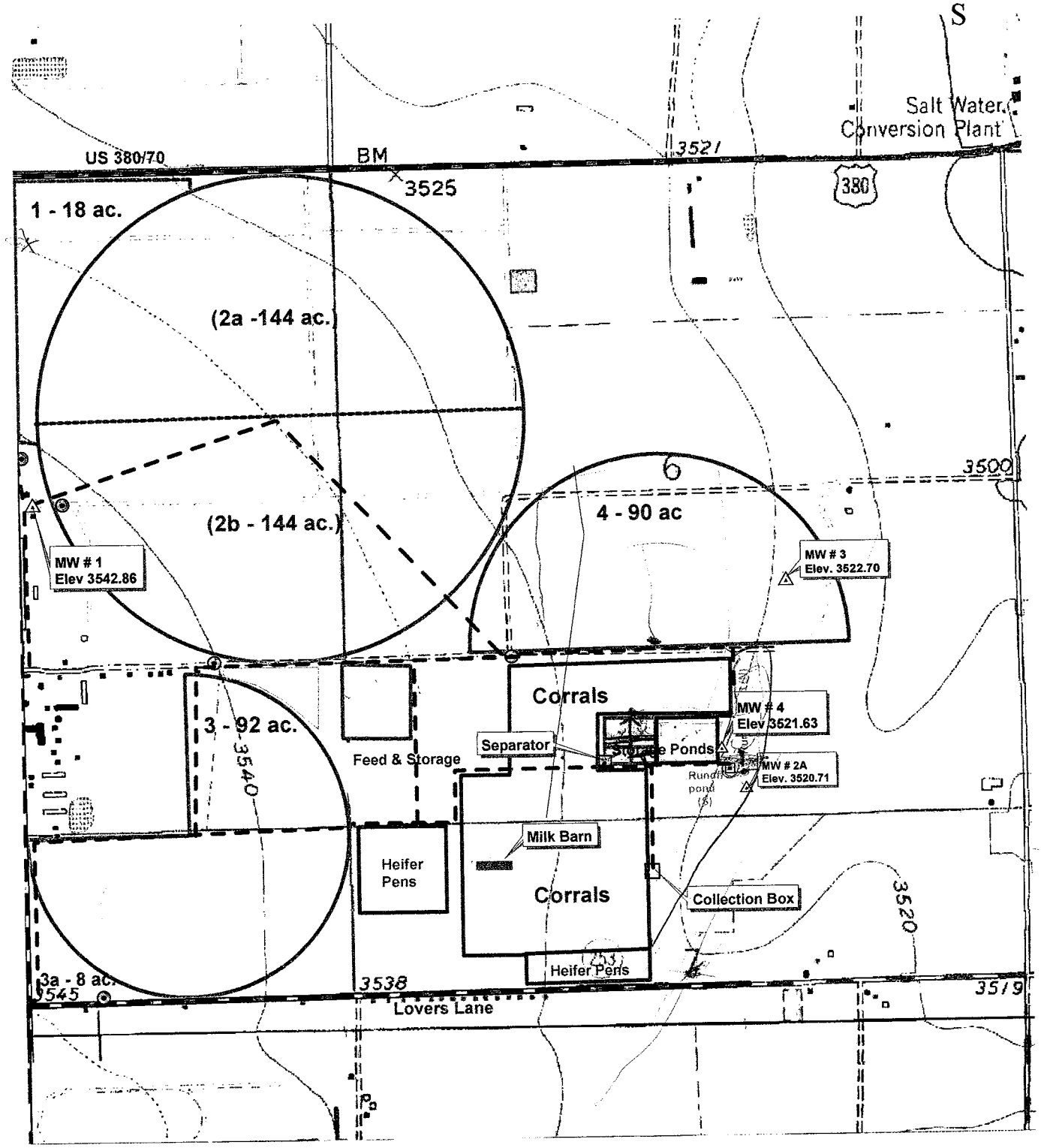
Pete De Groot Dairy



2000 0 2000 4000 Feet

DP-718

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Nov-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-1
Lab Order:	0911280	**Collection Date:**	11/12/2009 1:05:00 PM
Project:	De Groot Dairy	**Date Received:**	11/13/2009
Lab ID:	0911280-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	3200	20		mg/L	200	11/17/2009 11:07:22 PM
Nitrate (As N)+Nitrite (As N)	17	10		mg/L	50	11/18/2009 7:51:02 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	8110	200		mg/L	1	11/18/2009 5:17:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/16/2009 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: *23-Nov-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-2A
Lab Order:	0911280	**Collection Date:**	11/12/2009 12:18:00 PM
Project:	De Groot Dairy	**Date Received:**	11/13/2009
Lab ID:	0911280-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	2200	20		mg/L	200	11/17/2009 11:42:11 PM
Nitrate (As N)+Nitrite (As N)	ND	10		mg/L	50	11/18/2009 8:08:26 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	7350	100		mg/L	1	11/18/2009 5:17:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	3.9	2.0		mg/L	1	11/16/2009 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		

DP-718

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Nov-09*

CLIENT: Estes Sampling Service
Lab Order: 0911280
Project: De Groot Dairy
Lab ID: 0911280-03

Client Sample ID: MW-3
Collection Date: 11/12/2009 1:51:00 PM
Date Received: 11/13/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	2600	20		mg/L	200	11/18/2009 12:34:26 AM
Nitrate (As N)+Nitrite (As N)	67	10		mg/L	50	11/18/2009 12:17:01 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	8280	40.0		mg/L	1	11/18/2009 5:17:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/16/2009 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: *23-Nov-09*

CLIENT: Estes Sampling Service
Lab Order: 0911280
Project: De Groot Dairy
Lab ID: 0911280-04

Client Sample ID: MW-4
Collection Date: 11/12/2009 11:25:00 AM
Date Received: 11/13/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	6200	50		mg/L	500	11/18/2009 8:26:51 PM
