Hall Environmental Analysis Laboratory, Inc.

Date: *21-Oct-09*

CLIENT: Estes Sampling Service
Lab Order: 0910238
Project: 3-V Dairy
Lab ID: 0910238-01

Client Sample ID: MW-1
Collection Date: 10/12/2009 11:19:00 AM
Date Received: 10/13/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **LJB**
EPA METHOD 300.0: ANIONS						
Chloride	320	2.0		mg/L	20	10/13/2009 9:02:15 PM
Nitrogen, Nitrate (As N)	44	0.50		mg/L	5	10/13/2009 8:44:50 PM
						Analyst: **MMS**
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	4300	20.0		mg/L	1	10/19/2009 5:00:00 PM
						Analyst: **KS**
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	10/15/2009 3:33:00 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: *21-Oct-09*

CLIENT: Estes Sampling Service
Lab Order: 0910238
Project: 3-V Dairy
Lab ID: 0910238-02

Client Sample ID: MW-2
Collection Date: 10/12/2009 11:52:00 AM
Date Received: 10/13/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	520	5.0		mg/L	50	10/13/2009 9:37:03 PM
Nitrogen, Nitrate (As N)	8.2	0.10		mg/L	1	10/13/2009 9:19:39 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	4290	100		mg/L	1	10/19/2009 5:00:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	1.8	1.0		mg/L	1	10/15/2009 3:33:00 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: *21-Oct-09*

CLIENT: Estes Sampling Service
Lab Order: 0910238
Project: 3-V Dairy
Lab ID: 0910238-03

Client Sample ID: MW-3
Collection Date: 10/12/2009 10:54:00 AM
Date Received: 10/13/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	160	2.0		mg/L	20	10/13/2009 10:46:41 PM
Nitrogen, Nitrate (As N)	41	0.50		mg/L	5	10/13/2009 10:29:17 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	2770	20.0		mg/L	1	10/19/2009 5:00:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	10/15/2009 3:33:00 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: *21-Oct-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0910238	**Collection Date:**	10/12/2009 12:21:00 PM
Project:	3-V Dairy	**Date Received:**	10/13/2009
Lab ID:	0910238-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	190	5.0		mg/L	50	10/13/2009 11:21:29 PM
Nitrogen, Nitrate (As N)	82	5.0		mg/L	50	10/13/2009 11:21:29 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	3520	20.0		mg/L	1	10/19/2009 5:00:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	10/15/2009 3:33:00 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: *04-Aug-09*

CLIENT: Estes Sampling Service
Lab Order: 0907530
Project: 3-V Dairy
Lab ID: 0907530-01

Client Sample ID: MW-1
Collection Date: 7/28/2009 1:41:00 PM
Date Received: 7/29/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	300	2.0		mg/L	20	7/29/2009 6:33:49 PM
Nitrogen, Nitrate (As N)	36	1.0		mg/L	10	7/29/2009 6:16:24 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	4370	40.0		mg/L	1	7/31/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	7/31/2009

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: *04-Aug-09*

CLIENT: Estes Sampling Service
Lab Order: 0907530
Project: 3-V Dairy
Lab ID: 0907530-02

Client Sample ID: MW-2
Collection Date: 7/28/2009 3:05:00 PM
Date Received: 7/29/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	500	5.0		mg/L	50	7/29/2009 7:08:38 PM
Nitrogen, Nitrate (As N)	36	1.0		mg/L	10	7/29/2009 6:51:14 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	4310	40.0		mg/L	1	7/31/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	7/31/2009

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: *04-Aug-09*

CLIENT: Estes Sampling Service
Lab Order: 0907530
Project: 3-V Dairy
Lab ID: 0907530-03

Client Sample ID: MW-3
Collection Date: 7/28/2009 2:20:00 PM
Date Received: 7/29/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	160	1.0		mg/L	10	7/29/2009 8:00:53 PM
Nitrogen, Nitrate (As N)	34	1.0		mg/L	10	7/29/2009 8:00:53 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	2740	20.0		mg/L	1	7/31/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	7/31/2009

