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October 31, 2011

Mr. Ray Montes  
New Mexico Environment Department  
Ground Water Quality Bureau  
Remediation Oversight Section  
1170 N. Solano, Ste. M  
Las Cruces, NM 88001

Bart Faris  
New Mexico Environment Department  
Ground Water Quality Bureau  
Remediation Oversight Section  
5500 San Antonio Dr. NE  
Albuquerque, New Mexico 87109

Dear Mr. Montes and Faris:

On behalf of Doña Ana Dairies, Inc., EA Engineering, Science, and Technology, Inc. is submitting this Quarterly Groundwater Monitoring Report for Doña Ana Dairies located in Mesquite, Vado and Anthony, New Mexico. The report discusses the quarterly groundwater sampling event conducted to fulfill requirements of the Stage 1 Abatement Plan for Doña Ana Dairies.

Please let me know if you have any questions regarding the information provided in this report.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Teri McMillan', written in a cursive style.

Teri McMillan  
Project Manager

A handwritten signature in blue ink, appearing to read 'Jay Snyder', written in a cursive style.

Jay Snyder  
Senior Hydrogeologist

Enclosure

Cc: Linda Armstrong, Doña Ana Dairies  
File



QUARTERLY GROUNDWATER  
MONITORING REPORT  
DOÑA ANA DAIRIES  
MESQUITE, NEW MEXICO

Prepared for:

Doña Ana Dairies  
Mesquite, New Mexico

Prepared by:

EA Engineering, Science,  
and Technology, Inc.  
320 Gold Avenue SW, Suite 1210  
Albuquerque, New Mexico 87102

October 2011

EA Project No. 1464103.0001





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**Quarterly Groundwater Monitoring Report**  
Doña Ana Dairies  
Mesquite, New Mexico

Prepared for:

Doña Ana Dairies  
Mesquite, New Mexico

Prepared by:

EA Engineering, Science,  
and Technology, Inc.  
320 Gold Avenue SW, Suite 1210  
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Teri McMillan  
Project Manager

October 31, 2011

Date

Jay Snyder  
Senior Hydrogeologist

October 31, 2011

Date

October 2011

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## 1.0 INTRODUCTION

On behalf of Doña Ana Dairies (Dairies), EA Engineering, Science, and Technology, Inc. (EA) has prepared this Quarterly Monitoring Report for Doña Ana Dairies located south of Las Cruces, New Mexico. The report was completed in accordance with the *Stage 1 and 2 Abatement Plan Proposal and Sampling and Analysis Plan, Doña Ana Dairies, Doña Ana County, New Mexico* dated December 11, 2006 and August 11, 2008, respectively, and the Conceptual Work Plan (CWP) dated February 1, 2008. All were prepared to satisfy requirements stated in the New Mexico Administrative Code (NMAC), Title 20, 6.2 §4106 through §4110. The Stage 1 and 2 Abatement Plan was approved on June 16, 2008 by the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB). The Sampling and Analysis Plan was approved by the NMED GWQB on September 25, 2008.

### 1.1 Objective

The objectives of this monitoring program is to satisfy the requirements set forth in NMAC 20.6.2 4106 C, Stage 1 Abatement Plan monitoring program.

The following work was performed to meet the objectives of the monitoring program, and included:

- Between July 18 and 19, 2011, two representatives from D & H Petroleum and Environmental Services, Inc. (D & H) gauged all abatement plan (AP) and discharge plan (DP) monitoring wells and various locations along the Mesquite Drain. Several wells were re-gauged on July 25, 2011 and August 3, 2011 to verify water levels.
- After gauging all the wells, the D & H representatives initiated groundwater sample collection from the ten (10) AP wells (DAD-01 through DAD-10), each Dairy's DP monitoring wells and DP specified lagoons. The sampling campaign lasted two and a half weeks, ending on August 4, 2011. The samples were delivered to TraceAnalysis Inc. and analyzed for nitrate using EPA Method 300.0 or SM 4500 NO<sub>3</sub> E, chloride by EPA Method 300.0, total dissolved solids (TDS) by Method SM 2540C, and total Kjeldhal nitrogen (TKN) by Method SM 4500 N org C;
- The most recent groundwater gauging and analytical results are compiled into this Quarterly Groundwater Monitoring Report.

### 1.2 Background

In April 7, 2006, correspondence, NMED required a Stage 1 Abatement Plan for 13 dairies in Doña Ana County, based on analytical results from DP monitoring of on-site compliance monitoring wells that showed concentrations of nitrate, chloride and TDS exceeding ground water standards promulgated in New Mexico Water Quality Control Commission (NMWQCC) Regulations (20 NMAC 6.2 §3103). On October 30, 2006, the Dairies notified NMED that they

have reached agreement to work as a group and submit a joint response to NMED's request (Doña Ana Dairies, 2006).

On December 11, 2006, on behalf of the Doña Ana dairies, Golder Associates (Golder) submitted a Stage 1 and 2 Abatement Plan Proposal to address impacts to groundwater in the area of the Dairies (Golder 2006). The first major deliverable in the Abatement Plan Proposal was an Existing Data Report (EDR) to bring together in one document historical data and practices of the constituent dairies.

The EDR, submitted on February 1, 2008, (Golder 2008a) was intended to satisfy the Dairies commitment for compilation and submission of existing data identified in the Doña Ana Dairies response (2006) to the NMED requirement for Stage I Abatement Plans. Section 9 of the EDR outlined data gaps identified during the preparation of the report, as well as the actions recommended. To facilitate the discussion of the path forward after the submittal of the EDR and concurrent with the EDR submission, a conceptual work plan (CWP) (Golder 2008b).

On July 15, 2008, the Dairies, Golder and NMED met (Golder 2008c). During that meeting, plume maps presented in the EDR (Golder 2008a), new monitoring data, and knowledge of well locations and groundwater chemistry results at adjacent DP-regulated facilities were used to identify data gaps with respect to ground water flow direction and plume delineation. The agreed upon data gaps yielded well locations (including contingency locations) recorded in the meeting minutes (Golder 2008c) and depicted in the Sampling and Analysis Plan (SAP) dated August 8, 2008 (Golder 2008d). The SAP outlined the details of the field operations to be implemented for completion of data gaps, such that a Site Investigation Report (§4106.C.6) and Stage 2 Abatement Plan (§4106.D) could be prepared.

Groundwater gauging was conducted concurrent to discussions with NMED at the Dairies for four quarters, February 2008, June 2008, September 2008, and December 2008, to determine the current and historical site groundwater gradient.

In May 2009, field work was conducted as outlined in the SAP and ten (10) AP monitoring wells (DAD-01 through DAD-10) were installed. In July 2009, the Site Investigation Report was submitted to the NMED. Quarterly groundwater monitoring is currently being conducted.

## **2.0 GROUNDWATER MONITORING ACTIVITIES**

Groundwater monitoring activities conducted by D & H included gauging and sampling all DP and AP monitoring wells. D & H also gauged the Mesquite Drain locations. Groundwater samples were analyzed for nitrate, chloride, TDS, and TKN. The resulting data from this groundwater monitoring event are compiled and presented herein.

### **2.1 Well Gauging**

On July 18 and 19, 2011, two representatives from D&H, gauged the DP and AP monitoring wells, and drain locations at the Dairies and Anthony Waste Water Treatment Plant with an electronic water level indicator. On July 25 and August 3, 2011, D&H re-gauged several wells where data appeared suspect. Tables 1 and 2 provide a summary of the groundwater gauging data collected from the monitoring network. Potentiometric surface maps were constructed based on these data (Figures 2, 3, 4, and 5).

### **2.2 Groundwater Sampling**

On July 20, 2011, D & H sampled the AP monitoring wells DAD-01 through DAD-10 with disposable bailers. Wells were purged of three well volumes with a new disposable bailer per well prior to sample collection and were sampled from clean to dirty to the extent possible to minimize cross-contamination. All non-dedicated or disposable equipment was decontaminated between wells with an Alconox™ solution to further ensure sample quality.

DP wells were sampled between July 21, 2011 and August 4, 2011. Prior to sampling, DP wells were purged three well volumes, if practicable by hand-bailing with a new disposable bailer per well or by pumping with a pump and new polyethylene tubing. Field parameters including specific conductance, pH, and temperature were monitored and recorded for most of the monitoring wells. The sampling field forms are presented in Appendix A. All meters were calibrated and/or checked with standards in accordance with manufacturer's specifications prior to daily use. Purge water was ground discharged. Copies of the field forms are included in Appendix A.

All groundwater samples were collected immediately after purging. Sampling was either accomplished by carefully pouring groundwater from the bailer into the sample containers or by pumping groundwater through new polyethylene tubing into the sample container. Sample containers were provided by TraceAnalysis. Container size, type, sample preservatives, analytical methods, and holding times are specified in Table 3. All samples were preserved in accordance with method requirements, labeled, then immediately cooled to <6°C with ice and delivered under chain-of-custody to TraceAnalysis in El Paso, Texas. All analytical laboratory reports are provided in Appendix B.

### **3.0 GROUNDWATER MONITORING RESULTS**

#### **3.1 Hydraulic Gradient and Direction of Groundwater Flow**

This quarter, groundwater was present beneath the site at depths from 8.77 to 128.01 feet below top of casing. Groundwater is encountered at shallower depths near the Mesquite Drain and at greater depths near I-10 where the topographic elevation increases.

Potentiometric surface maps were completed using the monitoring well gauging data for the northern, central, and southern portions of the Dairies and are provided as Figures 2, 3, 4, and 5. Hydrographs were completed for the monitoring well and drain network and are provided in Appendix C. In general, water levels generally fallen when compared to the last monitoring event conducted in April 2011 (See hydrographs presented in Appendix C). As a result, several wells (Dominquez #2 42-07, Dominquez 624-08, River Valley 167-02, and Big Sky 833-01 and 833-03) were dry during this sampling event.

The groundwater flow direction throughout the northern, central portion and the southern regional aquifer of the Dairies was toward the east-southeast, whereas the gradient in the southern perched aquifer of the dairy near Anthony, New Mexico, flows south-southwest. The hydraulic gradient across the APA varies from 0.001 to 0.003 ft./ft.

#### **3.2 Groundwater Analytical Results**

Groundwater analyte concentrations were below the NMWQCC standards for nitrate in seven of the ten AP monitoring wells. As in the past, nitrate concentrations in wells DAD-06 and DAD-09 were above standards. Nitrate concentrations just exceeded the standard in well DAD-01. Chloride and TDS concentrations continue to exceed their respective NMWQCC standards in all ten abatement wells. The nitrate concentration in DAD-09 during the July 2011 monitoring event increased from 47.5 mg/l in April 2011 to 70.2 mg/l during this event. Nitrate levels increased slightly in wells DAD-01, DAD-07 and DAD-10, while nitrate concentrations decreased slightly in DAD-02 and DAD-08. Nitrate levels remained below the method detection limit in wells DAD-03, DAD-04 and DAD-05. Additionally, concentrations of chloride and TDS in all wells remain relatively constant compared to levels measured in the past. Chloride concentrations ranged from 358 mg/l in DAD-06 to 1,630 mg/l in DAD-03 and TDS values ranged from 1,370 mg/l in DAD-06 to 4,720 mg/l in DAD-03. Table 4 summarizes the analytical laboratory results found in Appendix B for the AP monitoring wells. Nitrate and chloride concentration trends for select DAD wells are presented in Appendix D.

DP groundwater analytical results are summarized in Table 5. Groundwater samples were obtained within a two and a half week period ending on August 4, 2011. These data were combined with the analytical data collected from the ten AP monitoring wells and are plotted on Figures 7, 8, 9 and 10. Analytical laboratory reports are included in Appendix B. The following discussions summarize the results by area at the Dairies.

### Northern Portion

The downgradient extent of the nitrate plume within the northern portion is defined by well DAD-02 with a nitrate concentration of 7.66 mg/l. The upgradient well (northern land application well 86/340-1) had a nitrate concentration of 10.2 mg/l, just above the NMWQCC standard for nitrate (10 mg/l). All eastern cross-gradient wells at Dominguez 2 (42-10, 42-11, and 42-12), except DAD-01, have nitrate concentrations well below the standard; however, the nitrate concentration in well DAD-01 was just above the standard with a concentration of 12.0 mg/l. The western delineating cross-gradient wells Dominguez 624-04 and 624-05 had nitrate concentrations of 1.84 mg/l and 3.34 mg/l, respectively.

The chloride and TDS concentrations are above standards in all wells sampled within the northern portion. As in past monitoring events, both chloride and TDS concentrations upgradient (in well 86/340-1) of the Dairies are above NMWQCC standards at 582 mg/l and 2,500 mg/l, respectively.

### Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy well 833-07 and 833-09 at concentrations of 105 mg/l and 135 mg/l, respectively. Big Sky Dairy well 833-07 is located downgradient of the lagoon.

Chloride and TDS concentrations are above standards in all wells within the central portion, with the exception of Big Sky 833-07 and this data is suspect. The highest chloride concentration was observed in DAD-03 at 1,630 mg/l and the highest TDS concentrations were observed in Buena Vista II Dairy well 74-03 at 4,870 mg/l and DAD-03 at 4,720 mg/l. DAD-03 is located upgradient of Buena Vista Dairy II well 74-03 and is located in a residential area that previously used septic tanks.

### Southern Portion

Nitrate is present within both the regional and perched aquifers in the southern portion of the Dairies. Del Oro Dairy well 692-07 appears to have been completed and screened across both aquifers, which may explain the elevated nitrate concentrations that are observed in this well. The nitrate concentration in Del Oro Dairy well 692-07 is <1.00 mg/l, which is suspect. In the regional aquifer, Del Oro Dairy well 692-09 was above the nitrate standard with a concentration of 12.6 mg/l.

In the shallow perched aquifer the nitrate plume is not defined downgradient (southwest). Nitrate concentrations decreased compared to the last monitoring event in Del Oro Dairy wells 692-02 and 692-04 and nitrate concentrations increased in 692-01 and DAD-09. The highest nitrate concentration was observed in the perched aquifer Del Oro well 692-01 with a concentration of 176 mg/l.

Chloride and TDS concentrations are above NMWQCC standards in the southern portion. Chloride concentrations in this area ranged from 386 mg/l in well 692-08 to 1,210 mg/L in well



692-01, while TDS ranged from 1,300 mg/l to 4,840 mg/l in well 692-09 and well 692-01, respectively. However, note that upgradient well Del Oro 692-08 had a chloride concentration of 386 mg/l and a TDS concentration of 2,240 mg/l.

#### 4.0 CONCLUSION AND RECOMMENDATIONS

The groundwater monitoring event included the gauging of all DP and DAD wells and drain crossings, and sampling of ten DAD wells in addition to the DP wells. Based on the data collected, the following conclusions and recommendations are presented:

- The depth to groundwater at the site ranges from 8.77 to 128.01 feet below the top of casing and was up slightly compared to last quarter.
- The groundwater flow direction at the Dairies within the regional groundwater aquifer is east-southeast. The hydraulic gradient varies from 0.001 to 0.003 ft./ft.
- The perched groundwater aquifer at Del Oro Dairy has a groundwater flow direction toward the southwest.
- Nitrate was below the NMWQCC standards in seven of the ten groundwater samples collected from all the AP DAD wells.
- Chloride and TDS were above NMWQCC standards in all monitoring wells sampled except, Big Sky well 833-07 for chloride. The chloride result in Big Sky Dairy well 833-07 is suspect.
- Chloride and TDS remain above standards in wells upgradient of the northern, central, and southern portions of the plume at the Dairies. Chloride and TDS are regionally elevated above standards and not necessarily attributed to by the Dairies.
- The southern portion (Del Oro Dairy) still requires definition to the south-southwest for the perched or water table aquifer. The regional aquifer has been defined, although continued monitoring will be necessary.