Nitrate (As N)+Nitrite (As N)	ND	20		mg/L	100	11/18/2009 9:18:04 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	11900	20.0		mg/L	1	11/18/2009 5:17:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/16/2009 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		

DY-718

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Nov-09*

CLIENT: Estes Sampling Service
Lab Order: 0911280
Project: De Groot Dairy
Lab ID: 0911280-05

Client Sample ID: Lagoon
Collection Date: 11/12/2009 2:20:00 PM
Date Received: 11/13/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	740	5.0		mg/L	50	11/18/2009 2:01:27 AM
Nitrate (As N)+Nitrite (As N)	ND	2.0		mg/L	10	11/16/2009 11:33:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	3790	200		mg/L	1	11/18/2009 5:17:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	350	20		mg/L	1	11/16/2009 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		

DP-118

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Sep-09*

CLIENT: Estes Sampling Service
Lab Order: 0908290
Project: De Groot Dairy
Lab ID: 0908290-01

Client Sample ID: MW-1
Collection Date: 8/17/2009 10:53:00 AM
Date Received: 8/18/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: LJB
EPA METHOD 300.0: ANIONS						
Chloride	3100	20		mg/L	200	8/18/2009 12:30:58 PM
Nitrogen, Nitrate (As N)	15	1.0		mg/L	10	8/18/2009 12:13:33 PM
						Analyst: MMS
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	7740	400		mg/L	1	8/18/2009
						Analyst: KMS
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	9.1	5.0		mg/L	1	8/31/2009 1:27:00 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-Sep-09*

CLIENT: Estes Sampling Service
Lab Order: 0908290
Project: De Groot Dairy
Lab ID: 0908290-02

Client Sample ID: MW-2a
Collection Date: 8/17/2009 10:08:00 AM
Date Received: 8/18/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	2200	20		mg/L	200	8/18/2009 1:05:48 PM
Nitrogen, Nitrate (As N)	12	1.0		mg/L	10	8/18/2009 12:48:23 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	7470	40.0		mg/L	1	8/18/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	4.2	2.0		mg/L	1	8/31/2009 1:27:00 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		

