				
Nitrate + Nitrite-N	mg/l	1.4	[redacted]	1.2
Nitrate-N	mg/l	1.4	1.5	1.2
Dilution Factor		1	1	1
Analysis Date		04/08/04	04/08/04	04/08/04
Batch ID		N3W034	N3W034	N3W034
Analyst		CR	CR	CR

EVERN TRENT 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#
04056-1	EAST WELL/404001-01	Liquid	04/02/04	03/31/04 16:15	
04056-2	WEST WELL/404001-02	Liquid	04/02/04	03/31/04 16:06	
04056-3	PIT/404001-03	Liquid	04/02/04	03/31/04 16:25	

Parameter	Units	Lab Sample IDs 04056-1	04056-2	04056-3
Nitrite-N (354.1)				
[redacted]	mg/l	[redacted]	<0.10	<0.10
Dilution Factor		1	1	1
Analysis Date		04/02/04	04/02/04	04/02/04
Batch ID		N2W056	N2W056	N2W056
Analyst		ST	ST	ST
Chloride (4500E)				
[redacted]	mg/l	[redacted]	31	85
Dilution Factor		1	1	1
Analysis Date		04/06/04	04/06/04	04/06/04
Batch ID		CKW029	CKW029	CKW029
Analyst		CR	CR	CR

DP-885

SEVERN TRENT 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#
12639-1	EAST WELL/312072-01	Liquid	12/20/03	12/18/03 15:55	
12639-2	WEST WELL/312072-02	Liquid	12/20/03	12/18/03 15:38	

Parameter	Units	Lab Sample IDs 12639-1	12639-2
Total Kjeldahl Nitrogen-N (351.2)			
Total Kjeldahl Nitrogen-N	mg/l	<0.50	<0.50
Dilution Factor		1	1
Prep Date		12/23/03	12/23/03
Analysis Date		12/26/03	12/26/03
Batch ID		TAW64D	TAW64D
Prep Method		351.2	351.2
Analyst		CR	CR
Total Dissolved Solids (160.1)			
Total Dissolved Solids	mg/l	300	350
Dilution Factor		1	1
Analysis Date		12/22/03	12/22/03
Batch ID		TDW108	TDW108
Analyst		ST	ST
Nitrate-Nitrite, Nitrogen (353.2)			
Nitrate + Nitrite-N	mg/l	1.6	1.4
Nitrate-N	mg/l	1.6	1.4
Dilution Factor		1	1
Analysis Date		12/23/03	12/23/03
Batch ID		N3W69A	N3W69A
Analyst		CR	CR

SEVERN TRENT 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#
12639-1	EAST WELL/312072-01	Liquid	12/20/03	12/18/03 15:55	
12639-2	WEST WELL/312072-02	Liquid	12/20/03	12/18/03 15:38	

Parameter	Units	Lab Sample IDs 12639-1	12639-2
Nitrite-N (354.1)			
~~Nitrite-N~~	~~mg/l~~	<0.10	~~<0.10~~
Dilution Factor		1	1
Analysis Date		12/20/03	12/20/03
Batch ID		N2W203A	N2W203A
Analyst		LV	LV
Chloride (4500E)			
~~Chloride~~	~~mg/l~~	23	~~30~~
Dilution Factor		1	1
Analysis Date		12/23/03	12/23/03
Batch ID		CKW093A	CKW093A
Analyst		CR	CR

DP-885

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#
10077-1	JERSEY GOLD EAST/310022-01	Liquid	10/03/03	10/01/03 15:06	
10077-2	~~JERSEY GOLD WEST/310022-02~~	Liquid	10/03/03	10/01/03 14:50	
10077-3	JERSEY GOLD PIT/310022-03	Liquid	10/03/03	10/01/03 15:30	