## **5.0 REFERENCES**

- Doña Ana Dairies. 2006. Letter Regarding Agreement for Joint Stage 1 and Stage 2 Abatement Plan and Storm Water and Wastewater Pond Upgrades. Letter from Mr. Michael Weatherly, Chairman, Doña Ana Dairies, to Mr. William Olson, Chief, Ground Water Quality Bureau. October 30.
- Golder Associates, Inc. (Golder). 2006. Stage 1 and 2 Abatement Plan Proposal, prepared for New Mexico Environment Department, Remediation Oversight Section, on behalf of Doña Ana Dairies. December 11.
- Golder 2008a. Existing Data Report and Conceptual Work Plan, Doña Ana Dairies, Mesquite, New Mexico. February 1.
- Golder 2008b. Conceptual Work Plan. Doña Ana Dairies, Mesquite, New Mexico. February 1.
- Golder 2008c. Notes for the Meeting Regarding New Monitoring Well Installation. Meeting Participants: Doña Ana Dairy representative, DAD technical representatives, and NMED staff. July 28.
- Golder 2008d. Sampling and Analysis Plan. Doña Ana Dairies, Mesquite, New Mexico. August 11.
- New Mexico Environment Department. 2008. Conditional Approval of Stage 1 Abatement Plan for Doña Ana Dairies. Letter from Mr. Bill Olson, Chief, Ground Water Quality Bureau, to Mr. Weatherly, Doña Ana Dairies. June 16.
- New Mexico Environment Department. 2008. Approval of Sampling and Analysis Plan for the Doña Ana Dairies, Stage 1 Abatement Plan, Doña Ana County, New Mexico. September 25.

## **TABLES**

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>NORTHERN AREA</b>						
<b>Northern Land Application Area</b>						
70-03	19-Jul-2011	424580.78	1510233.88	3871.43	50.77	3820.66
	20-Apr-2011				49.69	3821.74
	17-Jan-2011				48.70	3822.73
	14-Sep-2010				49.02	3822.41
	24-Jun-2010				48.99	3822.44
	22-Mar-2010				48.90	3822.53
	8-Dec-2009				48.72	3822.71
	28-Aug-2009				49.21	3822.22
	26-May-2009				48.91	3822.52
	11-Dec-2008				48.02	3823.41
	28-Sep-2008				48.06	3823.37
	11-Jun-2008				49.20	3822.23
	5-Feb-2008				47.95	3823.48
	14-Nov-2007				48.10	3823.33
12-Sep-2007	48.70	3822.73				
70/86/340-01	19-Jul-2011	427320.92	1508461.05	3866.77	44.49	3822.28
	20-Apr-2011				43.15	3823.62
	17-Jan-2011				42.00	3824.77
	14-Sep-2010				41.79	3824.98
	24-Jun-2010				42.67	3824.10
	22-Mar-2010				42.21	3824.56
	8-Dec-2009				42.02	3824.75
	28-Aug-2009				42.39	3824.38
	26-May-2009				42.33	3824.44
	11-Dec-2008				41.15	3825.62
	28-Sep-2008				41.58	3825.19
	11-Jun-2008				42.31	3824.46
	5-Feb-2008				41.07	3825.70
	14-Nov-2007				41.38	3825.39
12-Sep-2007	41.46	3825.31				
86/340-01	19-Jul-2011	432021.33	1503216.90	3876.14	50.36	3825.78
	20-Apr-2011				48.91	3827.23
	17-Jan-2011				47.00	3829.14
	14-Sep-2010				47.63	3828.51
	24-Jun-2010				48.22	3827.92
	22-Mar-2010				47.66	3828.48
	8-Dec-2009				47.39	3828.75
	28-Aug-2009				47.75	3828.39
	26-May-2009				47.86	3828.28
	11-Dec-2008				46.68	3829.46
	28-Sep-2008				47.44	3828.70
	11-Jun-2008				48.11	3828.03
	5-Feb-2008				46.68	3829.46
	14-Nov-2007				47.11	3829.03
12-Sep-2007	47.85	3828.29				
<b>Former Daybreak Dairy (Del Norte Dairy)</b>						
126-04	19-Jul-2011	423258.23	1510546.24	3850.31	30.26	3820.05
	20-Apr-2011				29.09	3821.22
	17-Jan-2011				28.20	3822.11
	14-Sep-2010				28.60	3821.71
	24-Jun-2010				28.21	3822.10
	22-Mar-2010				28.33	3821.98
	8-Dec-2009				28.17	3822.14
	28-Aug-2009				28.50	3821.81
	26-May-2009				28.30	3822.01
	11-Dec-2008				27.56	3822.75
	27-Sep-2008				27.96	3822.35
	10-Jun-2008				28.61	3821.70
	6-Feb-2008				27.53	3822.78
	14-Nov-2007				27.61	3822.70
11-Sep-2007	28.19	3822.12				

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DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Former Daybreak Dairy (Del Norte Dairy) Continued</b>						
126-05	19-Jul-2011	422293.26	1510649.84	3842.62	22.72	3819.90
	20-Apr-2011				21.74	3820.88
	21-Jan-2011				21.30	3821.32
	14-Sep-2010				20.91	3821.71
	24-Jun-2010				21.13	3821.49
	22-Mar-2010				21.06	3821.56
	8-Dec-2009				20.88	3821.74
	28-Aug-2009				20.83	3821.79
	26-May-2009				20.91	3821.71
	11-Dec-2008				20.29	3822.33
	27-Sep-2008				20.42	3822.20
	10-Jun-2008				21.26	3821.36
	6-Feb-2008				20.34	3822.28
	14-Nov-2007				20.32	3822.30
11-Sep-2007	20.74	3821.88				
126-07	19-Jul-2011	423613.62	1509986.47	3850.94	30.30	3820.64
	20-Apr-2011				28.59	3822.35
	27-Jan-2011				28.43	3822.51
	14-Sep-2010				28.45	3822.49
	24-Jun-2010				28.74	3822.20
	22-Mar-2010				28.57	3822.37
	8-Dec-2009				28.37	3822.57
	28-Aug-2009				28.61	3822.33
	26-May-2009				28.47	3822.47
	11-Dec-2008				27.70	3823.24
	27-Sep-2008				27.97	3822.97
	10-Jun-2008				28.78	3822.16
	6-Feb-2008				27.71	3823.23
	14-Nov-2007				27.63	3823.31
11-Sep-2007	28.06	3822.88				
126-09	19-Jul-2011	425154.15	1510994.31	3893.35	73.19	3820.16
	20-Apr-2011				72.11	3821.24
	21-Jan-2011				71.00	3822.35
	14-Sep-2010				71.52	3821.83
	29-Jun-2010				72.23	3821.12
	22-Mar-2010				71.03	3822.32
	8-Dec-2009				70.94	3822.41
	28-Aug-2009				71.73	3821.62
	26-May-2009				71.12	3822.23
	11-Dec-2008				70.27	3823.08
	27-Sep-2008				70.79	3822.56
	10-Jun-2008				71.47	3821.88
	6-Feb-2008				70.08	3823.27
	14-Nov-2007				70.46	3822.89
11-Sep-2007	71.39	3821.96				
126-12	19-Jul-2011	421492.11	1510198.45	3838.88	18.27	3820.61
	20-Apr-2011				17.62	3821.26
	17-Jan-2011				17.00	3821.88
	16-Sep-2010				16.48	3822.40
	24-Jun-2010				17.30	3821.58
	24-Jun-2010				17.30	3821.58
	22-Mar-2010				17.19	3821.69
	8-Dec-2009				16.99	3821.89
	28-Aug-2009				16.49	3822.39
	26-May-2009				16.85	3822.03
	11-Dec-2008				16.37	3822.51
	27-Sep-2008				16.29	3822.59
	10-Jun-2008				17.19	3821.69
	6-Feb-2008				16.62	3822.26
14-Nov-2007	16.33	3822.55				
11-Sep-2007	16.56	3822.32				

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DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Former Daybreak Dairy (Del Norte Dairy) Continued</b>						
126-13	19-Jul-2011	423431.96	1510657.41	3857.37	37.29	3820.08
	20-Apr-2011				35.23	3822.14
	13-Jan-2011				35.23	3822.14
	14-Sep-2010				35.66	3821.71
	24-Jun-2010				36.01	3821.36
	22-Mar-2010				35.40	3821.97
	8-Dec-2009				35.24	3822.13
	28-Aug-2009				35.60	3821.77
	26-May-2009				35.37	3822.00
	11-Dec-2008				34.62	3822.75
	27-Sep-2008				34.99	3822.38
	10-Jun-2008				35.69	3821.68
	6-Feb-2008				NA	NA
	14-Nov-2007				16.33	3841.04
11-Sep-2007	NA	NA				
<b>Mountain View Dairy</b>						
70-01	9-Jul-2011	423303.43	1510585.63	3851.84	31.77	3820.07
	20-Apr-2011				30.69	3821.15
	17-Jan-2011				29.72	3822.12
	14-Sep-2010				30.19	3821.65
	24-Jun-2010				29.30	3822.54
	22-Mar-2010				Unable to open well	
	8-Dec-2009				29.75	3822.09
	28-Aug-2009				30.08	3821.76
	26-May-2009				29.88	3821.96
	11-Dec-2008				29.13	3822.71
	27-Sep-2008				29.79	3822.05
	10-Jun-2008				30.20	3821.64
	5-Feb-2008				29.10	3822.74
	13-Nov-2007				29.25	3822.59
12-Sep-2007	29.77	3822.07				
70-02	19-Jul-2011	423412.73	1511192.51	3861.25	41.52	3819.73
	20-Apr-2011				40.46	3820.79
	17-Jan-2011				38.90	3822.35
	14-Sep-2010				39.96	3821.29
	24-Jun-2010				39.01	3822.24
	22-Mar-2010				39.54	3821.71
	8-Dec-2009				39.42	3821.83
	28-Aug-2009				39.81	3821.44
	26-May-2009				39.56	3821.69
	11-Dec-2008				38.84	3822.41
	27-Sep-2008				39.20	3822.05
	10-Jun-2008				39.90	3821.35
	6-Feb-2008				39.77	3821.48
	14-Nov-2007				39.01	3822.24
11-Sep-2007	39.60	3821.65				
<b>Buena Vista Dairy I</b>						
86-01	19-Jul-2011	421534.62	1511667.76	3864.96	45.66	3819.30
	20-Apr-2011				44.28	3820.68
	17-Jan-2011				44.30	3820.66
	16-Sep-2010				44.09	3820.87
	24-Jun-2010				44.39	3820.57
	22-Mar-2010				44.19	3820.77
	8-Dec-2009				43.89	3821.07
	28-Aug-2009				43.96	3821.00
	26-May-2009				44.03	3820.93
	11-Dec-2008				43.53	3821.43
	28-Sep-2008				43.60	3821.36
	10-Jun-2008				44.44	3820.52
	5-Feb-2008				43.69	3821.27
	13-Nov-2007				43.78	3821.18
12-Sep-2007	44.21	3820.75				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Buena Vista Dairy I - Continued</b>						
86-02	19-Jul-2011	421792.08	1510881.53	3848.08	27.74	3820.34
	20-Apr-2011				27.18	3820.90
	17-Jan-2011				26.34	3821.74
	16-Sep-2010				26.18	3821.90
	24-Jun-2010				26.79	3821.29
	22-Mar-2010				26.54	3821.54
	8-Dec-2009				26.33	3821.75
	28-Aug-2009				26.11	3821.97
	26-May-2009				26.29	3821.79
	11-Dec-2008				25.77	3822.31
	28-Sep-2008				25.78	3822.3
	10-Jun-2008				26.65	3821.43
	5-Feb-2008				26.95	3821.13
	13-Nov-2007				25.88	3822.2
12-Sep-2007	26.19	3821.89				
<b>Bright Star Dairy</b>						
340-01	19-Jul-2011	421410.13	1511423.42	3858.48	38.74	3819.74
	20-Apr-2011				38.14	3820.34
	17-Jan-2011				37.33	3821.15
	14-Sep-2010				37.20	3821.28
	24-Jun-2010				38.05	3820.43
	22-Mar-2010				37.48	3821.00
	8-Dec-2009				37.26	3821.22
	28-Aug-2009				37.10	3821.38
	26-May-2009				37.26	3821.22
	11-Dec-2008				36.79	3821.69
	27-Sep-2008				36.77	3821.71
	10-Jun-2008				37.63	3820.85
	6-Feb-2008				37.03	3821.45
	14-Nov-2007				37.00	3821.48
11-Sep-2007	37.36	3821.12				
340-02	19-Jul-2011	420641.08	1512051.57	3869.76	50.24	3819.52
	20-Apr-2011				48.86	3820.90
	17-Jan-2011				49.00	3820.76
	14-Sep-2010				48.80	3820.96
	24-Jun-2010				49.67	3820.09
	22-Mar-2010				49.17	3820.59
	8-Dec-2009				49.03	3820.73
	28-Aug-2009				48.79	3820.97
	26-May-2009				48.94	3820.82
	11-Dec-2008				48.62	3821.14
	28-Sep-2008				48.48	3821.28
	10-Jun-2008				49.30	3820.46
	5-Feb-2008				48.90	3820.86
	14-Nov-2007				48.84	3820.92
12-Sep-2007	49.28	3820.48				
<b>Former D&amp;J Dairy (Dominguez 2)</b>						
42-02	19-Jul-2011	419982.45	1511126.19	3844.69	23.15	3821.54
	19-Apr-2011				22.80	3821.89
	18-Jan-2011				23.30	3821.39
	15-Sep-2010				22.34	3822.35
	24-Jun-2010				22.84	3821.85
	22-Mar-2010				23.16	3821.53
	8-Dec-2009				22.87	3821.82
	28-Aug-2009				22.43	3822.26
	26-May-2009				22.73	3821.96
	11-Dec-2008				22.91	3821.78
	27-Sep-2008				22.28	3822.41
	10-Jun-2008				23.12	3821.57
	6-Feb-2008				23.43	3821.26
	13-Nov-2007				23.00	3821.69
12-Sep-2007	23.15	3821.54				