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: *04-Aug-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0907530	**Collection Date:**	7/28/2009 3:40:00 PM
Project:	3-V Dairy	**Date Received:**	7/29/2009
Lab ID:	0907530-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	220	2.0		mg/L	20	7/29/2009 8:18:17 PM
Nitrogen, Nitrate (As N)	110	2.0		mg/L	20	7/29/2009 8:18:17 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	7400	40.0		mg/L	1	7/31/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	7/31/2009

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: *07-May-09*

CLIENT: Estes Sampling Service
Lab Order: 0904345
Project: 3-V Dairy
Lab ID: 0904345-01

Client Sample ID: MW-1
Collection Date: 4/21/2009 1:02:00 PM
Date Received: 4/22/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: IC
Chloride	360	1.0		mg/L	10	4/22/2009 3:04:49 PM
Nitrogen, Nitrate (As N)	23	1.0		mg/L	10	4/22/2009 3:04:49 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4100	40	H	mg/L	1	5/6/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	4/24/2009

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: *07-May-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-2
Lab Order:	0904345	**Collection Date:**	4/21/2009 2:10:00 PM
Project:	3-V Dairy	**Date Received:**	4/22/2009
Lab ID:	0904345-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TES**
Chloride	570	2.0		mg/L	20	4/30/2009 6:48:25 PM
Nitrogen, Nitrate (As N)	32	1.0		mg/L	10	4/22/2009 3:39:39 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JMP**
Total Dissolved Solids	4200	100		mg/L	1	4/24/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	4/24/2009

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: *07-May-09*

CLIENT: Estes Sampling Service
Lab Order: 0904345
Project: 3-V Dairy
Lab ID: 0904345-03

Client Sample ID: MW-3
Collection Date: 4/21/2009 1:36:00 PM
Date Received: 4/22/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: IC
EPA METHOD 300.0: ANIONS						
Chloride	160	1.0		mg/L	10	4/22/2009 4:14:29 PM
Nitrogen, Nitrate (As N)	31	1.0		mg/L	10	4/22/2009 4:14:29 PM
						Analyst: JMP
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	2700	20		mg/L	1	4/24/2009
						Analyst: KMS
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	4/24/2009

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: *07-May-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0904345	**Collection Date:**	4/21/2009 2:40:00 PM
Project:	3-V Dairy	**Date Received:**	4/22/2009
Lab ID:	0904345-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **IC**
Chloride	240	1.0		mg/L	10	4/22/2009 4:49:19 PM
Nitrogen, Nitrate (As N)	130	1.0		mg/L	10	4/22/2009 4:49:19 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JMP**
Total Dissolved Solids	3900	100		mg/L	1	4/24/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	4/24/2009

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: *29-Jan-09*

CLIENT: Estes Sampling Service
Lab Order: 0901323
Project: 3-V Dairy
Lab ID: 0901323-01

Client Sample ID: MW-1
Collection Date: 1/22/2009 11:56:00 AM
Date Received: 1/23/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	570	2.0		mg/L	20	1/26/2009 5:08:22 PM
Nitrogen, Nitrate (As N)	34	1.0		mg/L	10	1/23/2009 12:31:30 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4400	200		mg/L	1	1/26/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	1/26/2009

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: *29-Jan-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-2
Lab Order:	0901323	**Collection Date:**	1/22/2009 10:33:00 AM
Project:	3-V Dairy	**Date Received:**	1/23/2009
Lab ID:	0901323-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	470	2.0		mg/L	20	1/23/2009 1:41:09 PM
Nitrogen, Nitrate (As N)	35	1.0		mg/L	10	1/23/2009 1:23:44 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4400	200		mg/L	1	1/26/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	1/26/2009

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: *29-Jan-09*

CLIENT: Estes Sampling Service
Lab Order: 0901323
Project: 3-V Dairy
Lab ID: 0901323-03