Parameter	Units	Lab Sample IDs 10077-1	10077-2	10077-3
Nitrate-Nitrite, Nitrogen (353.2)				
~~Nitrate + Nitrite-N~~	~~mg/l~~	1.3	~~1.3~~	1.6
Nitrate-N	mg/l	1.3	1.3	1.6
Dilution Factor		1	1	1
Analysis Date		10/06/03	10/06/03	10/06/03
Batch ID		N3W54B	N3W54B	N3W54B
Analyst		ST	ST	ST
Nitrite-N (354.1)				
~~Nitrite-N~~	~~mg/l~~	<0.10	~~<0.10~~	<0.10
Dilution Factor		1	1	1
Analysis Date		10/03/03	10/03/03	10/03/03
Batch ID		N2W160A	N2W160A	N2W160A
Analyst		ST	ST	ST
Chloride (4500E)				
~~Chloride~~	~~mg/l~~	22	~~20~~	160
Dilution Factor		1	1	10
Analysis Date		10/04/03	10/04/03	10/04/03
Batch ID		CKW068A	CKW068A	CKW068A
Analyst		CR	CR	CR
Total Kjeldahl Nitrogen-N (351.2)				
~~Total Kjeldahl Nitrogen-N~~	~~mg/l~~	0.58	~~1.1~~	91
Dilution Factor		1	1	5
Prep Date		10/10/03	10/10/03	10/10/03
Analysis Date		10/14/03	10/14/03	10/14/03
Batch ID		TAW53N	TAW53N	TAW53N
Prep Method		351.2	351.2	351.2
Analyst		CR	CR	CR

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#
10077-1	JERSEY GOLD EAST/310022-01	Liquid	10/03/03	10/01/03 15:06	
10077-2	JERSEY GOLD WEST/310022-02	Liquid	10/03/03	10/01/03 14:50	
10077-3	JERSEY GOLD PIT/310022-03	Liquid	10/03/03	10/01/03 15:30	

Parameter	Units	Lab Sample IDs 10077-1	10077-2	10077-3
Total Dissolved Solids (160.1)				
Total Dissolved Solids	mg/l	290	340	2000
Dilution Factor		1	1	1
Analysis Date		10/06/03	10/06/03	10/06/03
Batch ID		TDW082	TDW082	TDW082
Analyst		ST	ST	ST

DP-885

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C3-01045
Received: 04 JAN 03
Reported: 14 JAN 03

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 301006; JERS
Sampled By: Client
Code: 084730114

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
01045-1	EAST WELL/301006-01	01-02-03/15:35
~~01045-2~~	~~WEST WELL/301006-02~~	01-02-03/15:08

PARAMETER	01045-1	01045-2
Nitrate-Nitrite, Nitrogen (353.2)		
~~Nitrate + Nitrite-N, mg/l~~	2.7	~~1.6~~
Nitrate-N, mg/l	2.7	1.6
Dilution Factor	1	1
Analysis Date	01.07.03	01.07.03
Batch ID	N3W01A	N3W01A
Analyst	CR	CR
~~Nitrite-N (354.1), mg/l~~	<0.10	~~<0.10~~
Dilution Factor	1	1
Analysis Date	01.04.03	01.04.03
Batch ID	N2W001	N2W001
Analyst	ST	ST
~~Chloride (4500E), mg/l~~	31	~~18~~
Dilution Factor	1	1
Analysis Date	01.07.03	01.07.03
Batch ID	CKW002A	CKW002A
Analyst	CR	CR

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C3-01045
Received: 04 JAN 03
Reported: 14 JAN 03

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 301006; JERS
Sampled By: Client
Code: 084730114
Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
01045-1	EAST WELL/301006-01	01-02-03/15:35
~~01045-2~~	~~WEST WELL/301006-02~~	01-02-03/15:08

PARAMETER	01045-1	01045-2
~~Total Kjeldahl Nitrogen N (351.2), mg/l~~	0.63	~~1.2~~
Dilution Factor	1	1
Prep Date	01.06.03	01.06.03
Analysis Date	01.07.03	01.07.03
Batch ID	TAW01A	TAW01A
Prep Method	351.2	351.2
Analyst	CR	CR
~~Total Dissolved Solids (160.1), mg/l~~	300	~~200~~
Dilution Factor	1	1
Analysis Date	01.06.03	01.06.03
Batch ID	TDW001	TDW001
Analyst	ST	ST

DP-885

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C3-01045
Received: 04 JAN 03
Reported: 14 JAN 03

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 301006; JERS
Sampled By: Client
Code: 084730114

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
~~01045-1~~	~~EAST WELL/301006-01~~	01-02-03/15:35
01045-2	WEST WELL/301006-02	01-02-03/15:08