**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Former D&amp;J Dairy (Dominguez 2) Continued</b>						
42-03	19-Jul-2011	419710.55	1514064.35	3898.46	81.33	3817.13
	19-Apr-2011				80.21	3818.25
	18-Jan-2011				79.33	3819.13
	15-Sep-2010				79.91	3818.55
	24-Jun-2010				81.12	3817.34
	22-Mar-2010				79.57	3818.89
	8-Dec-2009				79.12	3819.34
	28-Aug-2009				79.26	3819.20
	26-May-2009				79.42	3819.04
	11-Dec-2008				78.89	3819.57
	27-Sep-2008				78.91	3819.55
	10-Jun-2008				79.91	3818.55
	6-Feb-2008				79.76	3818.70
	13-Nov-2007				79.15	3819.31
12-Sep-2007	79.71	3818.75				
42-06	19-Jul-2011	420021.61	1511465.15	3850.15	29.37	3820.78
	19-Apr-2011				29.66	3820.49
	18-Jan-2011				29.18	3820.97
	15-Sep-2010				28.36	3821.79
	24-Jun-2010				28.96	3821.19
	22-Mar-2010				29.04	3821.11
	8-Dec-2009				28.90	3821.25
	28-Aug-2009				28.44	3821.71
	26-May-2009				28.70	3821.45
	11-Dec-2008				28.75	3821.40
	27-Sep-2008				28.27	3821.88
	10-Jun-2008				29.03	3821.12
	6-Feb-2008				29.24	3820.91
	13-Nov-2007				28.87	3821.28
12-Sep-2007	29.03	3821.12				
42-07	19-Jul-2011	420584.8	1513076.66	3891.52	Dry	
	19-Apr-2011				72.19	3819.33
	18-Jan-2011				71.37	3820.15
	15-Sep-2010				71.64	3819.88
	24-Jun-2010				72.24	3819.28
	22-Mar-2010				71.43	3820.09
	8-Dec-2009				71.26	3820.26
	28-Aug-2009				71.26	3820.26
	26-May-2009				71.31	3820.21
	11-Dec-2008				70.87	3820.65
	27-Sep-2008				70.95	3820.57
	10-Jun-2008				71.71	3819.81
	6-Feb-2008				71.00	3820.52
	13-Nov-2007				71.12	3820.40
12-Sep-2007	71.61	3819.91				
42-08	19-Jul-2011	419994.93	1511197.91	3846.53	25.24	3821.29
	19-Apr-2011				25.72	3820.81
	18-Jan-2011				25.28	3821.25
	15-Sep-2010				24.37	3822.16
	24-Jun-2010				24.91	3821.62
	22-Mar-2010				25.15	3821.38
	8-Dec-2009				24.91	3821.62
	28-Aug-2009				24.46	3822.07
	26-May-2009				24.75	3821.78
	11-Dec-2008				24.88	3821.65
	27-Sep-2008				24.30	3822.23
	10-Jun-2008				25.13	3821.40
	6-Feb-2008				25.41	3821.12
	13-Nov-2007				25.00	3821.53
12-Sep-2007	25.13	3821.40				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Former D&amp;J Dairy (Dominguez 2) Continued</b>						
42-09	19-Jul-2011	419729.17	1512255.76	3865.25	45.54	3819.71
	19-Apr-2011				45.38	3819.87
	18-Jan-2011				44.87	3820.38
	15-Sep-2010				44.21	3821.04
	24-Jun-2010				44.99	3820.26
	22-Mar-2010				44.72	3820.53
	8-Dec-2009				44.70	3820.55
	28-Aug-2009				44.32	3820.93
	26-May-2009				44.50	3820.75
	11-Dec-2008				44.39	3820.86
	27-Sep-2008				44.12	3821.13
	10-Jun-2008				44.77	3820.48
	6-Feb-2008				44.80	3820.45
	13-Nov-2007				44.47	3820.78
12-Sep-2007	44.73	3820.52				
42-10	19-Jul-2011	421426.39	1514460.4	3929.28	111.21	3818.07
	19-Apr-2011				110.06	3819.22
	18-Jan-2011				109.19	3820.09
	15-Sep-2010				110.24	3819.04
	27-Jun-2010				110.35	3818.93
	22-Mar-2010				109.47	3819.81
	8-Dec-2009				109.41	3819.87
	28-Aug-2009				109.67	3819.61
	26-May-2009				109.53	3819.75
	11-Dec-2008				109.00	3820.28
	27-Sep-2008				109.49	3819.79
	11-Jun-2008				109.88	3819.40
	6-Feb-2008				108.98	3820.30
	14-Nov-2007				109.36	3819.92
12-Sep-2007	109.92	3819.36				
42-11	19-Jul-2011	420693.98	1515270.32	3939.31	121.73	3817.58
	19-Apr-2011				120.64	3818.67
	18-Jan-2011				120.01	3819.30
	15-Sep-2010				121.02	3818.29
	27-Jun-2010				121.05	3818.26
	22-Mar-2010				120.18	3819.13
	8-Dec-2009				120.21	3819.10
	28-Aug-2009				120.51	3818.80
	26-May-2009				120.35	3818.96
	11-Dec-2008				119.88	3819.43
	27-Sep-2008				120.29	3819.02
	11-Jun-2008				120.57	3818.74
	6-Feb-2008				119.84	3819.47
	14-Nov-2007				120.24	3819.07
12-Sep-2007	120.74	3818.57				
42-12	19-Jul-2011	420972.09	1515423.88	3945.83	128.01	3817.82
	19-Apr-2011				126.37	3819.46
	18-Jan-2011				126.37	3819.46
	15-Sep-2010				127.38	3818.45
	27-Jun-2010				127.43	3818.40
	22-Mar-2010				126.50	3819.33
	8-Dec-2009				126.60	3819.23
	28-Aug-2009				126.84	3818.99
	26-May-2009				126.68	3819.15
	11-Dec-2008				126.18	3819.65
	27-Sep-2008				126.68	3819.15
	11-Jun-2008				126.88	3818.95
	6-Feb-2008				126.16	3819.67
	14-Nov-2007				126.55	3819.28
12-Sep-2007	127.04	3818.79				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Former D&amp;J Dairy (Dominguez 2) Continued</b>						
42-13	19-Jul-2011	419734.06	1512534.42	3873.10	53.77	3819.33
	19-Apr-2011				53.50	3819.60
	18-Jan-2011				52.95	3820.15
	15-Sep-2010				52.44	3820.66
	24-Jun-2010				53.21	3819.89
	22-Mar-2010				52.84	3820.26
	8-Dec-2009				52.79	3820.31
	28-Aug-2009				52.45	3820.65
	26-May-2009				52.64	3820.46
	11-Dec-2008				52.49	3820.61
	27-Sep-2008				52.23	3820.87
	10-Jun-2008				52.91	3820.19
	6-Feb-2008				52.84	3820.26
	13-Nov-2007				52.56	3820.54
12-Sep-2007	52.83	3820.27				
<b>Dominguez Dairy</b>						
624-01	19-Jul-2011	418826.21	1512131.46	3843.72	23.22	3820.50
	19-Apr-2011				23.75	3819.97
	18-Jan-2011				23.53	3820.19
	15-Sep-2010				21.40	3822.32
	24-Jun-2010				22.48	3821.24
	22-Mar-2010				22.83	3820.89
	8-Dec-2009				23.33	3820.39
	28-Aug-2009				22.72	3821.00
	27-May-2009				22.92	3820.80
	11-Dec-2008				23.11	3820.61
	27-Sep-2008				22.62	3821.10
	10-Jun-2008				22.72	3821.00
	5-Feb-2008				23.64	3820.08
	13-Nov-2007				22.87	3820.85
12-Sep-2007	22.94	3820.78				
624-02	19-Jul-2011	417335.25	1512201.42	3835.45	15.23	3820.22
	19-Apr-2011				15.94	3819.51
	17-Jan-2011				15.66	3819.79
	20-Sep-2010				14.04	3821.41
	24-Jun-2010				13.93	3821.52
	22-Mar-2010				15.24	3820.21
	8-Dec-2009				15.61	3819.84
	28-Aug-2009				14.85	3820.60
	27-May-2009				15.14	3820.31
	11-Dec-2008				15.47	3819.98
	27-Sep-2008				14.97	3820.48
	10-Jun-2008				14.87	3820.58
	5-Feb-2008				16.50	3818.95
	13-Nov-2007				15.40	3820.05
12-Sep-2007	14.94	3820.51				
624-04	19-Jul-2011	418542.24	1508104.07	3835.69	15.39	3820.30
	19-Apr-2011				13.66	3822.03
	18-Jan-2011				13.99	3821.70
	15-Sep-2010				11.43	3824.26
	24-Jun-2010				13.49	3822.20
	22-Mar-2010				14.83	3820.86
	8-Dec-2009				13.48	3822.21
	28-Aug-2009				12.49	3823.20
	26-May-2009				12.89	3822.80
	11-Dec-2008				12.99	3822.70
	27-Sep-2008				12.31	3823.38
	10-Jun-2008				14.45	3821.24
	5-Feb-2008				14.13	3821.56
	13-Nov-2007				13.60	3822.09
12-Sep-2007	14.83	3820.86				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Dominguez Dairy Continued</b>						
624-05	3-Aug-2011	419777.52	1509829.65	3835.27	13.38	3821.89
	19-Apr-2011				13.86	3821.41
	18-Jan-2011				13.11	3822.16
	15-Sep-2010				12.01	3823.26
	24-Jun-2010				12.71	3822.56
	22-Mar-2010				13.21	3822.06
	8-Dec-2009				12.54	3822.73
	28-Aug-2009				12.03	3823.24
	26-May-2009				12.58	3822.69
	11-Dec-2008				12.82	3822.45
	27-Sep-2008				11.97	3823.30
	10-Jun-2008				13.19	3822.08
	5-Feb-2008				13.44	3821.83
	13-Nov-2007				13.01	3822.26
12-Sep-2007	13.31	3821.96				
624-06	19-Jul-2011	418502.42	1513981.08	3868.18	50.43	3817.75
	19-Apr-2011				49.79	3818.39
	18-Jan-2011				49.31	3818.87
	21-Sep-2010				48.73	3819.45
	24-Jun-2010				50.33	3817.85
	22-Mar-2010				49.62	3818.56
	8-Dec-2009				48.96	3819.22
	28-Aug-2009				48.87	3819.31
	26-May-2009				49.14	3819.04
	11-Dec-2008				48.89	3819.29
	27-Sep-2008				48.71	3819.47
	10-Jun-2008				49.67	3818.51
	5-Feb-2008				49.11	3819.07
	13-Nov-2007				48.94	3819.24
12-Sep-2007	49.17	3819.01				
624-07	19-Jul-2011	418012.23	1514707.77	3872.25	54.55	3817.70
	19-Apr-2011				54.64	3817.61
	18-Jan-2011				53.91	3818.34
	15-Sep-2010				52.30	3819.95
	24-Jun-2010				55.27	3816.98
	22-Mar-2010				54.21	3818.04
	8-Dec-2009				53.32	3818.93
	28-Aug-2009				53.22	3819.03
	26-May-2009				53.76	3818.49
	11-Dec-2008				53.59	3818.66
	27-Sep-2008				53.35	3818.90
	10-Jun-2008				54.34	3817.91
	5-Feb-2008				53.81	3818.44
	13-Nov-2007				53.26	3818.99
12-Sep-2007	53.03	3819.22				
624-08	3-Aug-2011	421461.78	1507712.04	3838.70	Dry	
	18-Apr-2011				17.72	3820.98
	18-Jan-2011				16.03	3822.67
	14-Sep-2010				14.83	3823.87
	24-Jun-2010				16.44	3822.26
	22-Mar-2010				16.42	3822.28
	8-Dec-2009				16.02	3822.68
	28-Aug-2009				15.20	3823.50
	26-May-2009				15.54	3823.16
	11-Dec-2008				14.96	3823.74
	27-Sep-2008				14.84	3823.86
	10-Jun-2008				16.12	3822.58
	5-Feb-2008				15.37	3823.33
	13-Nov-2007				14.71	3823.99
12-Sep-2007	15.33	3823.37				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Gonzalez Dairy</b>						
177-01	19-Jul-11	417300.94	1512942.63	3834.27	14.64	3819.63
	19-Apr-2011				14.84	3819.43
	17-Jan-2011				14.43	3819.84
	15-Sep-2010				13.30	3820.97
	23-Jun-2010				14.11	3820.16
	22-Mar-2010				14.75	3819.52
	8-Dec-2009				14.68	3819.59
	28-Aug-2009				14.16	3820.11
	26-May-2009				14.35	3819.92
	10-Dec-2008				14.64	3819.63
	27-Sep-2008				14.21	3820.06
	10-Jun-2008				14.50	3819.77
	6-Feb-2008				15.06	3819.21
	13-Nov-2007				14.53	3819.74
13-Sep-2007	14.03	3820.24				
177-02	19-Jul-2011	416738.21	1513246.51	3834.66	15.41	3819.25
	19-Apr-2011				15.47	3819.19
	17-Jan-2011				14.94	3819.72
	15-Sep-2010				14.23	3820.43
	23-Jun-2010				14.86	3819.80
	22-Mar-2010				15.59	3819.07
	8-Dec-2009				15.29	3819.37
	28-Aug-2009				14.90	3819.76
	26-May-2009				15.09	3819.57
	10-Dec-2008				15.37	3819.29
	27-Sep-2008				14.95	3819.71
	10-Jun-2008				15.41	3819.25
	6-Feb-2008				15.74	3818.92
	13-Nov-2007				15.39	3819.27
13-Sep-2007	14.72	3819.94				
177-03	19-Jul-11	416211.35	1513814.71	3835.90	17.54	3818.36
	19-Apr-2011				17.31	3818.59
	17-Jan-2011				16.99	3818.91
	15-Sep-2010				16.24	3819.66
	23-Jun-2010				16.53	3819.37
	22-Mar-2010				17.29	3818.61
	8-Dec-2009				16.82	3819.08
	28-Aug-2009				16.63	3819.27
	26-May-2009				16.92	3818.98
	10-Dec-2008				17.05	3818.85
	27-Sep-2008				16.65	3819.25
	10-Jun-2008				17.53	3818.37
	6-Feb-2008				17.33	3818.57
	13-Nov-2007				17.19	3818.71
13-Sep-2007	16.61	3819.29				
177-04	19-Jul-11	416796.99	1513733.28	3840.33	21.66	3818.67
	19-Apr-2011				21.41	3818.92
	17-Jan-2011				21.22	3819.11
	15-Sep-2010				20.36	3819.97
	23-Jun-2010				21.05	3819.28
	22-Mar-2010				21.71	3818.62
	8-Dec-2009				21.14	3819.19
	28-Aug-2009				20.86	3819.47
	27-May-2009				21.13	3819.20
	10-Dec-2008				21.37	3818.96
	27-Sep-2008				20.86	3819.47
	10-Jun-2008				21.63	3818.70
	6-Feb-2008				21.59	3818.74
	13-Nov-2007				21.30	3819.03
13-Sep-2007	20.84	3819.49				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Gonzalez Dairy Continued</b>						
177-05	19-Jul-11	417302.42	1514116.55	3852.16	34.07	3818.09
	19-Apr-2011				32.91	3819.25
	17-Jan-2011				33.72	3818.44
	15-Sep-2010				32.68	3819.48
	23-Jun-2010				33.59	3818.57
	22-Mar-2010				34.10	3818.06
	8-Dec-2009				33.22	3818.94
	28-Aug-2009				32.95	3819.21
	26-May-2009				33.26	3818.90
	10-Dec-2008				33.60	3818.56
	27-Sep-2008				32.95	3819.21
	10-Jun-2008				33.96	3818.20
	6-Feb-2008				33.58	3818.58
	13-Nov-2007				33.27	3818.89
13-Sep-2007	33.12	3819.04				
177-06	19-Jul-11	417301.84	1514765.63	3866.02	49.31	3816.71
	19-Apr-2011				48.92	3817.10
	17-Jan-2011				48.18	3817.84
	15-Sep-2010				47.64	3818.38
	23-Jun-2010				48.79	3817.23
	22-Mar-2010				49.12	3816.90
	8-Dec-2009				47.60	3818.42
	28-Aug-2009				47.53	3818.49
	26-May-2009				48.03	3817.99
	10-Dec-2008				48.72	3817.30
	27-Sep-2008				47.52	3818.50
	10-Jun-2008				49.31	3816.71
	6-Feb-2008				48.00	3818.02
	13-Nov-2007				48.88	3817.14
13-Sep-2007	48.84	3817.18				
177-07R	19-Jul-11	415240.93	1515476.47	3858.91	42.91	3816.00
	19-Apr-2011				41.96	3816.95
177-07	17-Jan-2011	415258.95	1515471.64	3859.96	Dry	Dry
	15-Sep-2010				Dry	Dry
	23-Jun-2010				Dry	Dry
	22-Mar-2010				Dry	Dry
	8-Dec-2009				Dry	Dry
	10-Dec-2008				Dry	Dry
	27-Sep-2008				Dry	Dry
	10-Jun-2008				Dry	Dry
	6-Feb-2008				Dry	Dry
	13-Nov-2007				Dry	Dry
13-Sep-2007	Dry	Dry				
<b>CENTRAL AREA</b>						
<b>Buena Vista Dairy II</b>						
74-01	19-Jul-2011	405434.93	1519310.15	3841.01	33.31	3807.70
	20-Apr-2011				31.97	3809.04
	21-Jan-2011				32.23	3808.78
	16-Sep-2010				31.97	3809.04
	23-Jun-2010				32.08	3808.93
	22-Mar-2010				32.07	3808.94
	8-Dec-2009				31.45	3809.56
	28-Aug-2009				32.20	3808.81
	26-May-2009				32.20	3808.81
	10-Dec-2008				31.31	3809.70
	27-Sep-2008				31.64	3809.37
	10-Jun-2008				32.00	3809.01
	5-Feb-2008				31.66	3809.35
	14-Nov-2007				31.21	3809.80
	12-Sep-2007				31.63	3809.38