Client Sample ID: MW-3
Collection Date: 1/22/2009 11:20:00 AM
Date Received: 1/23/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: RAGS
EPA METHOD 300.0: ANIONS						
Chloride	170	1.0		mg/L	10	1/23/2009 1:58:34 PM
Nitrogen, Nitrate (As N)	34	1.0		mg/L	10	1/23/2009 1:58:34 PM
						Analyst: KMS
SM 2540 C: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	2600	200		mg/L	1	1/26/2009
						Analyst: TAF
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	1/26/2009

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: *29-Jan-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0901323	**Collection Date:**	1/22/2009 12:32:00 PM
Project:	3-V Dairy	**Date Received:**	1/23/2009
Lab ID:	0901323-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	250	1.0		mg/L	10	1/23/2009 2:15:58 PM
Nitrogen, Nitrate (As N)	100	1.0		mg/L	10	1/23/2009 2:15:58 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	3700	200		mg/L	1	1/26/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	1/26/2009

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-191

Hall Environmental Analysis Laboratory, Inc.

Date: *07-May-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0904345	**Collection Date:**	4/21/2009 2:40:00 PM
Project:	3-V Dairy	**Date Received:**	4/22/2009
Lab ID:	0904345-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **IC**
Chloride	240	1.0		mg/L	10	4/22/2009 4:49:19 PM
Nitrogen, Nitrate (As N)	130	1.0		mg/L	10	4/22/2009 4:49:19 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JMP**
Total Dissolved Solids	3900	100		mg/L	1	4/24/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	4/24/2009

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		

Highest GW: MW-4
LAA

DP-791

Advanced Analysis, Inc.

5601 19th Street Lubbock, Texas 79407 P.O. Box 16652 Lubbock,Texas 79490
Tel: (806) 796-2805 Fax : (806) 796-2825

RECEIVED
AUG 3 1 2004

ANALYTICAL RESULTS FOR
COWBELL TESTING
ATTN: AMY MUNSON
P. O. BOX 310
HAGERMAN, NM 88232
PHONE: (505) 752-0939

Receiving Date: 07/12/04
Reporting Date: 07/26/04
Project Number: DP-
Project Name: 3V DAIRY
Project Location: ROSWELL, NM

Sampling Date: 07/10/04
Sample Type: WELL H_2O, WASTE H_2O
Sample Condition: COOL & INTACT
Sample Received By: MR
Analyzed By: RG, NM

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Chlorides (mg/L)	TKN (mg/L)	NO_3-NO_2-N (mg/L)
Date Analysis Batch Started:		07/15/04	07/20/04	07/15/04	07/15/04
Time Analysis Batch Started:		9:45	13:20	15:00	13:32
AI7771-1	MW 1	3170	210	< 0.2 *	27.8
AI7771-2	MW 2	3815	295	< 0.2 *	21.6
AI7771-3	MW 3	4005	355	0.2	57.7
AI7771-4	MW 4	3395	220	< 0.2 *	44.5
AI7771-5	LAGOON	1580	180	69	0.04
Date Analysis Batch Finished:		07/16/04	07/20/04	07/16/04	07/15/04
Time Analysis Batch Finished:		10:15	16:50	16:30	17:05
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		994	51	4.98	0.5472
True Value QC		1000	50	5.00	0.5000
% Instrument Accuracy		99	102	100	109
% Extraction Accuracy		N/A	99	99	93
Relative Percent Difference		1	2	2	11
METHODS: EPA 600/4-79-020,		160.1	4500B-Cl^-	351.4	353.3

*Less than the Minimum Detection Limit.

Mario Rodriguez

Mario Rodriguez, Director.