DP-410

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Sep-09*

CLIENT: Estes Sampling Service
Lab Order: 0908290
Project: De Groot Dairy
Lab ID: 0908290-03

Client Sample ID: MW-3
Collection Date: 8/17/2009 11:45:00 AM
Date Received: 8/18/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: LJB
EPA METHOD 300.0: ANIONS						
Chloride	2500	20		mg/L	200	8/18/2009 2:15:27 PM
Nitrogen, Nitrate (As N)	69	1.0		mg/L	10	8/18/2009 1:58:02 PM
						Analyst: MMS
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	8270	100		mg/L	1	8/18/2009
						Analyst: KMS
SM 4500 NORG-C: TKN						
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	8/31/2009 1:27:00 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-Sep-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0908290	**Collection Date:**	8/17/2009 9:26:00 AM
Project:	De Groot Dairy	**Date Received:**	8/18/2009
Lab ID:	0908290-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	6100	50		mg/L	500	8/18/2009 2:50:15 PM
Nitrogen, Nitrate (As N)	11	1.0		mg/L	10	8/18/2009 2:32:51 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	12100	40.0		mg/L	1	8/18/2009
SM 4500 NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	8/31/2009 1:27:00 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-Sep-09*

CLIENT: Estes Sampling Service
Lab Order: 0908290
Project: De Groot Dairy
Lab ID: 0908290-05

Client Sample ID: Lagoon
Collection Date: 8/17/2009 9:37:00 AM
Date Received: 8/18/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	760	5.0		mg/L	50	8/19/2009 11:56:43 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	8/18/2009 3:07:39 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	3510	200		mg/L	1	8/18/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	170	20		mg/L	1	8/31/2009 1:27:00 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		

DP-718

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Jun-09*

CLIENT: Estes Sampling Service
Lab Order: 0905369
Project: De Groot Dairy
Lab ID: 0905369-01

Client Sample ID: MW-1
Collection Date: 5/19/2009 10:58:00 AM
Date Received: 5/20/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	2800	50		mg/L	500	5/29/2009 6:21:26 PM
Nitrogen, Nitrate (As N)	17	1.0		mg/L	10	5/20/2009 8:52:55 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	8700	400		mg/L	1	5/22/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	5/26/2009

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: *02-Jun-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-2a
Lab Order:	0905369	**Collection Date:**	5/19/2009 10:19:00 AM
Project:	De Groot Dairy	**Date Received:**	5/20/2009
Lab ID:	0905369-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	2200	20		mg/L	200	5/29/2009 6:38:51 PM
Nitrogen, Nitrate (As N)	15	1.0		mg/L	10	5/20/2009 9:27:44 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	7400	40		mg/L	1	5/22/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	3.4	2.0		mg/L	1	5/26/2009

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-718

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Jun-09*

CLIENT: Estes Sampling Service
Lab Order: 0905369
Project: De Groot Dairy
Lab ID: 0905369-03

Client Sample ID: MW-3
Collection Date: 5/19/2009 1:38:00 PM
Date Received: 5/20/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	2600	20		mg/L	200	5/29/2009 6:56:16 PM
Nitrogen, Nitrate (As N)	68	1.0		mg/L	10	5/20/2009 10:02:33 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	8300	100		mg/L	1	5/22/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	5/26/2009

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: *02-Jun-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0905369	**Collection Date:**	5/19/2009 12:55:00 PM
Project:	De Groot Dairy	**Date Received:**	5/20/2009
Lab ID:	0905369-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	5600	50		mg/L	500	5/29/2009 7:13:41 PM
Nitrogen, Nitrate (As N)	13	0.10		mg/L	1	5/20/2009 10:54:47 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	13000	100		mg/L	1	5/22/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	5/26/2009

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		

DF-718

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Jun-09*

CLIENT: Estes Sampling Service
Lab Order: 0905369
Project: De Groot Dairy
Lab ID: 0905369-05