PARAMETER	01045-1	01045-2
~~Nitrate-Nitrite-Nitrogen (353.2)~~		
Nitrate + Nitrite-N, mg/l	~~2.7~~	1.6
Nitrate-N, mg/l	2.7	1.6
Dilution Factor	1	1
Analysis Date	01.07.03	01.07.03
Batch ID	N3W01A	N3W01A
Analyst	CR	CR
~~Nitrite-N (354.1), mg/l~~	~~<0.10~~	<0.10
Dilution Factor	1	1
Analysis Date	01.04.03	01.04.03
Batch ID	N2W001	N2W001
Analyst	ST	ST
~~Chloride (4500B), mg/l~~	~~21~~	48
Dilution Factor	1	1
Analysis Date	01.07.03	01.07.03
Batch ID	CKW002A	CKW002A
Analyst	CR	CR

N.B. highest
NO_3-N MW-East

Lagoon

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C3-01045
Received: 04 JAN 03
Reported: 14 JAN 03

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 301006; JERS
Sampled By: Client
Code: 084730114
Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
~~01045-1~~	~~EAST WELL/301006-01~~	
01045-2	WEST WELL/301006-02	01-02-03/15:35 01-02-03/15:08

PARAMETER	01045-1	01045-2
~~Total Kjeldahl Nitrogen N (351.2), mg/l~~	~~0.63~~	1.3
Dilution Factor	1	1
Prep Date	01.06.03	01.06.03
Analysis Date	01.07.03	01.07.03
Batch ID	TAW01A	TAW01A
Prep Method	351.2	351.2
Analyst	CR	CR
~~Total Dissolved Solids (160.1), mg/l~~	~~500~~	390
Dilution Factor	1	1
Analysis Date	01.06.03	01.06.03
Batch ID	TDW001	TDW001
Analyst	ST	ST

DP-885

Water samples from the monitoring wells were analyzed for chlorides (EPA 300.0), nitrates/nitrites (EPA 300.0), total dissolved solids (EPA 160.1), and total Kjeldhal nitrogen (EPA 351.3). The analyses were conducted by Hall Environmental Analysis Laboratory in Albuquerque. Table 2 presents results of laboratory analyses of water samples.

Table 2 - Ground Water Sample Analysis Results

Parameter	Well	
	MW-East	MW-West
Chloride	18 mg/L	46 mg/L
Nitrate	1.0 mg/L	2.0 mg/L
Nitrite	none detected	none detected
Total Dissolved Solids	286 mg/L	480 mg/L
Total Kjeldhal Nitrogen	2.0 mg/L	none detected

Geo-Test appreciates the opportunity to be of service to you. If you have any questions or if we can be of further service, please call us in our Albuquerque office at (505) 857-0933.

Sincerely,
Geo-Test, Inc.

John R. Dickey
Environmental Services Manager

N.B. highest NO_3-N MW-west
no lab report

copies to: Addressee (3)

GEO-TEST, INC.
3204 RICHARDS LANE
SANTA FE,
NEW MEXICO
87505
(505) 471-1101
FAX (505) 471-2245

8904 WASHINGTON, NE
ALBUQUERQUE,
NEW MEXICO
87113
(505) 857-0933
FAX (505) 857-0803

2805-A LAS VEGAS CT.
LAS CRUCES
NEW MEXICO
88005
(505) 526-6260
FAX (505) 523-1660

DP-885

APR 0 2005

State of New Mexico

SCIENTIFIC LABORATORY DIVISION

Department of Health

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
(505) 841-2500

WATER CHEMISTRY SECTION (505) 841-2555

Sample Collection Date: 3/23/2005 **Time:** 14:40 **By:** HOMER
Sampling Location: JERSEY GOLD DAIRY LAGOON
Sample Type: ww

SLD No.: WC-200500562

Request ID No.:	2371647
Received at SLD:	3/29/2005
User:	55410
Subm:	541
WSS #:	0

This Copy of Report for:

NMED - Ground Water Pollution Prevention Section

P.O. Box 26110
Santa Fe, NM 87502

Distribution to:
NMED Ground Water Section {U}
NMED - Ground Water Pollution Prevention Secti

Water Chemistry Section - File Copy

ANALYTICAL RESULTS

Analyte	Result	Units	Analysis Date	EPA Method No.	Minimum Level	Dilution Factor	Sample Det. Limit	Analyst	Data Qualifier
Nitrate + Nitrite	<0.1	mG/L	4/12/2005	353.2	0.1	1	0.1	Chet Markham	
TKN	332	mG/L	4/4/2005	351.2	0.1	100	10	Jeff Robb	