07/26/04

Date

Highest GW. MW-3
Lagoon

DP-791

D38
99-298-D136-D140
ed 10-23-99
pled 1300
ceived 10-25-99
Received 1038
Reported 11-9-99

LABORATORY REPORT

City of Roswell Water & Waste Water Laboratory
2306 East College Street
PO Drawer 1838
Roswell, NM 88201, 88202-1838
Phone (505) 624-6752
FAX: (505) 624-6940

Sample Taken By: Cowbell Testing - Cherri Snyder
Sample Source South Springs Dairy DP - 791

Bill To: South Springs Dairy
4207 Graves Rd.
Roswell, NM 88201

Copies To: Mr. Charlie Sparnon Utilities Director
Cowbell Testing
106 Tierra Berrenda Dr.
Roswell, NM 88201

Type of Sample; Grab__X__,Flow Comp.____,Time Comp.____
Flow weighted Time Comp.____

Sample Location: Monitoring Wells & Lagoon

Analyte / Sample Description →	Date Analyzed	MW #1 D136	MW #2 D137	MW #3 D138	MW #4 D139	Lagoon D140	Method Detection Limit	Unit Price	Total Price	Method Reference
Calcium (Ca) mg/L										EPA 315.2
Total Hardness (CaCO3) mg/L										EPA 130.2
Magnesium (Mg) mg/L										SM 3500 E
Chloride (Cl) mg/L	10-31-99	162	229	297	220		0.8mg/L	$12.00	$48.00	EPA 325.3
Sulfate (SO4) mg/L										ASTM D 151-68B
Bicarbonate (HCO3) mg/L										SM 2320
Carbonate (CO3) mg/L										SM 2320
Alkalinity as (CaCO3) mg/L										SM 2320
Sodium (Na) mg/L										EPA 273.1
Potassium (K) mg/L										EPA 258.1
pH (pH units)										SM 4500
Conductivity 25 Degrees C mmhos										SM 2510
Dissolved Solids Evap. mg/L	10-27-99	3170	3610	3620	3640		10mg/L	$15.00	$60.00	SM 2450 C
Nitrates (NO3-N)&(NO2-N) mg/L	11-8-99	14.1	43.4	9.24	43.4	0.06	0.03mg/L	$30.00	$150.00	EPA 353.3
Nitrate (NO3-N) mg/L										EPA 353.3
Nitrite (NO2-N) mg/L										EPA 353.3
TKN-N mg/L	11-6-99	1.4	1.4	1.9	0.9	237	0.3mg/L	$30.00	$150.00	EPA 351.3
Ammonia (NH3-N) mg/L	11-9-99					205	3mg/L	$15.00	$15.00	EPA 350.2
Phosphate Ortho (PO4-P) mg/L										ASTM D 515-72B
Phosphate Total (PO4-P) mg/L										ASTM D 151-72B
Iron (Fe) mg/L										EPA 236.1

This Page Total$ ----------> $423.00

The 1 Page Total ---------- $423.00

The test results reported relate only to the items tested.
Reports shall not be reproduced except in full without the approval of the testing laboratory.
Any deviations, additions to, or exclusions from the test specifications and any other information relevant to a specific test will be in the note section of the report.
Non-standard test methods or procedures used will be explained in the note section of the report.
A description of sampling procedures will be found in the note section of the report when relevant.
When necessary, an explanation of measurement uncertainty will be in the note section of the report.

References

ASTM - American Society for Testing Materials

EPA - Methods for Chemical Analysis for Water and Waste "Environmental Protection Agency 1983"

EPA-B - Microbiological Methods for Monitoring the Environment "Environmental Protection Agency 1978"

SM - Standard Methods 18th Edition 1992

City Chemist Notes:

Gary Beatty

Highest GW; MW-2
SW Pond

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Oct-09*

CLIENT: Estes Sampling Service
Lab Order: 0910238
Project: 3-V Dairy
Lab ID: 0910238-05

Client Sample ID: Lagoon
Collection Date: 10/12/2009 12:32:00 PM
Date Received: 10/13/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: LJB
EPA METHOD 300.0: ANIONS						
Chloride	120	1.0		mg/L	10	10/13/2009 11:38:54 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	10/13/2009 11:38:54 PM
						Analyst: MMS
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	1980	200		mg/L	1	10/19/2009 3:10:00 PM
						Analyst: KS
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	170	20		mg/L	1	10/15/2009 3:33:00 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: *04-Aug-09*

CLIENT: Estes Sampling Service
Lab Order: 0907530
Project: 3-V Dairy
Lab ID: 0907530-05