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Buena Vista Dairy II Continued</b>						
74-02	19-Jul-2011	404574.08	1519035.52	3820.58	14.19	3806.39
	20-Apr-2011				12.45	3808.13
	17-Jan-2011				12.53	3808.05
	16-Sep-2010				12.45	3808.13
	23-Jun-2010				12.87	3807.71
	22-Mar-2010				12.72	3807.86
	8-Dec-2009				11.88	3808.70
	28-Aug-2009				12.53	3808.05
	26-May-2009				12.70	3807.88
	10-Dec-2008				11.65	3808.93
	27-Sep-2008				12.03	3808.55
	10-Jun-2008				12.39	3808.19
	5-Feb-2008				11.94	3808.64
	14-Nov-2007				11.52	3809.06
12-Sep-2007	12.33	3808.25				
74-03	19-Jul-2011	407163.61	1516711.72	3823.36	13.17	3810.19
	20-Apr-2011				12.11	3811.25
	17-Jan-2011				12.63	3810.73
	16-Sep-2010				12.41	3810.95
	23-Jun-2010				12.72	3810.64
	22-Mar-2010				12.94	3810.42
	8-Dec-2009				12.88	3810.48
	28-Aug-2009				12.63	3810.73
	26-May-2009				12.94	3810.42
	10-Dec-2008				13.00	3810.36
	27-Sep-2008				12.94	3810.42
	10-Jun-2008				12.66	3810.7
	5-Feb-2008				12.94	3810.42
	14-Nov-2007				12.77	3810.59
12-Sep-2007	12.53	3810.83				
74-04	19-Jul-2011	405488.65	1519864.48	3853.17	45.61	3807.56
	20-Apr-2011				44.19	3808.98
	17-Jan-2011				44.02	3809.15
	16-Sep-2010				44.19	3808.98
	23-Jun-2010				44.26	3808.91
	22-Mar-2010				44.25	3808.92
	8-Dec-2009				43.86	3809.31
	28-Aug-2009				44.49	3808.68
	26-May-2009				44.56	3808.61
	10-Dec-2008				43.70	3809.47
	27-Sep-2008				43.99	3809.18
	10-Jun-2008				44.40	3808.77
	5-Feb-2008				43.41	3809.76
	74-05				19-Jul-2011	404747.71
20-Apr-2011		37.99	3807.36			
17-Jan-2011		36.96	3808.39			
16-Sep-2010		37.00	3808.35			
23-Jun-2010		37.44	3807.91			
22-Mar-2010		37.23	3808.12			
8-Dec-2009		36.74	3808.61			
28-Aug-2009		37.32	3808.03			
26-May-2009		37.47	3807.88			
10-Dec-2008		36.53	3808.82			
27-Sep-2008		36.88	3808.47			
10-Jun-2008		37.39	3807.96			
5-Feb-2008		36.77	3808.58			

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>				
<b>River Valley Dairy</b>										
167-01	19-Jul-2011	402518.37	1518459.71	3818.94	16.81	3802.13				
	25-Apr-2011				14.51	3804.43				
	17-Jan-2011				12.33	3806.61				
	15-Sep-2010				12.19	3806.75				
	25-Jun-2010				13.31	3805.63				
	22-Mar-2010				13.46	3805.48				
	8-Dec-2009				12.11	3806.83				
	28-Aug-2009				11.99	3806.95				
	26-May-2009				12.43	3806.51				
	10-Dec-2008				12.13	3806.81				
	27-Sep-2008				12.09	3806.85				
	10-Jun-2008				12.95	3805.99				
	5-Feb-2008				12.62	3806.32				
	14-Nov-2007				12.68	3806.26				
167-01A	19-Jul-2011	402518.18	1518936.72	3818.88	16.04	3802.84				
	25-Apr-2011				14.13	3804.75				
	17-Jan-2011				12.38	3806.50				
	15-Sep-2010				12.21	3806.67				
	22-Jun-2010				13.74	3805.14				
	22-Mar-2010				13.22	3805.66				
	8-Dec-2009				12.17	3806.71				
	28-Aug-2009				12.23	3806.65				
	26-May-2009				12.62	3806.26				
	10-Dec-2008				12.03	3806.85				
	27-Sep-2008				12.18	3806.70				
	10-Jun-2008				13.16	3805.72				
	167-02				19-Jul-2011	402498.3	1519354.81	3819.64	Dry	
					25-Apr-2011				13.48	3806.16
17-Jan-2011		13.49	3806.15							
15-Sep-2010		13.68	3805.96							
22-Jun-2010		15.23	3804.41							
22-Mar-2010		14.69	3804.95							
8-Dec-2009		13.32	3806.32							
28-Aug-2009		13.65	3805.99							
26-May-2009		13.86	3805.78							
10-Dec-2008		13.43	3806.21							
27-Sep-2008		13.71	3805.93							
10-Jun-2008		14.70	3804.94							
5-Feb-2008		13.54	3806.10							
14-Nov-2007		13.65	3805.99							
11-Sep-2007		13.98	3805.66							
167-03	19-Jul-2011	402981.73	1519415.73	3825.66	23.22	3802.44				
	25-Apr-2011				18.78	3806.88				
	17-Jan-2011				18.86	3806.80				
	15-Sep-2010				18.81	3806.85				
	22-Jun-2010				19.90	3805.76				
	22-Mar-2010				19.71	3805.95				
	8-Dec-2009				18.62	3807.04				
	28-Aug-2009				18.90	3806.76				
	27-May-2009				19.26	3806.40				
	10-Dec-2008				18.41	3807.25				
	27-Sep-2008				18.72	3806.94				
	10-Jun-2008				19.82	3805.84				
	5-Feb-2008				18.64	3807.02				
	14-Nov-2007				18.55	3807.11				
	11-Sep-2007				19.02	3806.64				



**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>River Valley Dairy Continued</b>						
167-04	19-Jul-2011	402032.19	1519884.6	3827.60	24.36	3803.24
	25-Apr-2011				21.23	3806.37
	17-Jan-2011				21.18	3806.42
	15-Sep-2010				Well Damaged	
	22-Jun-2010					
	22-Mar-2010					
	8-Dec-2009					
	28-Aug-2009					
	26-May-2009				21.57	3806.03
	10-Dec-2008				21.60	3806.00
	27-Sep-2008				21.01	3806.59
	10-Jun-2008				21.01	3806.59
	5-Feb-2008				22.20	3805.40
	14-Nov-2007				21.51	3806.09
11-Sep-2007	21.44	3806.16				
11-Sep-2007	21.68	3805.92				
167-05	19-Jul-2011	397947.44	1520446.03	3815.44	13.69	3801.75
	19-Apr-2011				12.97	3802.47
	17-Jan-2011				11.90	3803.54
	15-Sep-2010				11.52	3803.92
	25-Jun-2010				12.43	3803.01
	22-Mar-2010				12.22	3803.22
	8-Dec-2009				11.96	3803.48
	28-Aug-2009				11.63	3803.81
	26-May-2009				11.45	3803.99
	10-Dec-2008				11.54	3803.90
	27-Sep-2008				11.20	3804.24
	10-Jun-2008				12.65	3802.79
	5-Feb-2008				12.36	3803.08
	14-Nov-2007				12.77	3802.67
11-Sep-2007	12.91	3802.53				
167-06	19-Jul-2011	404479.35	1519603.88	3834.84	28.75	3806.09
	25-Apr-2011				26.71	3808.13
	17-Jan-2011				26.73	3808.11
	15-Sep-2010				26.70	3808.14
	22-Jun-2010				27.17	3807.67
	22-Mar-2010				27.02	3807.82
	8-Dec-2009				26.40	3808.44
	28-Aug-2009				26.96	3807.88
	26-May-2009				27.15	3807.69
	10-Dec-2008				26.18	3808.66
	27-Sep-2008				26.54	3808.30
	10-Jun-2008				27.10	3807.74
	5-Feb-2008				26.46	3808.38
	14-Nov-2007				26.60	3808.24
11-Sep-2007	26.74	3808.10				
167-07	25-Jul-2011	402562.23	1518480.34	3819.08	15.39	3803.69
	25-Apr-2011				14.95	3804.13
	17-Jan-2011				12.39	3806.69
	15-Sep-2010				11.98	3807.10
	22-Jun-2010				12.94	3806.14
	22-Mar-2010				13.03	3806.05
	8-Dec-2009				12.18	3806.90
	28-Aug-2009				12.06	3807.02
	26-May-2009				12.56	3806.52
	10-Dec-2008				12.24	3806.84
	27-Sep-2008				12.20	3806.88
10-Jun-2008	13.00	3806.08				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>River Valley Dairy Continued</b>						
167-08	19-Jul-2011	399352.96	1519889.65	3817.96	15.59	3802.37
	19-Apr-2011				13.95	3804.01
	17-Jan-2011				13.42	3804.54
	15-Sep-2010				12.92	3805.04
	25-Jun-2010				14.69	3803.27
	22-Mar-2010				13.73	3804.23
	8-Dec-2009				13.46	3804.50
	28-Aug-2009				13.23	3804.73
	26-May-2009				12.87	3805.09
	10-Dec-2008				13.42	3804.54
	27-Sep-2008				NM	NM
	10-Jun-2008				14.02	3803.94
	167-09				19-Jul-2011	398473.95
19-Apr-2011		12.78	3804.22			
17-Jan-2011		12.70	3804.30			
15-Sep-2010		11.95	3805.05			
25-Jun-2010		13.01	3803.99			
22-Mar-2010		12.88	3804.12			
8-Dec-2009		12.82	3804.18			
28-Aug-2009		12.43	3804.57			
26-May-2009		12.44	3804.56			
10-Dec-2008		12.78	3804.22			
27-Sep-2008		12.07	3804.93			
10-Jun-2008		12.94	3804.06			
<b>Big Sky Dairy</b>						
833-01	18-Jul-2011	399617.23	1521136.33	3839.55	Dry	
	19-Apr-2011				35.44	3804.11
	17-Jan-2011				35.20	3804.35
	14-Sep-2010				34.76	3804.79
	22-Jun-2010				36.08	3803.47
	22-Mar-2010				35.49	3804.06
	8-Dec-2009				35.25	3804.30
	28-Aug-2009				35.25	3804.30
	26-May-2009				34.69	3804.86
	10-Dec-2008				34.99	3804.56
	28-Sep-2008				34.58	3804.97
	10-Jun-2008				36.13	3803.42
	5-Feb-2008				35.51	3804.04
	14-Nov-2007				35.70	3803.85
12-Sep-2007	35.79	3803.76				
833-02	18-Jul-2011	401200.32	1520639.92	3836.04	32.92	3803.12
	19-Apr-2011				31.92	3804.12
	17-Jan-2011				30.43	3805.61
	14-Sep-2010				30.34	3805.70
	22-Jun-2010				31.37	3804.67
	22-Mar-2010				30.87	3805.17
	8-Dec-2009				30.40	3805.64
	28-Aug-2009				30.58	3805.46
	26-May-2009				30.24	3805.80
	10-Dec-2008				30.13	3805.91
	28-Sep-2008				29.80	3806.24
	10-Jun-2008				31.21	3804.83
	5-Feb-2008				30.63	3805.41
	14-Nov-2007				30.60	3805.44
12-Sep-2007	30.63	3805.41				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Big Sky Dairy Continued</b>						
833-03	18-Jul-2011	401392.09	1521955.23	3867.06	Dry	
	19-Apr-2011				61.92	3805.14
	17-Jan-2011				61.02	3806.04
	14-Sep-2010				60.91	3806.15
	22-Jun-2010				61.90	3805.16
	22-Mar-2010				61.41	3805.65
	8-Dec-2009				61.16	3805.90
	28-Aug-2009				61.50	3805.56
	26-May-2009				61.26	3805.80
	10-Dec-2008				60.76	3806.30
	28-Sep-2008				61.59	3805.47
	10-Jun-2008				61.83	3805.23
	5-Feb-2008				61.11	3805.95
	14-Nov-2007				61.08	3805.98
12-Sep-2007	61.11	3805.95				
833-04	18-Jul-2011	402898.52	1520659.33	3845.79	41.05	3804.74
	19-Apr-2011				39.24	3806.55
	17-Jan-2011				38.80	3806.99
	14-Sep-2010				38.84	3806.95
	22-Jun-2010				39.19	3806.60
	22-Mar-2010				39.13	3806.66
	8-Dec-2009				38.85	3806.94
	28-Aug-2009				39.24	3806.55
	26-May-2009				39.31	3806.48
	10-Dec-2008				38.41	3807.38
	28-Sep-2008				38.42	3807.37
	10-Jun-2008				39.46	3806.33
	5-Feb-2008				38.61	3807.18
	14-Nov-2007				38.54	3807.25
12-Sep-2007	38.96	3806.83				
833-05	18-Jul-2011	399712.39	1522374.73	3865.51	63.23	3802.28
	19-Apr-2011				62.33	3803.18
	24-Jan-2011				61.90	3803.61
	14-Sep-2010				61.05	3804.46
	22-Jun-2010				61.97	3803.54
	22-Mar-2010				61.52	3803.99
	8-Dec-2009				61.39	3804.12
	28-Aug-2009				61.52	3803.99
	26-May-2009				61.14	3804.37
	10-Dec-2008				61.07	3804.44
	28-Sep-2008				60.99	3804.52
	10-Jun-2008				62.28	3803.23
	5-Feb-2008				61.52	3803.99
	833-06				18-Jul-2011	402219.48
25-Apr-2011		72.16	3806.04			
17-Jan-2011		71.43	3806.77			
14-Sep-2010		72.05	3806.15			
22-Jun-2010		72.08	3806.12			
22-Mar-2010		72.00	3806.20			
8-Dec-2009		71.92	3806.28			
28-Aug-2009		72.22	3805.98			
26-May-2009		72.02	3806.18			
10-Dec-2008		70.95	3807.25			
28-Sep-2008		70.87	3807.33			
10-Jun-2008		71.78	3806.42			
5-Feb-2008		71.47	3806.73			