Laboratory Comments:

Reviewed by Chris Dean
Supervisor, Water Chemistry Section

Date Printed: 15-Apr-05

Data Qualifier Codes and Definitions

- **A** - See comments section below
- **D** - Spike recovery <80% or >120%
- **F** - Matrix interference suspected
- **G** - Inconsistent results, suggest re-sampling
- **H** - Sample analyzed in duplicate
- **J** - Estimated quantity only, analyte was detected at a level below which an accurate Quantitation can be given
- **K** - Holding time exceeded at laboratory
- **L** - Result for this analyte equals or exceeds EPA MCL
- **M** - Result for this analyte equals or exceeds EPA action level
- **N** - Insufficient sample to verify results
- **P** - Sample rejected/ voided at laboratory
- **Q** - Sample submitted to laboratory past holding time
- **V** - External control value <80% or >120% of theoretical value
- **W** - Ion balance criteria exceeded
- **X** - Daily control value <80% or >120% of theoretical value

Copy

State of New Mexico

SCIENTIFIC LABORATORY DIVISION

Department of Health

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
(505) 841-2500

WATER CHEMISTRY SECTION (505) 841-2555

Sample Collection Date: 3/23/2005 **Time:** 14:40 **By:** HOMER
Sampling Location: JERSEY GOLD DAIRY LAGOON
Sample Type: ww

SLD No.: WC-200500565

Request ID No.:	2371648
Received at SLD:	3/29/2005
User:	55410
Subm:	541
WSS #:	0

This Copy of Report for:

NMED Ground Water Section
GW Protection and Remediation Bur.
P.O. Box 26110
Santa Fe, NM 87502

Distribution to:
NMED Ground Water Section {U}
NMED - Ground Water Pollution Prevention Secti

Water Chemistry Section - File Copy

ANALYTICAL RESULTS

Analyte	Result	Units	Analysis Date	EPA Method No.	Minimum Level	Dilution Factor	Sample Det. Limit	Analyst	Data Qualifier
Chloride	414	mG/L	4/19/2005	300.0	10	25	10	Chris Dean	
TDS	4160	mG/L	4/4/2005	160.1	10	1	10	Chris Paul	

Laboratory Comments:

Reviewed by Chris Dean
Supervisor, Water Chemistry Section

Date Printed: 29-Apr-05

Data Qualifier Codes and Definitions

A - See comments section below
D - Spike recovery <80% or >120%
F - Matrix interference suspected
G - Inconsistent results, suggest re-sampling
H - Sample analyzed in duplicate
J - Estimated quantity only, analyte was detected at a level below which an accurate Quantitation can be given
K - Holding time exceeded at laboratory
L - Result for this analyte equals or exceeds EPA MCL
M - Result for this analyte equals or exceeds EPA action level
N - Insufficient sample to verify results
P - Sample rejected/ voided at laboratory
Q - Sample submitted to laboratory past holding time
V - External control value <80% or >120% of theoretical value
W - Ion balance criteria exceeded
X - Daily control value <80% or >120% of theoretical value

MAY 2 5 2005

DP-885

SEVERN TRENT STL

Analytical Data

Client: Pinnacle Laboratories

Job Number: 400-1590.1

General Chemistry

Client Sample ID: **EAST WELL/504062-01**

Lab Sample ID: 400-1590-1
Client Matrix: Water

Date Sampled: 04/10/2005 1510
Date Received: 04/12/2005 1000

Analyte	Result	Qual	Units	RL	Dil	Method	Anly Batch	Date Analyzed
Chloride	20		mg/L	2.0	1.0	325.2	400-3954	04/13/2005 0844
Nitrogen, Kjeldahl	<0.50		mg/L	0.50	1.0	351.2	400-4439	04/21/2005 0911
				Prep Batch: 400-4438			Date Prepared:	04/15/2005 1040
Nitrogen, Nitrate	1.2		mg/L	0.10	1.0	353.2	400-4193	04/15/2005 0935
Nitrogen, Nitrate Nitrite	1.2		mg/L	0.10	1.0	353.2	400-4193	04/15/2005 0935
Nitrogen, Nitrite	<0.10		mg/L	0.10	1.0	353.2	400-4193	04/15/2005 0935
Nitrogen, Nitrite	<0.10		mg/L	0.10	1.0	354.1	400-4388	04/12/2005 1156