Client Sample ID: Lagoon
Collection Date: 7/28/2009 2:32:00 PM
Date Received: 7/29/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	230	2.0		mg/L	20	7/29/2009 8:53:07 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	7/29/2009 8:35:42 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	2260	400		mg/L	1	7/31/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	210	20		mg/L	1	7/31/2009

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: *07-May-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	Lagoon
Lab Order:	0904345	**Collection Date:**	4/21/2009 1:45:00 PM
Project:	3-V Dairy	**Date Received:**	4/22/2009
Lab ID:	0904345-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: IC
Chloride	210	2.0		mg/L	20	4/22/2009 5:41:32 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	4/22/2009 5:41:32 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	2500	100		mg/L	1	4/24/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	260	20		mg/L	1	4/24/2009

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: *29-Jan-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	Lagoon
Lab Order:	0901323	**Collection Date:**	1/22/2009 11:30:00 AM
Project:	3-V Dairy	**Date Received:**	1/23/2009
Lab ID:	0901323-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: RAGS
EPA METHOD 300.0: ANIONS						
Chloride	180	1.0		mg/L	10	1/23/2009 2:33:22 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	1/23/2009 2:33:22 PM
						Analyst: KMS
SM 2540 C: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	2600	400		mg/L	1	1/26/2009
						Analyst: TAF
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	280	10		mg/L	1	1/26/2009

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: *29-Jan-09*

CLIENT: Estes Sampling Service
Lab Order: 0901323
Project: 3-V Dairy
Lab ID: 0901323-05

Client Sample ID: Lagoon
Collection Date: 1/22/2009 11:30:00 AM
Date Received: 1/23/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: RAGS
EPA METHOD 300.0: ANIONS						
Chloride	180	1.0		mg/L	10	1/23/2009 2:33:22 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	1/23/2009 2:33:22 PM
						Analyst: KMS
SM 2540 C: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	2600	400		mg/L	1	1/26/2009
						Analyst: TAF
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	280	10		mg/L	1	1/26/2009

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

Highest WW

DP-191

Advanced Analysis, Inc.

5601 19th Street Lubbock, Texas 79407 P.O. Box 16652 Lubbock,Texas 79490
Tel: (806) 796-2805 Fax : (806) 796-2825

RECEIVED AUG 3 0 2005

ANALYTICAL RESULTS FOR
COWBELL TESTING
ATTN: AMY MUNSON
P. O. BOX 310
HAGERMAN, NM 88232
PHONE: (505) 752-0939

Receiving Date: 07/25/05
Reporting Date: 08/06/05
Project Number: DP-
Project Name: 3V DAIRY
Project Location: ROSWELL, NM

Sampling Date: 07/23/05
Sample Type: WELL H_2O, WASTE H_2O
Sample Condition: COOL & INTACT
Sample Received By: MR
Analyzed By: RG, CW

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Chlorides (mg/L)	TKN (mg/L)	NO_3-NO_2-N (mg/L)
Date Analysis Batch Started:		07/28/05	08/01/05	08/02/05	08/04/05
Time Analysis Batch Started:		13:00	10:00	8:45	10:00
AJ9379-1	MW 1	3925	375	0.6	40.6
AJ9379-2	MW 2	3980	395	0.6	30.5
AJ9379-3	MW 3	2855	170	0.7	57.5
AJ9379-4	MW 4	3575	200	0.7	57.9
AJ9379-5	LAGOON	1280	180	50	0.16
Date Analysis Batch Finished:		07/29/05	08/01/05	08/02/05	08/04/05
Time Analysis Batch Finished:		15:25	14:30	17:00	12:30
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		990	50	4.96	0.466
True Value QC		1000	50	5.00	0.500
% Instrument Accuracy		99	100	99	93
% Extraction Accuracy		N/A	102	95	93
Relative Percent Difference		0	2	4	3
METHODS: EPA 600/4-79-020,		160.1	4500B-Cl^-	351.4	353.3