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Big Sky Dairy Continued</b>						
833-07	18-Jul-2011	399298.8	1522082.75	3860.70	58.99	3801.71
	19-Apr-2011				57.95	3802.75
	17-Jan-2011				56.87	3803.83
	14-Sep-2010				56.61	3804.09
	22-Jun-2010				57.55	3803.15
	22-Mar-2010				57.05	3803.65
	8-Dec-2009				56.94	3803.76
	28-Aug-2009				57.02	3803.68
	26-May-2009				56.64	3804.06
	10-Dec-2008				56.58	3804.12
	28-Sep-2008				58.53	3802.17
	10-Jun-2008				57.88	3802.82
	5-Feb-2008				57.11	3803.59
	833-08				18-Jul-2011	400535.64
25-Apr-2011		56.54	3805.22			
17-Jan-2011		56.55	3805.21			
14-Sep-2010		56.34	3805.42			
22-Jun-2010		57.32	3804.44			
22-Mar-2010		56.83	3804.93			
8-Dec-2009		56.63	3805.13			
28-Aug-2009		56.83	3804.93			
26-May-2009		56.41	3805.35			
10-Dec-2008		56.34	3805.42			
28-Sep-2008		56.07	3805.69			
10-Jun-2008		57.46	3804.30			
5-Feb-2008		56.78	3804.98			
833-09		18-Jul-2011	398280.67	1520918.52	3826.27	
	25-Apr-2011	22.86				3803.41
	17-Jan-2011	22.87				3803.40
	15-Sep-2010	22.56				3803.71
	22-Jun-2010	23.99				3802.28
	22-Mar-2010	23.20				3803.07
	8-Dec-2009	22.87				3803.40
	28-Aug-2009	22.67				3803.60
	26-May-2009	22.40				3803.87
	10-Dec-2008	22.65				3803.62
	28-Sep-2008	22.18				3804.09
	10-Jun-2008	23.71				3802.56
	5-Feb-2008	23.23				3803.04
	833-10	18-Jul-2011				396715.89
19-Apr-2011		18.67	3802.09			
17-Jan-2011		17.80	3802.96			
15-Sep-2010		17.29	3803.47			
22-Jun-2010		18.80	3801.96			
22-Mar-2010		18.38	3802.38			
8-Dec-2009		17.72	3803.04			
28-Aug-2009		17.22	3803.54			
26-May-2009		17.40	3803.36			
10-Dec-2008		17.71	3803.05			
28-Sep-2008		16.98	3803.78			
10-Jun-2008		18.17	3802.59			
5-Feb-2008		18.11	3802.65			

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Sunset/Desert Land Dairy</b>						
257-01	18-Jul-2011	395856.31	1520572.16	3820.33	19.75	3800.58
	19-Apr-2011				18.52	3801.81
	18-Jan-2011				17.83	3802.50
	15-Sep-2010				17.15	3803.18
	22-Jun-2010				18.15	3802.18
	22-Mar-2010				18.40	3801.93
	8-Dec-2009				17.66	3802.67
	28-Aug-2009				16.99	3803.34
	26-May-2009				17.41	3802.92
	10-Dec-2008				17.87	3802.46
	27-Sep-2008				16.75	3803.58
	10-Jun-2008				17.88	3802.45
	5-Feb-2008				17.59	3802.74
	14-Nov-2007				18.53	3801.80
12-Sep-2007	18.10	3802.23				
257-02	19-Jul-2011	394728.34	1521030.29	3813.67	13.50	3800.17
	19-Apr-2011				12.59	3801.08
	18-Jan-2011				11.84	3801.83
	15-Sep-2010				10.86	3802.81
	22-Jun-2010				11.08	3802.59
	22-Mar-2010				12.22	3801.45
	8-Dec-2009				11.52	3802.15
	28-Aug-2009				10.86	3802.81
	26-May-2009				11.38	3802.29
	10-Dec-2008				11.67	3802.00
	27-Sep-2008				9.75	3803.92
	10-Jun-2008				11.82	3801.85
	5-Feb-2008				11.67	3802.00
	14-Nov-2007				12.22	3801.45
12-Sep-2007	11.55	3802.12				
257-03	18-Jul-2011	397935.69	1518746.14	3814.74	8.77	3805.97
	19-Apr-2011				9.31	3805.43
	17-Jan-2011				10.04	3804.70
	21-Sep-2010				9.26	3805.48
	22-Jun-2010				9.11	3805.63
	22-Mar-2010				10.45	3804.29
	8-Dec-2009				9.78	3804.96
	28-Aug-2009				9.43	3805.31
	26-May-2009				9.55	3805.19
	10-Dec-2008				10.26	3804.48
	27-Sep-2008				9.73	3805.01
	10-Jun-2008				9.70	3805.04
	5-Feb-2008				11.04	3803.70
	14-Nov-2007				9.03	3805.71
12-Sep-2007	9.61	3805.13				
257/260-01	18-Jul-2011	397678.36	1519948.22	3814.04	10.65	3803.39
	26-Apr-2011				11.66	3802.38
	17-Jan-2011				10.44	3803.60
	15-Sep-2010				9.94	3804.10
	22-Jun-2010				10.90	3803.14
	22-Mar-2010				10.71	3803.33
	8-Dec-2009				10.42	3803.62
	28-Aug-2009				10.11	3803.93
	26-May-2009				10.00	3804.04
	10-Dec-2008				10.48	3803.56
	27-Sep-2008				9.80	3804.24
	10-Jun-2008				11.00	3803.04
	5-Feb-2008				10.99	3803.05
	14-Nov-2007				11.21	3802.83
12-Sep-2007	NM	NM				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Additional Wells</b>						
Bruce1	18-Jul-2011	388741.02	1523777.06	3808.92	Destroyed	
	19-Apr-2011				11.17	3797.75
	17-Jan-2011				11.13	3797.79
	15-Sep-2010				10.38	3798.54
	23-Jun-2010				10.99	3797.93
	21-Mar-2010				11.50	3797.42
	8-Dec-2009				11.05	3797.87
	27-Aug-2009				10.41	3798.51
	27-May-2009				10.77	3798.15
	10-Dec-2008				11.28	3797.64
	27-Sep-2008				10.93	3797.99
	10-Jun-2008				11.28	3797.64
	5-Feb-2008				11.47	3797.45
Bruce2	5-Feb-2008	NM	NM	NM	Destroyed	
	10-Jun-2008				8.33	--
<b>SOUTHERN AREA</b>						
<b>Del Oro Dairy</b>						
692-01	18-Jul-2011	373615.88	1531529.38	3844.13	57.79	3786.34
	19-Apr-2011				57.39	3786.74
	18-Jan-2011				57.17	3786.96
	15-Sep-2010				57.57	3786.56
	30-Jun-2010				61.15	Pumping
	22-Mar-2010				58.01	3786.12
	9-Dec-2009				58.25	3785.88
	29-Aug-2009				58.19	3785.94
	26-May-2009				57.80	3786.33
	11-Dec-2008				Pumping	NM
	28-Sep-2008				Pumping	NM
	11-Jun-2008				57.75	3786.38
	6-Feb-2008				57.42	3786.71
	14-Nov-2007				57.38	3786.75
	13-Sep-2007				57.46	3786.67
692-02	18-Jul-2011	372984.72	1531192.1	3840.84	55.1	3785.74
	19-Apr-2011				54.68	3786.16
	18-Jan-2011				54.32	3786.52
	15-Sep-2010				54.39	3786.45
	30-Jun-2010				54.50	3786.34
	22-Mar-2010				54.90	3785.94
	9-Dec-2009				55.11	3785.73
	28-Aug-2009				55.03	3785.81
	26-May-2009				55.38	3785.46
	11-Dec-2008				54.93	3785.91
	28-Sep-2008				54.69	3786.15
	11-Jun-2008				54.93	3785.91
	6-Feb-2008				54.74	3786.10
	14-Nov-2007				54.42	3786.42
	13-Sep-2007				54.61	3786.23
692-04	18-Jul-2011	372982.53	1531555.21	3842.66	56.92	3785.74
	19-Apr-2011				56.47	3786.19
	18-Jan-2011				56.15	3786.51
	15-Sep-2010				55.90	3786.76
	30-Jun-2010				56.81	3785.85
	22-Mar-2010				56.81	3785.85
	8-Dec-2009				56.86	3785.80
	28-Aug-2009				56.82	3785.84
	26-May-2009				57.09	3785.57
	11-Dec-2008				56.71	3785.95
	28-Sep-2008				56.41	3786.25
	11-Jun-2008				56.54	3786.12
	6-Feb-2008				56.40	3786.26
	14-Nov-2007				55.95	3786.71
	13-Sep-2007				56.19	3786.47

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Del Oro Dairy Continued</b>						
692-05	18-Jul-2011	374807.26	1532403	3854.26	77.59	3776.67
	19-Apr-2011				76.46	3777.80
	18-Jan-2011				75.55	3778.71
	15-Sep-2010				76.14	3778.12
	30-Jun-2010				76.20	3778.06
	22-Mar-2010				75.01	3779.25
	9-Dec-2009				75.52	3778.74
	28-Aug-2009				76.15	3778.11
	26-May-2009				75.65	3778.61
	11-Dec-2008				74.95	3779.31
	28-Sep-2008				75.36	3778.90
	11-Jun-2008				75.72	3778.54
	6-Feb-2008				74.84	3779.42
	14-Nov-2007				75.90	3778.36
13-Sep-2007	75.84	3778.42				
692-06	18-Jul-2011	375054.77	1532411.83	3856.48	79.43	3777.05
	19-Apr-2011				78.32	3778.16
	18-Jan-2011				77.44	3779.04
	15-Sep-2010				78.02	3778.46
	30-Jun-2010				78.12	3778.36
	22-Mar-2010				76.91	3779.57
	9-Dec-2009				77.44	3779.04
	28-Aug-2009				78.04	3778.44
	26-May-2009				77.53	3778.95
	11-Dec-2008				76.79	3779.69
	28-Sep-2008				77.25	3779.23
	11-Jun-2008				77.60	3778.88
	6-Feb-2008				76.76	3779.72
	14-Nov-2007				77.80	3778.68
13-Sep-2007	77.75	3778.73				
692-07	18-Jul-2011	374944.88	1532019.81	3848.20	71.32	3776.88
	19-Apr-2011				70.22	3777.98
	18-Jan-2011				69.01	3779.19
	15-Sep-2010				69.72	3778.48
	30-Jun-2010				69.87	3778.33
	22-Mar-2010				68.59	3779.61
	9-Dec-2009				68.97	3779.23
	28-Aug-2009				69.71	3778.49
	26-May-2009				69.35	3778.85
	11-Dec-2008				68.38	3779.82
	28-Sep-2008				68.99	3779.21
	11-Jun-2008				69.35	3778.85
	6-Feb-2008				68.44	3779.76
	14-Nov-2007				69.46	3778.74
13-Sep-2007	69.46	3778.74				
692-08	18-Jul-2011	375535.69	1531378.09	3843.09	65.79	3777.30
	19-Apr-2011				64.32	3778.77
	18-Jan-2011				62.49	3780.60
	1-Oct-2010				63.83	3779.26
	30-Jun-2010				63.71	3779.38
	22-Mar-2010				62.45	3780.64
	9-Dec-2009				62.57	3780.52
	28-Aug-2009				63.42	3779.67
	26-May-2009				64.03	3779.06
	11-Dec-2008				61.83	3781.26
	28-Sep-2008				63.42	3779.67
	11-Jun-2008				63.40	3779.69
	6-Feb-2008				62.02	3781.07
	14-Nov-2007				63.25	3779.84
13-Sep-2007	64.02	3779.07				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Del Oro Dairy Continued</b>						
692-09	18-Jul-2011	373575.83	1532395.09	3856.32	80.78	3775.54
	19-Apr-2011				79.65	3776.67
	17-Jan-2011				78.52	3777.80
	15-Sep-2010				79.33	3776.99
	30-Jun-2010				79.52	3776.80
	22-Mar-2010				78.13	3778.19
	9-Dec-2009				78.79	3777.53
	28-Aug-2009				79.48	3776.84
	26-May-2009				78.89	3777.43
	11-Dec-2008				78.11	3778.21
	28-Sep-2008				78.55	3777.77
	11-Jun-2008				79.03	3777.29
	6-Feb-2008				78.16	3778.16
	14-Nov-2007				79.15	3777.17
13-Sep-2007	79.93	3776.39				
<b>Anthony Waste Water Treatment Plant</b>						
MW-1	18-Jul-2011	372097.86	1532364.36	3843.03	58.44	3784.59
	20-Apr-2011				58.35	3784.68
	18-Jan-2011				58.20	3784.83
	15-Sep-2010				58.28	3784.75
	24-Jun-2010				58.50	3784.53
	22-Mar-2010				58.43	3784.60
	9-Dec-2009				58.15	3784.88
	28-Aug-2009				58.07	3784.96
	27-May-2009				58.41	3784.62
MW-2	18-Jul-2011	NM	NM	3843.25	59.41	3783.84
	20-Apr-2011				59.42	3783.83
	18-Jan-2011				59.31	3783.94
	15-Sep-2010				59.08	3784.17
	24-Jun-2010				59.37	3783.88
	22-Mar-2010				59.44	3783.81
	9-Dec-2009				59.19	3784.06
	28-Aug-2009				58.98	3784.27
	27-May-2009				59.45	3783.80
MW-3	18-Jul-2011	NM	NM	3841.24	56.98	3784.26
	19-Apr-2011				56.93	3784.31
	18-Jan-2011				56.73	3784.51
	15-Sep-2010				Could not access	
	24-Jun-2010				56.91	3784.33
	22-Mar-2010				56.93	3784.31
	9-Dec-2009				56.69	3784.55
	28-Aug-2009				56.54	3784.70
	27-May-2009				56.96	3784.28
	<b>ABATEMENT PLAN MONITOR WELLS</b>					
DAD-01	19-Jul-2011	422970.59	1512825.76	3886.16	67.41	3818.75
	25-Apr-2011				65.86	3820.30
	18-Jan-2011				65.37	3820.79
	16-Sep-2010				65.86	3820.30
	24-Jun-2010				66.58	3819.58
	21-Mar-2010				65.46	3820.70
	9-Dec-2009				65.32	3820.84
	29-Aug-2009				65.68	3820.48
	26-May-2009				65.43	3820.73
DAD-02	19-Jul-2011	413002.98	1517319.93	3875.82	62.63	3813.19
	18-Apr-2011				62.11	3813.71
	17-Jan-2011				61.37	3814.45
	16-Sep-2010				61.79	3814.03
	25-Jun-2010				62.95	3812.87
	21-Mar-2010				61.43	3814.39
	9-Dec-2009				61.46	3814.36
	29-Aug-2009				61.65	3814.17
	26-May-2009				61.59	3814.23