Analyte	Result	Qual	Units	RL	Dil	Method	Anly Batch	Date Analyzed
Total Dissolved Solids	270		mg/L	5.0	1.0	160.1	400-4489	04/15/2005 0840

Client Sample ID: **LAGOON/504062-02**

N.B. lowest TKN

Lab Sample ID: 400-1590-2
Client Matrix: Water

Date Sampled: 04/10/2005 1530
Date Received: 04/12/2005 1000

Analyte	Result	Qual	Units	RL	Dil	Method	Anly Batch	Date Analyzed
Chloride	460		mg/L	20	10	325.2	400-3954	04/13/2005 0844
Nitrogen, Kjeldahl	140		mg/L	13	5.0	351.2	400-4439	04/21/2005 0911
				Prep Batch: 400-4438			Date Prepared:	04/15/2005 1040
Nitrogen, Nitrate	0.43		mg/L	0.10	1.0	353.2	400-4193	04/15/2005 0935
Nitrogen, Nitrate Nitrite	0.42		mg/L	0.10	1.0	353.2	400-4193	04/15/2005 0935
Nitrogen, Nitrite	<0.10		mg/L	0.10	1.0	353.2	400-4193	04/15/2005 0935
Nitrogen, Nitrite	<0.10		mg/L	0.10	1.0	354.1	400-4388	04/12/2005 1156

Analyte	Result	Qual	Units	RL	Dil	Method	Anly Batch	Date Analyzed
Total Dissolved Solids	3800		mg/L	5.0	1.0	160.1	400-4489	04/15/2005 0840

DP-885

SEVERN TRENT STL

Analytical Data

Client: Pinnacle Laboratories

Job Number: 400-6495-1

General Chemistry

Client Sample ID: EAST WELL/510252-01

Lab Sample ID: 400-6495-1
Client Matrix: Water

Date Sampled: 10/27/2005 1630
Date Received: 10/29/2005 1150

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	24		mg/L	2.0	1.0	325.2
	Anly Batch: 400-15765	Date Analyzed 11/01/2005 0907				
Nitrogen, Kjeldahl	<0.50		mg/L	0.50	1.0	351.2
	Anly Batch: 400-16025	Date Analyzed 11/07/2005 1254				
	Prep Batch: 400-16019	Date Prepared: 11/04/2005 1405				
Nitrogen, Nitrate	1.1		mg/L	0.10	1.0	353.2
	Anly Batch: 400-15600	Date Analyzed 10/31/2005 1009				
Nitrogen, Nitrite	<0.10		mg/L	0.10	1.0	354.1
	Anly Batch: 400-15757	Date Analyzed 10/29/2005 1238				

Analyte	Result	Qual	Units	RL	Dil	Method
Total Dissolved Solids	280		mg/L	5.0	1.0	160.1
	Anly Batch: 400-15862	Date Analyzed 11/02/2005 1251				

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407 - 339 - 5984 Fax 407 - 260 - 6110 www.flowerslabs.com
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772 - 343 - 8006 Fax 772 - 343 - 8089

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 506243
Client Project #: TGA
Date Sampled: Jun 24, 2005; 02:11 PM
Jul 7, 2005; Invoice: 12997G05

Analysis Report

Lab #: 12997 Desc: East Well/506243-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	1.57	mg/L	1.00	0.200					
NO3+NO2(as N)	0.978	mg/L	1.00	0.0100		10046427	EPA353.1	I-005	06/28/05
Chloride	20.6	mg/L	1.00	0.300		10046443	EPA325.2	16887-00-6	06/29/05
TDS	258	mg/L	1.00	2.50		10046695	EPA160.1	10-33-3	06/30/05
TKN(as N)	0.591	mg/L	1.00	0.200		10046696	EPA351.2	7727-37-9	07/01/05

DP-885

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407 - 339 - 5984 Fax 407 - 260 - 6110 www.flowerslabs.com
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772 - 343 - 8006 Fax 772 - 343 - 8089
P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 710137
Client Project #: JGA
Date Sampled: Oct 10, 2007
Oct 30, 2007; Invoice: 50601