Client Sample ID: Lagoon
Collection Date: 5/19/2009 2:00:00 PM
Date Received: 5/20/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	830	5.0		mg/L	50	5/27/2009 7:32:10 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	5/21/2009 12:04:26 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	5400	400		mg/L	1	5/22/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	450	20		mg/L	1	5/26/2009

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-118

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Feb-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-1
Lab Order:	0902155	**Collection Date:**	2/16/2009 9:24:00 AM
Project:	De Groot Dairy	**Date Received:**	2/17/2009
Lab ID:	0902155-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	2800	10		mg/L	100	2/17/2009 8:43:22 PM
Nitrogen, Nitrate (As N)	17	0.10		mg/L	1	2/17/2009 8:08:33 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	9200	400		mg/L	1	2/18/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	2/17/2009

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: *27-Feb-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-2a
Lab Order:	0902155	**Collection Date:**	2/16/2009 10:39:00 AM
Project:	De Groot Dairy	**Date Received:**	2/17/2009
Lab ID:	0902155-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	2200	10		mg/L	100	2/17/2009 10:10:25 PM
Nitrogen, Nitrate (As N)	17	0.10		mg/L	1	2/17/2009 9:35:35 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	6700	400		mg/L	1	2/18/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	5.6	5.0		mg/L	1	2/17/2009

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		

DF-210

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Feb-09*

CLIENT: Estes Sampling Service
Lab Order: 0902155
Project: De Groot Dairy
Lab ID: 0902155-03

Client Sample ID: MW-3
Collection Date: 2/16/2009 11:11:00 AM
Date Received: 2/17/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	2400	10		mg/L	100	2/17/2009 11:37:27 PM
Nitrogen, Nitrate (As N)	64	1.0		mg/L	10	2/17/2009 11:20:02 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	8900	400		mg/L	1	2/18/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/17/2009

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: *27-Feb-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-4
Lab Order:	0902155	**Collection Date:**	2/16/2009 10:07:00 AM
Project:	De Groot Dairy	**Date Received:**	2/17/2009
Lab ID:	0902155-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	5500	20		mg/L	200	2/18/2009 12:29:39 AM
Nitrogen, Nitrate (As N)	14	1.0		mg/L	10	2/18/2009 12:12:15 AM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: **JMP**
Total Dissolved Solids	15000	400		mg/L	1	2/18/2009
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	2/17/2009

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		

DF-410

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Feb-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	Lagoon
Lab Order:	0902155	**Collection Date:**	2/16/2009 11:23:00 AM
Project:	De Groot Dairy	**Date Received:**	2/17/2009
Lab ID:	0902155-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	580	2.0		mg/L	20	2/18/2009 1:04:27 AM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	2/18/2009 12:47:03 AM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	4500	200		mg/L	1	2/18/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	470	10		mg/L	1	2/17/2009

hi

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		

Advanced Analysis, Inc.

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

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

Receiving Date: 09/08/05
Reporting Date: 09/27/05
Project Number: NOT GIVEN
Project Name: DEGROOT DAIRY
Project Location: ROSWELL, NM

Sampling Date: 09/07/05
Sample Type: WELL H_2O, WASTE H_2O
Sample Condition: COOL & INTACT
Sample Received By: MR
Analyzed By: RG

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Chlorides (mg/L)	TKN (mg/L)	NO_3-NO_2-N (mg/L)
Date Analysis Batch Started:		09/18/05	09/15/05	09/13/05	09/12/05
Time Analysis Batch Started:		15:01	11:00	13:10	13:20
AJ9547-1	MW 1	8475	4200	< 0.2 *	19.1
AJ9547-2	MW 2A	7345	3300	1.6	12.5
AJ9547-3	MW 3	7385	2550	0.5	68.3
AJ9547-4	MW 4	13920	7500	< 0.2 *	27.7
AJ9547-5	LAGOON	3400	750	66	0.16
Date Analysis Batch Finished:		09/19/05	09/15/05	09/13/05	09/12/05
Time Analysis Batch Finished:		11:45	16:45	15:05	16:10
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		964	52	4.71	0.5543
True Value QC		1000	50	5.00	0.5000
% Instrument Accuracy		96	104	94	110
% Extraction Accuracy		N/A	100	94	93
Relative Percent Difference		1	4	1	0

10

EPA 600/4-79-020,	160.1	4500B-Cl⁻	351.4	353.3

* Less than the Minimum Detection Limit.