**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Abatement Plan Monitor Wells Continued</b>						
DAD-03	19-Jul-2011	407721.31	1516497.85	3820.58	10.29	3810.29
	18-Apr-2011				10.12	3810.46
	24-Jan-2011				9.36	3811.22
	16-Sep-2010				9.40	3811.18
	24-Jun-2010				9.97	3810.61
	21-Mar-2010				9.90	3810.68
	9-Dec-2009				9.79	3810.79
	29-Aug-2009				9.72	3810.86
	26-May-2009				9.89	3810.69
DAD-04	19-Jul-2011	404576.66	1517413.28	3821.47	13.63	3807.84
	18-Apr-2011				13.21	3808.26
	17-Jan-2011				12.71	3808.76
	16-Sep-2010				12.14	3809.33
	23-Jun-2010				12.59	3808.88
	21-Mar-2010				12.88	3808.59
	9-Dec-2009				12.10	3809.37
	29-Aug-2009				12.13	3809.34
	26-May-2009				12.31	3809.16
DAD-05	18-Jul-2011	396712.87	1519102.06	3816.01	12.31	3803.70
	18-Apr-2011				12.58	3803.43
	17-Jan-2011				12.50	3803.51
	16-Sep-2010				11.87	3804.14
	23-Jun-2010				12.95	3803.06
	21-Mar-2010				12.92	3803.09
	9-Dec-2009				12.13	3803.88
	29-Aug-2009				11.85	3804.16
	26-May-2009				12.07	3803.94
DAD-06	18-Jul-2011	404273.19	1522081.00	3887.71	80.94	3806.77
	20-Apr-2011				80.16	3807.55
	17-Jan-2011				79.43	3808.28
	16-Sep-2010				79.68	3808.03
	25-Jun-2010				80.33	3807.38
	21-Mar-2010				79.85	3807.86
	9-Dec-2009				79.95	3807.76
	29-Aug-2009				80.46	3807.25
	26-May-2009				80.32	3807.39
DAD-07	18-Jul-2011	399270.18	1524320.88	3891.38	88.98	3802.40
	20-Apr-2011				88.34	3803.04
	17-Jan-2011				87.94	3803.44
	16-Sep-2010				88.29	3803.09
	25-Jun-2010				88.49	3802.89
	21-Mar-2010				88.00	3803.38
	9-Dec-2009				88.19	3803.19
	29-Aug-2009				88.45	3802.93
	26-May-2009				88.14	3803.24
DAD-08	18-Jul-2011	395287.38	1522575.07	3849.15	49.97	3799.18
	20-Apr-2011				48.87	3800.28
	18-Jan-2011				47.80	3801.35
	17-Sep-2010				47.05	3802.10
	25-Jun-2010				48.06	3801.09
	21-Mar-2010				47.76	3801.39
	9-Dec-2009				47.42	3801.73
	29-Aug-2009				47.18	3801.97
	26-May-2009				47.38	3801.77
DAD-09	18-Jul-2011	373259.30	1530905.70	3838.03	52.28	3785.75
	18-Apr-2011				51.89	3786.14
	17-Jan-2011				51.09	3786.94
	17-Sep-2010				51.55	3786.48
	29-Jun-2010				52.20	3785.83
	21-Mar-2010				51.84	3786.19
	9-Dec-2009				52.12	3785.91
	29-Aug-2009				52.23	3785.80
	26-May-2009				52.49	3785.54

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Abatement Plan Monitor Wells Continued</b>						
DAD-10	18-Jul-2011	372980.55	1532375.33	3854.93	80.29	3774.64
	20-Apr-2011				79.13	3775.80
	17-Jan-2011				77.82	3777.11
	17-Sep-2010				78.66	3776.27
	29-Jun-2010				78.59	3776.34
	21-Mar-2010				77.19	3777.74
	9-Dec-2009				77.92	3777.01
	29-Aug-2009				78.72	3776.21
	26-May-2009				77.90	3777.03
NOTES:						
<sup>a</sup> Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)						
<sup>b</sup> Vertical Control to NAVD88 Datum in feet above mean sea level						
<sup>c</sup> Measured in feet below the top of casing at survey point on north side of well						
<sup>d</sup> Measured in feet						
Wells were gauged on a different date by Magee and Associates Inc.						
Wells were gauged on a different date by EnviroCompliance Inc.						
Measured data were suspect and corrected to reflect appropriate trends in accordance with surrounding wells						

**TABLE 2. SUMMARY OF DRAIN GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Reference Point Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Groundwater Elevation <sup>b</sup>
DX1	18-Jul-2011	424166.25	1505650.06	3841.14	5.44	3835.70
	18-Apr-2011				Dry	Dry
	17-Jan-2011				6.60	3834.54
	14-Sep-2010				5.46	3835.68
	24-Jun-2010				5.30	3835.84
	22-Mar-2010				Dry	Dry
	8-Dec-2009				Dry	Dry
	28-Aug-2009				3.88	3837.26
	27-May-2009				4.98	3836.16
	11-Dec-2008				Dry	Dry
	28-Sep-2008				4.50	3836.64
	10-Jun-2008				5.00	3836.14
	6-Feb-2008				Dry	Dry
	18-Nov-2007				Dry	Dry
	27-Oct-2007				Dry	Dry
13-Sep-2007	NM	NM				
DX1w	18-Jul-2011	424185.98	1505134.10	3833.91	Dry	Dry
	18-Apr-2011				Dry	Dry
	17-Jan-2011				8.77	3825.14
	14-Sep-2010				5.79	3828.12
	24-Jun-2010				6.29	3827.62
	22-Mar-2010				Dry	Dry
	8-Dec-2009				Dry	Dry
	28-Aug-2009				5.43	3828.48
	27-May-2009				6.25	3827.66
	11-Dec-2008				5.79	3828.12
	28-Sep-2008				5.50	3828.41
	10-Jun-2008				6.38	3827.53
	6-Feb-2008				Dry	Dry
	18-Nov-2007				5.48	3828.43
	27-Oct-2007				5.58	3828.33
13-Sep-2007	0.80	3833.11				
DX2	19-Jul-2011	424132.59	1503432.16	3845.54	Dry	Dry
	18-Apr-2011				Dry	Dry
	17-Jan-2011				11.33	3834.21
	14-Sep-2010				Dry	Dry
	24-Jun-2010				9.03	3836.51
	22-Mar-2010				Dry	Dry
	8-Dec-2009				NM	NM
	28-Aug-2009				10.40	3835.14
	27-May-2009				9.68	3835.86
	11-Dec-2008				NM	NM
	28-Sep-2008				NM	NM
	10-Jun-2008				NM	NM
	6-Feb-2008				Dry	Dry
	18-Nov-2007				Dry	Dry
	27-Oct-2007				Dry	Dry
13-Sep-2007	5.00	3840.54				
DX3	18-Jul-2011	407227.41	1516041.38	3817.20	Too much debris to measure	
	18-Apr-2011				Dry	Dry
	17-Jan-2011				7.11	3810.09
	15-Sep-2010				6.20	3811.00
	23-Jun-2010				7.21	3809.99
	22-Mar-2010				7.15	3810.05
	8-Dec-2009				7.27	3809.93
	28-Aug-2009				6.85	3810.35
	27-May-2009				7.92	3809.28
	11-Dec-2008				7.46	3809.74
	28-Sep-2008				7.24	3809.96
	10-Jun-2008				6.63	3810.57
	6-Feb-2008				7.17	3810.03
	18-Nov-2007				7.19	3810.01
	27-Oct-2007				7.10	3810.10
13-Sep-2007	0.70	3816.50				
DX4	18-Jul-2011	407211.53	1514313.56	3824.28	6.27	3818.01
	18-Apr-2011				Dry	Dry
	17-Jan-2011				7.21	3817.07
	15-Sep-2010				5.00	3819.28
	23-Jun-2010				1.00	3823.28
	22-Mar-2010				Dry	Dry
	8-Dec-2009				NM	NM
	28-Aug-2009				2.20	3822.08
	27-May-2009				1.72	3822.56
	11-Dec-2008				Dry	Dry
	28-Sep-2008				1.57	3822.71
	10-Jun-2008				2.63	3821.65
	6-Feb-2008				Dry	Dry
	18-Nov-2007				Dry	Dry
	27-Oct-2007				Dry	Dry
13-Sep-2007	3.50	3820.78				

**TABLE 2. SUMMARY OF DRAIN GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Reference Point Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Groundwater Elevation <sup>b</sup>
DX5	18-Jul-2011	407220.67	1511845.72	3817.15	Too much debris to measure	
	18-Apr-2011				Dry	Dry
	17-Jan-2011				Could not access	
	15-Sep-2010				Could not access	
	23-Jun-2010				NM	NM
	22-Mar-2010				NM	NM
	8-Dec-2009				NM	NM
	28-Aug-2009				NM	NM
	27-May-2009				Dry	Dry
	11-Dec-2008				3.30	3813.85
	28-Sep-2008				5.00	3812.15
	10-Jun-2008				3.25	3813.90
	6-Feb-2008				NM	NM
	18-Nov-2007				2.73	3814.42
	27-Oct-2007				3.17	3813.98
13-Sep-2007	0.50	3816.65				
DX6	18-Jul-2011	399312.69	1517575.21		dry	dry
DX8	18-Jul-2011	399295.54	1519306.03	3808.70	Dry	Dry
	18-Apr-2011				3.05	3805.65
	17-Jan-2011				3.68	3805.02
	15-Sep-2010				3.42	3805.28
	23-Jun-2010				4.20	3804.50
	22-Mar-2010				4.28	3804.42
	8-Dec-2009				3.78	3804.92
	28-Aug-2009				3.50	3805.20
	27-May-2009				3.70	3805.00
	11-Dec-2008				4.00	3804.70
	28-Sep-2008				3.17	3805.53
	10-Jun-2008				4.10	3804.60
	6-Feb-2008				4.71	3803.99
	18-Nov-2007				4.67	3804.03
	27-Oct-2007				4.54	3804.16
13-Sep-2007	1.20	3807.50				
DX10	18-Jul-2011	388729.50	1521819.50	3800.26	Drainage replaced road repaved	
	18-Apr-2011				3.16	3797.10
	17-Jan-2011				3.00	3797.26
	15-Sep-2010				Measuring point destroyed	
	23-Jun-2010				NM	NM
	21-Mar-2010				2.29	3797.97
	8-Dec-2009				2.22	3798.04
	27-Aug-2009				1.75	3798.51
	27-May-2009				1.87	3798.39
	11-Dec-2008				2.03	3798.23
	28-Sep-2008				1.51	3798.75
	10-Jun-2008				2.42	3797.84
	6-Feb-2008				3.91	3796.35
	18-Nov-2007				2.68	3797.58
	27-Oct-2007				2.52	3797.74
13-Sep-2007	2.20	3798.06				
DX11	18-Jul-2011	388713.30	1522640.15	3810.25	3.19	3807.06
	18-Apr-2011				Dry	Dry
	17-Jan-2011				2.60	3807.65
	15-Sep-2010				Dry	Dry
	23-Jun-2010				NM	NM
	21-Mar-2010				Dry	Dry
	8-Dec-2009				Dry	Dry
	27-Aug-2009				4.84	3805.41
	11-Dec-2008				4.32	3805.93
	11-Dec-2008				Dry	Dry
	28-Sep-2008				4.74	3805.51
	10-Jun-2008				5.51	3804.74
	6-Feb-2008				Dry	Dry
	18-Nov-2007				Dry	Dry
	27-Oct-2007				Dry	Dry
13-Sep-2007	Dry	Dry				
DX12	18-Jul-2011	372993.14	1526753.61	3796.24	9.48	3786.76
	18-Apr-2011				8.85	3787.39
	17-Jan-2011				9.22	3787.02
	15-Sep-2010				8.55	3787.69
	23-Jun-2010				8.00	3788.24
	21-Mar-2010				9.10	3787.14
	8-Dec-2009				8.97	3787.27
	27-Aug-2009				8.34	3787.90
	27-May-2009				8.50	3787.74
	11-Dec-2008				8.71	3787.53
	28-Sep-2008				7.47	3788.77
	10-Jun-2008				8.55	3787.69
	6-Feb-2008				9.11	3787.13
	18-Nov-2007				8.94	3787.30
	27-Oct-2007				8.69	3787.55
13-Sep-2007	2.00	3794.24				

**TABLE 2. SUMMARY OF DRAIN GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Reference Point Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Groundwater Elevation <sup>b</sup>
DX16	18-Jul-2011	372996.10	1527610.40	3801.57	8.52	3793.05
	18-Apr-2011				Dry	Dry
	17-Jan-2011				8.27	3793.30
	15-Sep-2010				Dry	Dry
	23-Jun-2010				7.29	3794.28
	21-Mar-2010				Dry	Dry
	8-Dec-2009				Dry	Dry
	27-Aug-2009				7.34	3794.23
	27-May-2009				Dry	Dry
	11-Dec-2008				Dry	Dry
	28-Sep-2008				2.94	3798.63
	10-Jun-2008				7.02	3794.55
	6-Feb-2008				Dry	Dry
	18-Nov-2007				Dry	Dry
	27-Oct-2007				Dry	Dry
13-Sep-2007	2.00	3799.57				
DX17	18-Jul-2011	378284.74	1524969.06	3794.07	4.01	3790.06
	18-Apr-2011				3.81	3790.26
	17-Jan-2011				3.99	3790.08
	15-Sep-2010				3.49	3790.58
	23-Jun-2010				3.21	3790.86
	21-Mar-2010				3.89	3790.18
	8-Dec-2009				3.71	3790.36
	27-Aug-2009				3.21	3790.86
	27-May-2009				3.25	3790.82
	11-Dec-2008				2.41	3791.66
	28-Sep-2008				1.61	3792.46
	10-Jun-2008				3.24	3790.83
	6-Feb-2008				3.64	3790.43
	18-Nov-2007				3.45	3790.62
	27-Oct-2007				NM	NM
13-Sep-2007	NM	NM				
DX18	18-Jul-2011	383440.21	1522863.03	3799.50	5.12	3794.38
	18-Apr-2011				3.34	3796.16
	17-Jan-2011				5.17	3794.33
	15-Sep-2010				5.00	3794.50
	23-Jun-2010				4.81	3794.69
	21-Mar-2010				5.37	3794.13
	8-Dec-2009				5.61	3793.89
	27-Aug-2009				4.98	3794.52
	27-May-2009				5.11	3794.39
	11-Dec-2008				5.50	3794.00
	28-Sep-2008				4.21	3795.29
	10-Jun-2008				5.40	3794.10
	6-Feb-2008				5.95	3793.55
	18-Nov-2007				5.43	3794.07
	27-Oct-2007				NM	NM
13-Sep-2007	NM	NM				
DX19	18-Jul-2011	370359.76	1527083.49	3789.58	4.96	3784.62
	18-Apr-2011				4.32	3785.26
	17-Jan-2011				4.30	3785.28
	15-Sep-2010				3.88	3785.70
	23-Jun-2010				3.78	3785.80
	21-Mar-2010				4.39	3785.19
	8-Dec-2009				4.07	3785.51
	27-Aug-2009				3.72	3785.86
	27-May-2009				4.01	3785.57
	11-Dec-2008				3.89	3785.69
	28-Sep-2008				3.15	3786.43
	10-Jun-2008				3.84	3785.74
	6-Feb-2008				4.06	3785.52
	18-Nov-2007				4.08	3785.50
	27-Oct-2007				NM	NM
13-Sep-2007	NM	NM				
DX20	18-Jul-2011	404509.20	1517383.56	3812.01	3.18	3808.83
	18-Apr-2011				2.81	3809.20
	17-Jan-2011				2.35	3809.66
	15-Sep-2010				2.58	3809.43
	23-Jun-2010				3.03	3808.98
	22-Mar-2010				3.25	3808.76
	8-Dec-2009				3.00	3809.01
	28-Aug-2009				2.28	3809.73
	27-May-2009				2.88	3809.13
	11-Dec-2008				3.04	3808.97
	28-Sep-2008				2.38	3809.63
	10-Jun-2008				3.33	3808.68
	6-Feb-2008				4.02	3807.99
	18-Nov-2007				3.95	3808.06
	27-Oct-2007				NM	NM
13-Sep-2007	NM	NM				