Analysis Report

Lab #: 50601GW1 Sampled: 10/10/07 02:11 PMDesc: East Well/710137-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	324	mg/L	1.00	2.50	5.00	10091480	SM2540C	10-33-3	10/15/07
TKN(as N)	1.85	mg/L	1.00	0.200	0.400	10091664	EPA351.2	7727-37-9	10/19/07
Chloride	23.5	mg/L	1.00	5.00	10.0	10091670	SM4500CIE	16887-00-6	10/20/07
NO3+NO2(as N)	1.47	mg/L	1.00	0.0500	0.100	10092344	EPA353.2	I-005	10/29/07

Lab #: 50601WW1 Sampled: 10/10/07 02:00 PMDesc: Lagoon/710137-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	5190	mg/L	1.00	2.50	5.00	10091480	SM2540C	10-33-3	10/15/07
TKN(as N)	460	mg/L	79.8	16.0	31.9	10091664	EPA351.2	7727-37-9	10/19/07
Chloride	545	mg/L	40.0	200	400	10091670	SM4500CIE	16887-00-6	10/20/07
NO3+NO2(as N)	0.290	mg/L	1.00	0.0500	0.100	10092344	EPA353.2	I-005	10/29/07

N.B. highest TKN

4

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407 - 339 - 5984 Fax 407 - 260 - 6110 www.flowerslabs.com
8253 South U.S. Highway 1, Port St. Lucie, FL 34952-2860 Phone 772 - 343 - 8006 Fax 772 - 343 - 8089

DP. 885
5.1.06 (stamp date)

Pinnacle LaboratoriesDW
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 603104
Client Project #: JGA
Date Sampled: Mar 28, 2006
Apr 17, 2006; Invoice: 13118

Analysis Report

Lab #: 13118GW1 Sampled: 03/28/06 02:22 PMDesc: East Well/603104-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	302	mg/L	1.00	2.50	5.00	10058710	EPA160.1	10-33-3	03/31/06
Nitrate(as N)	1.24	mg/L	2.00	0.0200	0.0400	10058917	EPA300.0	14797-55-8	04/05/06 04:31 PM
Nitrite(as N)	0.0300 U	mg/L	1.00	0.0300	0.0600	10058920	EPA300.0	14797-65-0	04/05/06 04:31 PM
TKN(as N)	0.711	mg/L	1.00	0.200	0.400	10059456	EPA351.2	7727-37-9	04/07/06
Chloride	21.0	mg/L	1.00	0.500	1.00	10059662	EPA325.2	16887-00-6	04/06/06

Lab #: 13118WW1 Sampled: 03/28/06 02:30 PMDesc: Lagoon/603104-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	7870	mg/L	1.00	2.50	5.00	10058710	EPA160.1	10-33-3	03/31/06
Nitrate(as N)	0.0697	mg/L	1.00	0.0100	0.0200	10058713	NO3	14797-55-8	03/29/06 05:50 PM
Nitrite(as N)	0.337	mg/L	1.00	0.0300	0.0600	10058715	EPA354.1	14797-65-0	03/29/06 05:50 PM
Chloride	2200	mg/L	70.0	35.0	70.0	10059731	EPA325.2	16887-00-6	04/06/06
TKN(as N)	453	mg/L	100	20.0	40.0	10059775	EPA351.2	7727-37-9	04/17/06

SERVICES

STL Pensacola

LOG NO: C3-01045
Received: 04 JAN 03
Reported: 14 JAN 03

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: 301006; JERS
Sampled By: Client
Code: 084730114

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
01045-1	EAST WELL/301006-01	01-02-03/15:35
01045-2	WEST WELL/301006-02	01-02-03/15:08

PARAMETER	01045-1	01045-2
Nitrate-Nitrite, Nitrogen (353.2)		
Nitrate + Nitrite-N, mg/l	2.7	1.6
Nitrate-N, mg/l	2.7	1.6
Dilution Factor	1	1
Analysis Date	01.07.03	01.07.03
Batch ID	N3W01A	N3W01A
Analyst	CR	CR
Nitrite-N (354.1), mg/l	<0.10	<0.10
Dilution Factor	1	1
Analysis Date	01.04.03	01.04.03
Batch ID	N2W001	N2W001
Analyst	ST	ST
Chloride (4500E), mg/l	31	48
Dilution Factor	1	1
Analysis Date	01.07.03	01.07.03
Batch ID	CKW002A	CKW002A
Analyst	CR	CR