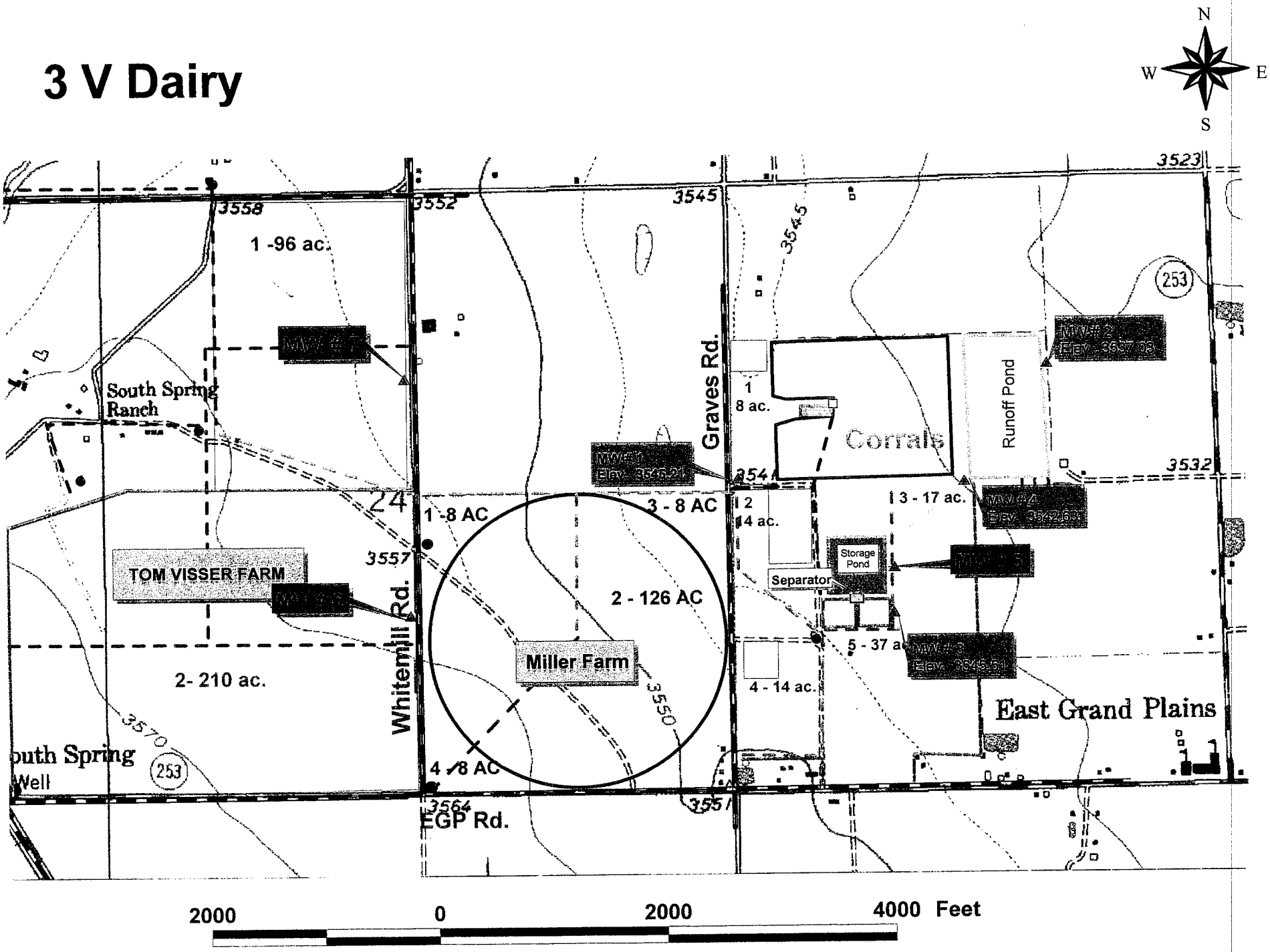
*Less than the Minimum Detection Limit.

Mario Rodriguez
Mario Rodriguez, Director

08-06-05
Date

Lowest WW

3 V Dairy



2000 0 2000 4000 Feet