**TABLE 2. SUMMARY OF DRAIN GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Reference Point Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Groundwater Elevation <sup>b</sup>
DX21	18-Apr-2011	397941.90	1519301.66	3814.31	8.72	3805.59
	17-Jan-2011				8.66	3805.65
	15-Sep-2010				9.40	3804.91
	23-Jun-2010				8.91	3805.40
	22-Mar-2010				Dry	Dry
	8-Dec-2009				NM	NM
	28-Aug-2009				8.54	3805.77
	26-May-2009				NM	NM
	11-Dec-2008				11.40	3802.91
	28-Sep-2008				10.40	3803.91
	10-Jun-2008				11.20	3803.11
	6-Feb-2008				11.16	3803.15
	18-Nov-2007				11.37	3802.94
	27-Oct-2007				NM	NM
	13-Sep-2007				NM	NM
DX22	18-Jul-2011	396687.18	1519046.47	3807.36	3.75	3803.61
	18-Apr-2011				3.25	3804.11
	17-Jan-2011				3.60	3803.76
	15-Sep-2010				3.53	3803.83
	23-Jun-2010				3.90	3803.46
	22-Mar-2010				4.09	3803.27
	8-Dec-2009				3.82	3803.54
	28-Aug-2009				3.91	3803.45
	26-May-2009				3.71	3803.65
	11-Dec-2008				3.75	3803.61
	28-Sep-2008				2.80	3804.56
	10-Jun-2008				3.69	3803.67
	6-Feb-2008				4.42	3802.94
	18-Nov-2007				4.59	3802.77
	27-Oct-2007				NM	NM
13-Sep-2007	NM	NM				
DX23	18-Jul-2011	394041.08	1518228.68	3804.82	Dry	Dry
	18-Apr-2011				3.51	3801.31
	17-Jan-2011				3.20	3801.62
	15-Sep-2010				2.45	3802.37
	23-Jun-2010				2.98	3801.84
	22-Mar-2010				3.38	3801.44
	8-Dec-2009				3.16	3801.66
	28-Aug-2009				2.60	3802.22
	26-May-2009				2.67	3802.15
	11-Dec-2008				3.04	3801.78
	28-Sep-2008				2.09	3802.73
	10-Jun-2008				2.88	3801.94
	6-Feb-2008				3.45	3801.37
	18-Nov-2007				3.21	3801.61
	27-Oct-2007				NM	NM
13-Sep-2007	NM	NM				
DX24	18-Jul-2011	391382.99	1519639.89	3803.73	4.26	3799.47
	18-Apr-2011				4.21	3799.52
	17-Jan-2011				3.65	3800.08
	15-Sep-2010				3.31	3800.42
	23-Jun-2010				3.63	3800.10
	22-Mar-2010				3.99	3799.74
	8-Dec-2009				3.62	3800.11
	28-Aug-2009				3.22	3800.51
	26-May-2009				3.39	3800.34
	11-Dec-2008				3.74	3799.99
	28-Sep-2008				2.98	3800.75
	10-Jun-2008				3.69	3800.04
	6-Feb-2008				4.17	3799.56
	18-Nov-2007				4.92	3798.81
	27-Oct-2007				NM	NM
13-Sep-2007	NM	NM				
DX25	18-Jul-2011	421480.90	1506896.42	3828.42	Dry	Dry
	18-Apr-2011				Dry	Dry
	17-Jan-2011				6.12	3822.30
	15-Sep-2010				Dry	Dry
	24-Jun-2010				Dry	Dry
	22-Mar-2010				Dry	Dry
	8-Dec-2009				Dry	Dry
	28-Aug-2009				NM	NM
	27-May-2009				NM	NM
	11-Dec-2008				4.72	3823.70
28-Sep-2008	4.00	3824.42				

**TABLE 2. SUMMARY OF DRAIN GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Reference Point Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Groundwater Elevation <sup>b</sup>				
DX26	19-Jul-2011	419688.41	1509069.57	3833.96	Dry	Dry				
	18-Apr-2011				Dry	Dry				
	17-Jan-2011				11.11	3822.85				
	15-Sep-2010				Dry	Dry				
	24-Jun-2010				Dry	Dry				
	22-Mar-2010				Dry	Dry				
	8-Dec-2009				Dry	Dry				
	28-Aug-2009				11.22	3822.74				
	27-May-2009				11.49	3822.47				
	11-Dec-2008				11.75	3822.21				
	28-Sep-2008				11.24	3822.72				
	DX27				18-Jul-2011	418540.04	1509739.11	3825.33	4.42	3820.91
					18-Apr-2011				5.41	3819.92
17-Jan-2011		4.60	3820.73							
15-Sep-2010		4.70	3820.63							
24-Jun-2010		Dry	Dry							
22-Mar-2010		Dry	Dry							
28-Aug-2009		Not accessible								
28-Aug-2009		4.11	3821.22							
27-May-2009		4.18	3821.15							
11-Dec-2008		4.77	3820.56							
28-Sep-2008		4.18	3821.15							
DX28		18-Jul-2011	417290.39	1510464.06	3827.47				Too Much debris to measure	
		18-Apr-2011							Dry	Dry
	17-Jan-2011	7.13				3820.34				
	15-Sep-2010	7.00				3820.47				
	24-Jun-2010	6.25				3821.22				
	22-Mar-2010	Dry				Dry				
	8-Dec-2009	7.16				3820.31				
	28-Aug-2009	7.04				3820.43				
	27-May-2009	7.16				3820.31				
	11-Dec-2008	7.15				3820.32				
	28-Sep-2008	6.80				3820.67				
	DX29	18-Jul-2011				416144.40	1511115.46	3823.15	3.42	3819.73
		18-Apr-2011							3.82	3819.33
17-Jan-2011		3.39	3819.76							
15-Sep-2010		3.50	3819.65							
24-Jun-2010		1.86	3821.29							
22-Mar-2010		3.90	3819.25							
8-Dec-2009		3.65	3819.50							
28-Aug-2009		3.63	3819.52							
27-May-2009		3.78	3819.37							
11-Dec-2008		4.01	3819.14							
28-Sep-2008		3.54	3819.61							
DX30		18-Jul-2011	141912.63	1511830.23	3824.93				8.69	3816.24
		18-Apr-2011							Dry	Dry
	17-Jan-2011	6.43				3818.50				
	15-Sep-2010	6.55				3818.38				
	24-Jun-2010	9.97				3814.96				
	22-Mar-2010	7.23				3817.70				
	8-Dec-2009	6.98				3817.95				
	28-Aug-2009	7.10				3817.83				
	27-May-2009	6.72				3818.21				
	11-Dec-2008	7.00				3817.93				
	28-Sep-2008	6.68				3818.25				
	DX31	18-Jul-2011				409811.34	1514758.21	3820.29	Dry	Dry
		18-Apr-2011							Dry	Dry
17-Jan-2011		6.22	3814.07							
15-Sep-2010		Dry	Dry							
24-Jun-2010		Dry	Dry							
22-Mar-2010		7.19	3813.10							
8-Dec-2009		7.45	3812.84							
28-Aug-2009		7.15	3813.14							
27-May-2009		7.33	3812.96							
11-Dec-2008		Dry								
28-Sep-2008		7.23	3813.06							

NOTES:  
<sup>a</sup> Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)  
<sup>b</sup> Vertical Control to NAVD88 Datum in feet above mean sea level  
<sup>c</sup> Measured in feet (north side of drain)  
<sup>d</sup> Measured in feet  
Data Suspect

**TABLE 3. SUMMARY OF SAMPLE ANALYTICAL METHODS AND COLLECTION REQUIREMENTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Target Analytes	Analytical Method	Sample Container	Preservative	Holding Time
<b>Groundwater Samples</b>				
Nitrate/Nitrite	EPA 300.0/SM 4500 NO3 E	250 mL HDPE Bottle	H <sub>2</sub> SO <sub>4</sub> to pH,2, Cool to <6°C,	28 Days
Total Kjeldhal Nitrogen	SM 4500 NORG C	250 mL HDPE Bottle	H <sub>2</sub> SO <sub>4</sub> to pH,2, Cool to <6°C,	28 Days
Chloride	EPA 300.0	250 mL HDPE Bottle	Cool to <6°C	28 Days
Total Dissolved Solids	SM 2540 C MOD	250 mL HDPE Bottle	Cool to <6°C	28 Days
NOTES: °C = Degree Celsius ASTM = American Society for Testing and Materials EPA = U.S. Environmental Protection Agency HDPE = High-density polyethylene				



**TABLE 4. ABATEMENT PLAN MONITORING WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
<b>Abatement Plan Monitoring Wells</b>						
DAD-01	20-Jul-11	12.0	2.38	426	1,650	NA
	20-Apr-11	10.3	<2.17	460	1,710	NA
	24-Jan-11	19.8	3.50	408	1,820	NA
	16-Sep-10	7.56	<10.0	439	1,800	NA
	29-Jun-10	8.55	<1.0	491	2,120	NA
	21-Mar-10	6.3	<5.0	500	1,780	NA
	9-Dec-09	7.5	1.5	550	2,010	NA
	9-Dec-09	7.3	2.8	468	356	264
	29-Aug-09	7.3	<5.0	540	1,970	NA
	12-May-09	5.6	<1.0	540	1,800	NA
DAD-02	20-Jul-11	7.66	<2.17	374	1,750	NA
	21-Apr-11	7.97	<2.17	434	1,760	NA
	24-Jan-11	6.38	2.80	443	2,240	NA
	16-Sep-10	3.44	<10.0	385	1,790	NA
	29-Jun-10	8.11	<0.5	364	1,870	NA
	21-Mar-10	8.1	<1.0	420	1,970	NA
	9-Dec-09	9.0	<1.0	440	1,920	NA
	9-Dec-09	9	0.39	388	1,970	586
	29-Aug-09	9.9	<2.0	490	1,890	NA
	14-May-09	7.4	<5.0	350	1,700	NA
DAD-03 *	20-Jul-11	<1.00	3.22	1,630	4,720	NA
	21-Apr-11	<0.500	<2.17	1,870	5,600	NA
	24-Jan-11	<0.00955	4.20	1,590	4,660	NA
	16-Sep-10	0.217	<10.0	1,370	4,320	NA
	29-Jun-10	<0.5	6.18	1,570	5,150	NA
	21-Mar-10	<10	<1.0	2,200	5,620	NA
	9-Dec-09	<10	<5.0	2,100	5,590	NA
	9-Dec-09	<0.1	0.88	1,570	5,300	1,160
	29-Aug-09	<0.10	<5.0	1,400	4,420	NA
	12-May-09	<10	<5.0	1,200	5,000	NA
DAD-04	20-Jul-11	<0.500	<2.17	670	2,540	NA
	20-Apr-11	<0.500	<2.17	584	2,570	NA
	24-Jan-11	<0.00955	2.66	608	2,400	NA
	16-Sep-10	<0.100	<10.0	683	2,560	NA
	29-Jun-10	<0.5	1.4	570	2,330	NA
	29-Jun-10	<0.5	1.4	570	2,330	NA
	21-Mar-10	<2.0	<2.0	620	2,460	NA
	9-Dec-09	<2.0	1.7	810	2,720	NA
	9-Dec-09	<0.1	1.2	659	2,630	373
	29-Aug-09	<2.0	<5.0	690	2,690	NA
	13-May-09	<2.0	<5.0	690	2,700	NA

**TABLE 4. ABATEMENT PLAN MONITORING WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-05	20-Jul-11	<0.500	5.04	599	2,460	NA
	20-Apr-11	<0.500	<2.17	430	1,810	NA
	20-Jan-11	0.128	2.10	477	1,870	NA
	16-Sep-10	<2.50	<10.0	536	2,220	NA
	29-Jun-10	< 0.5	1.1	627	2,550	NA
	21-Mar-10	<2.0	<1.0	630	2,340	NA
	9-Dec-09	<2.0	1.3	710	2,420	NA
	9-Dec-09	<0.1	0.95	563	2,290	362
	29-Aug-09	<2.0	<2.0	630	2,310	NA
	13-May-09	<2.0	<5.0	640	2,700	NA
Duplicate	13-May-09	<10	1.6	618	2,260	NA
DAD-06	20-Jul-11	18.0	3.64	358	1,370	NA
	21-Apr-11	18.0	<2.17	349	1,330	NA
	24-Jan-11	12.2	2.10	360	1,270	NA
	16-Sep-10	9.20	<10.0	359	1,370	NA
	29-Jun-10	11.6	<2.0	365	1,460	NA
	21-Mar-10	10	<2.0	390	1,390	NA
	9-Dec-09	10	<1.0	380	1,380	NA
	9-Dec-09	8.6	0.36	354	1,440	262
	29-Aug-09	8.2	<5.0	390	1,260	NA
	14-May-09	11	<5.0	350	1,300	NA
Duplicate	14-May-09	8.17	0.4	338	1,250	NA
DAD-07	20-Jul-11	4.67	2.80	554	1,880	NA
	20-Apr-11	4.14	<2.17	525	1,780	NA
	19-Jan-11	0.410	<2.05	518	1,740	NA
	16-Sep-10	<2.50	<10.0	637	1,990	NA
	29-Jun-10	5.17	<0.5	569	2,060	NA
	21-Mar-10	5.1	<1.0	640	1,970	NA
	9-Dec-09	5.4	<1.0	620	1,900	NA
	9-Dec-09	5.2	<0.1	536	1,870	403
	29-Aug-09	4.4	<5.0	610	1,780	NA
	14-May-09	4.6	<1.0	530	1,800	NA
DAD-08	20-Jul-11	3.36	3.78	1,320	3,060	NA
	20-Apr-11	4.33	<2.17	1,300	3,280	NA
	19-Jan-11	<0.239	2.10	1,240	2,600	NA
	17-Sep-10	<2.50	<10.0	1,370	3,230	NA
	29-Jun-10	2.53	<1.0	1,290	5,950	NA
	21-Mar-10	<4.0	<1.0	1,300	3,270	NA
	9-Dec-09	<4.0	<1.0	1,400	3,290	NA
	9-Dec-09	3.1	0.26	1,400	3,070	509
	29-Aug-09	<4.0	<2.0	1,500	3,180	NA
	14-May-09	3.0	<5.0	1,300	3,600	NA