Mario Rodriguez, Director.

Date

Rec'd 12-19-05

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

Receiving Date: 12/05/05
Reporting Date: 12/09/05
Project Number: NOT GIVEN
Project Name: DEGROOT DAIRY
Project Location: ROSWELL, NM

Sampling Date: 12/04/05
Sample Type: WELL H_2O, WASTE H_2O
Sample Condition: COOL & INTACT
Sample Received By: MR
Analyzed By: RG, TE

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Chlorides (mg/L)	TKN (mg/L)	NO_3-NO_2-N (mg/L)
Date Analysis Batch Started:		12/05/05	12/06/05	12/08/05	12/06/05
Time Analysis Batch Started:		14:15	14:00	10:00	13:00
AJ9905-1	MW 1	7,165	2,400	0.7	16.1
AJ9905-2	MW 2A	2,075	2,800	3.8	13.1
AJ9905-3	MW 3	8,455	2,500	1.0	99.6
AJ9905-4	MW 4	12,285	6,630	0.6	36.5
AJ9905-5	LAGOON	2,935	750	150	0.20
Date Analysis Batch Finished:		12/06/05	12/06/05	12/09/05	12/06/05
Time Analysis Batch Finished:		9:25	15:35	9:55	15:30
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		1026	52	4.80	0.3099
True Value QC		1000	50	5.00	0.3000
% Instrument Accuracy		103	104	96	103
% Extraction Accuracy		N/A	101	108	95
Relative Percent Difference		0	0	8	3
EPA 600/4-79-020,		160.1	4500B-Cl⁻	351.4	353.3

highest GW

* Less than the Minimum Detection Limit.

Mario Rodriguez, Director.

Date

Rec'd 12-19-05

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

Receiving Date: 12/05/05
Reporting Date: 12/09/05
Project Number: NOT GIVEN
Project Name: DEGROOT DAIRY
Project Location: ROSWELL, NM

Sampling Date: 12/04/05
Sample Type: WELL H_2O, WASTE H_2O
Sample Condition: COOL & INTACT
Sample Received By: MR
Analyzed By: RG, TE

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Chlorides (mg/L)	TKN (mg/L)	NO_3-NO_2-N (mg/L)
Date Analysis Batch Started:		12/05/05	12/06/05	12/08/05	12/06/05
Time Analysis Batch Started:		14:15	14:00	10:00	13:00
AJ9905-1	MW 1	7,165	2,400	0.7	16.1
AJ9905-2	MW 2A	2,075	2,800	3.8	13.1
AJ9905-3	MW 3	8,455	2,500	1.0	99.6
AJ9905-4	MW 4	12,285	6,630	0.6	36.5
AJ9905-5	LAGOON	2,935	750	150	0.20
Date Analysis Batch Finished:		12/06/05	12/06/05	12/09/05	12/06/05
Time Analysis Batch Finished:		9:25	15:35	9:55	15:30
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		1026	52	4.80	0.3099
True Value QC		1000	50	5.00	0.3000
% Instrument Accuracy		103	104	96	103
% Extraction Accuracy		N/A	101	108	95
Relative Percent Difference		0	0	8	3

EPA 600/4-79-020,	160.1	4500B-Cl⁻	351.4	353.3

* Less than the Minimum Detection Limit.

Mario Rodriguez, Director.

Date

DP-718

MW-3
↳ Highest NO_3-N Reported in Groundwater
↳ Source Monitored: 94 ac LAA with spray irrigation

MW-1
↳ Upgradient MW