**TABLE 4. ABATEMENT PLAN MONITORING WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-09  NMED Split	20-Jul-11	70.2	<2.17	727	2,500	NA
	20-Apr-11	47.5	<2.17	483	1,910	NA
	19-Jan-11	42.8	2.38	745	2,600	NA
	17-Sep-10	22.6	<10.0	204	47	NA
	29-Jun-10	59.2	<5.0	667	2,240	NA
	21-Mar-10	29	<5.0	290	1,190	NA
	9-Dec-09	26	<5.0	300	1,190	NA
	9-Dec-09	22	1.6	228	1,170	152
	29-Aug-09	46	<5.0	640	2,320	NA
	13-May-09	44	<5.0	740	2,400	NA
DAD-10  NMED Split	20-Jul-11	2.29	<2.17	383	1,290	NA
	20-Apr-11	1.30	<2.17	411	1,340	NA
	19-Jan-11	12.7	2.10	429	1,140	NA
	17-Sep-10	2.73	<10.0	404	1,320	NA
	29-Jun-10	1.28	<1.0	390	1,360	NA
	21-Mar-10	<2.0	<1.0	420	1,380	NA
	9-Dec-09	1.4	<1.0	460	1,360	NA
	9-Dec-09	1.5	<0.1	378	1,340	196
	29-Aug-09	1.2	<1.0	420	1,340	NA
	14-May-09	<2.0	<1.0	410	1,300	NA
<b>NMWQCC Standard</b>		<b>10</b>	<b>NA</b>	<b>250</b>	<b>1,000</b>	<b>600</b>
<p>NOTES:            Shading indicates exceedence of NMWQCC standard            NA = Not analyzed            ND = Non detect            NMWQCC = New Mexico Water Quality Control Commission            TDS = Total dissolved solids            TKN = Total Kjeldahl Nitrogen            * = DAD-03 (6-29-10) Roots in sample may have resulted in a measured TKN result.</p>						

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
<b>Northern Area</b>					
<b>Northern Land Application Area</b>					
70-03	3-Aug-11	63.1	2.80	3,140	8,040
	21-Apr-11	58.9	<2.17	3,130	8,040
	27-Jan-11	71.2	3.36	3,140	7,580
	22-Sep-10	62.8	<10.0	2,940	7,840
	30-Jun-10	57	<1.0	2,200	5,720
	26-Mar-10	29.6	ND	2,160	5,180
	15-Dec-09	27.1	ND	2,199	5,462
	2-Sep-09	25.4	ND	2,149	5,570
	4-Jun-09	18.6	ND	1,999	5,518
	4-Mar-09	35.5	ND	2,074	5,418
70/86/340-01	25-Jul-11	31.0	2.24	1,800	5,500
	21-Apr-11	35.0	<2.17	1,780	5,420
	27-Jan-11	53.5	<2.17	1,370	4,420
	22-Sep-10	39.8	<10.0	1,130	4,000
	30-Jun-10	52	<1.0	1,300	4,090
	26-Mar-10	53	ND	1,200	3,616
	15-Dec-09	64	ND	1,080	3,408
	2-Sep-09	50	ND	1,100	3,610
	4-Jun-09	28	ND	1,410	4,340
4-Mar-09	39.3	ND	1,150	3,820	
86/340-01	25-Jul-11	10.2	<2.17	582	2,500
	21-Apr-11	10.4	<2.17	512	2,660
	27-Jan-11	7.99	<2.17	419	2,040
	22-Sep-10	11.8	<10.0	331	2,060
	30-Jun-10	13	<1.0	410	2,190
	26-Mar-10	9.2	0.7	690	2,656
	29-Jan-10	8.6	ND	530	2,258
	2-Sep-09	8.8	ND	510	2,232
	4-Jun-09	5.2	1.12	640	2,582
	4-Mar-09	11.9	ND	675	2,674
<b>Former Daybreak Dairy (Del Norte Dairy)</b>					
126-04	3-Aug-11	18.2	6.44	559	2,460
	22-Apr-11	18.0	5.74	594	2,500
	26-Jan-11	11.1	<2.17	570	2,380
	21-Sep-10	20.5	<10.0	542	2,460
	30-Jun-10	21	<5.0	490	2,160
	25-Mar-10	14.9	0.56	530	1,964
	15-Dec-09	11.5	ND	550	1,974
	2-Sep-09	9	ND	530	2,028
	4-Jun-09	5.81	ND	550	2,084
	5-Mar-09	14.1	ND	525	2,122

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
126-05	4-Aug-11	29.5	4.20	525	2,540
	22-Apr-11	28.0	2.80	615	2,800
	26-Jan-11	25.2	3.64	553	2,870
	21-Sep-10	22.3	<10.0	504	2,240
	30-Jun-10	24	<5.0	540	2,750
	25-Mar-10	13.5	ND	640	2,736
	15-Dec-09	16.6	ND	630	2,554
	2-Sep-09	12.8	1.4	580	2,566
	4-Jun-09	10.1	ND	600	2,640
	5-Mar-09	19.9	1.03	610	2,828
126-07	4-Aug-11	19.1	2.24	666	1,410
	22-Apr-11	21.2	<2.17	704	3,110
	27-Jan-11	22.4	<2.17	662	2,670
	21-Sep-10	24.9	<10.0	700	2,800
	30-Jun-10	26	<5.0	760	2,780
	25-Mar-10	12.1	ND	610	2,238
	15-Dec-09	13.8	ND	720	2,412
	2-Sep-09	10.9	ND	820	2,716
	4-Jun-09	19.0	ND	810	2,468
	5-Mar-09	16.8	ND	605	2,230
126-09	4-Aug-11	3.19	<2.17	1,100	3,180
	22-Apr-11	3.31	<2.17	1,120	2,730
	22-Sep-10	2.50	<10.0	1110	3,320
	30-Jun-10	Not Sampled			
	25-Mar-10				
	15-Dec-09				
	2-Sep-09				
	4-Jun-09				
5-Mar-09					
126-12	4-Aug-11	13.6	<2.17	449	2,580
	22-Apr-11	13.2	<2.17	461	2,530
	27-Jan-11	12.2	<2.17	453	2,280
	22-Sep-10	12.6	<10.0	446	2,430
	30-Jun-10	15	<2.0	500	2,610
	25-Mar-10	8.9	ND	550	2,260
	15-Dec-09	8.7	ND	540	2,296
	2-Sep-09	12.8	0.56	530	2,336
	4-Jun-09	4.08	0.84	530	2,322
	5-Mar-09	11	ND	475	2,320
126-13	4-Aug-11	21.4	<2.17	735	2,840
	22-Apr-11	21.7	<2.17	754	2,640
	26-Jan-11	22.8	<2.17	768	3,130
	22-Sep-10	23.1	<10.0	750	2,850
	30-Jun-10	26	<5.0	810	3,000
	25-Mar-10	10.3	ND	940	2,740
	15-Dec-09	14.3	ND	910	2,832
	2-Sep-09	12.8	ND	840	2,746
	4-Jun-09	16.3	ND	970	2,768
5-Mar-09	19.4	ND	845	2,800	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
<b>Mountain View Dairy</b>					
70-01	3-Aug-11	20.7	2.8	641	2,630
	22-Apr-11	22.7	22.4	646	2,760
	27-Jan-11	22.5	2.94	650	2,500
	22-Sep-10	19.3	12.3	617	2,610
	30-Jun-10	27	<1.0	600	2,400
	25-Mar-10	14.5	ND	670	2,096
	15-Dec-09	17.1	ND	640	2,218
	1-Sep-09	8.4	ND	630	2,244
	2-Jun-09	9.35	ND	640	2,112
4-Mar-09	20.8	ND	610	2,254	
70-02	4-Aug-11	36.8	5.04	798	3,160
	22-Apr-11	38.1	8.40	836	3,220
	27-Jan-11	44.2	6.02	863	3,390
	22-Sep-10	32.2	<10.0	829	3,070
	30-Jun-10	46	< 1.0	860	3,170
	25-Mar-10	19.6	ND	930	3,076
	15-Dec-09	18.3	ND	960	3,012
	9-Jan-09	21.4	ND	970	3,148
	2-Jun-09	17.8	ND	920	3,084
4-Mar-09	35.8	ND	940	3,104	
<b>Buena Vista Dairy I</b>					
86-01	26-Jan-11	95.4	16.0	2,300	6,240
	20-Sep-10	86.9	<10.0	2,330	6,500
	29-Jun-10	67	<1.0	1,800	5,010
	25-Mar-10	27.0	0.28	1,770	4,814
	15-Dec-09	29.8	ND	1,750	4,670
	1-Sep-09	26.1	ND	1,510	4,474
	2-Jun-09	46.5	4.76	1,590	4,464
	4-Mar-09	42	ND	1,659	4,850
86-02	26-Jan-11	23.4	2.24	641	3,110
	20-Sep-10	24.1	<10.0	613	2,980
	29-Jun-10	21	1.1	660	3,020
	25-Mar-10	16.2	0.7	740	2,740
	15-Dec-09	10.7	0.28	730	2,818
	1-Sep-09	7.2	ND	710	2,824
	2-Jun-09	2.95	ND	700	2,802
	4-Mar-09	16.4	ND	625	2,666
<b>Bright Star Dairy</b>					
340-01	25-Jul-11	28.3	4.20	747	2,830
	27-Jan-11	31.1	3.50	578	2,840
	21-Sep-10	24.8	<10.0	513	3,070
	29-Jun-10	29	<0.10	610	2,810
	24-Mar-10	18.8	ND	580	2,508
	15-Dec-09	13.1	ND	650	2,608
	1-Sep-09	12.20	ND	530	2,522
	2-Jun-09	8.67	ND	590	2,434
4-Mar-09	28.3	ND	530	2,516	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
340-02	22-Jul-11	84.8	7.98	777	2,970
	27-Jan-11	94.1	2.24	760	3,500
	21-Sep-10	92.2	<10.0	778	3,260
	29-Jun-10	87	<0.10	850	3,180
	24-Mar-10	95	ND	930	3,070
	15-Dec-09	82	ND	910	3,072
	1-Sep-09	94	ND	890	3,072
	2-Jun-09	43.2	ND	880	2,954
	4-Mar-09	41.5	ND	885	3,098
<b>Former D&amp;J Dairy (Dominguez 2)</b>					
42-02	02-Aug-11	20.5	2.38	424	2,360
	25-Apr-11	29.1	<2.17	365	2,140
	28-Jan-11	22.7	6.72	408	2,150
	1-Oct-10	21.0	<10.0	355	2,010
	27-Jun-10	27	<5.0	360	2,220
	6-Mar-10	31.3	<0.3	380	2,145
	16-Jan-10	25.7	0.3	350	2,090
	15-Sep-09	24.6	0.9	350	2,075
	3-Jun-09	30.6	0.6	320	2,045
	14-Mar-09	29.6	0.7	370	2,115
42-03	1-Aug-11	59.2	<2.17	1,030	3,720
	25-Apr-11	58.8	<2.17	1,080	3,620
	28-Jan-11	69.5	3.78	1,160	3,690
	1-Oct-10	63.0	<10.0	1,090	3,640
	27-Jun-10	49	<5.0	1,100	3,780
	6-Mar-10	39.6	<0.3	1,180	3,935
	16-Jan-10	43.3	<0.3	1,200	3,800
	15-Sep-09	52.3	0.3	1,130	3,765
	3-Jun-09	48.2	0.3	1,240	3,860
	14-Mar-09	32.2	<0.2	1,240	3,800
42-06	2-Aug-11	88.6	3.22	525	2,980
	25-Apr-11	72.2	<2.17	454	2,500
	28-Jan-11	69.8	4.20	421	2,780
	1-Oct-10	113	<10.0	497	2,660
	27-Jun-10	46	<5.0	400	2,550
	6-Mar-10	43.1	<0.3	480	2,510
	16-Jan-10	44.2	0.3	1,150	2,600
	14-Sep-09	54.8	0.4	450	2,600
	3-Jun-09	0.02	<0.2	1,240	3,780
	14-Mar-09	49.7	0.2	480	2,540
42-07	2-Aug-11	Dry			
	25-Apr-11	68.5	<2.17	1,230	4,080
	28-Jan-11	88.3	4.48	1,130	4,180
	1-Oct-10	92.0	<40.0	1,390	4,260
	27-Jun-10	63	<5.0	1,400	4,330
	6-Mar-10	63.1	<0.3	1,490	4,345
	16-Jan-10	59.6	<0.3	1,480	4,275
	15-Sep-09	66.6	<0.3	1,290	4,195
	3-Jun-09	57.4	<0.2	1,550	4,225
	14-Mar-09	43.7	<0.2	1,500	4,110

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-08	2-Aug-11	41.3	2.38	253	2,030
	25-Apr-11	51.4	2.66	201	1,970
	28-Jan-11	46.2	5.46	219	2,020
	1-Oct-10	49.0	<10.0	288	2,160
	27-Jun-10	75	<5.0	300	2,220
	6-Mar-10	76.8	<0.3	365	2,290
	16-Jan-10	82.8	<0.3	350	2,315
	15-Sep-09	87.1	0.7	410	2,340
	3-Jun-09	65.8	0.8	380	2,175
	14-Mar-09	43.2	0.4	400	2,220
42-09	1-Aug-11	55.0	<2.17	579	2,750
	25-Apr-11	65.8	<2.17	664	2,820
	28-Jan-11	44.9	<2.17	537	2,940
	28-Sep-10	38.0	<10.0	591	2,760
	27-Jun-10	68	<5.0	610	3,010
	6-Mar-10	NS	NS	NS	NS
	16-Jan-10	52.8	<0.3	690	2,970
	15-Sep-09	68.8	0.7	650	3,000
	3-Jun-09	66.5	0.7	690	3,000
	14-Mar-09	59.5	0.4	700	3,050
42-10	2-Aug-11	<0.500	<2.17	469	1,540
	25-Apr-11	<0.500	<2.17	453	1,500
	28-Jan-11	2.15	<2.17	345	1,280
	1-Oct-10	0.220	<10.0	360	1,450
	27-Jun-10	<0.50	<1.0	420	1,490
	6-Mar-10	0.23	<0.3	440	1,500
	16-Jan-10	<0.03	<0.3	430	1,435
	15-Sep-09	0.16	<0.3	400	1,425
	3-Jun-09	0.21	<0.2	450	1,535
	14-Mar-09	0.02	<0.2	480	1,480
42-11	2-Aug-11	3.07	<2.17	308	1,160
	25-Apr-11	3.45	<2.17	304	795
	28-Jan-11	0.470	2.38	285	1,300
	1-Oct-10	0.620	<10.0	300	1,250
	27-Jun-10	3.9	<1.0	290	1,080
	6-Mar-10	0.51	<0.3	370	1,300
	16-Jan-10	0.03	<0.3	370	1,325
	15-Sep-09	0.41	<0.3	320	1,245
	3-Jun-09	3.00	0.7	300	1,080
	14-Mar-09	0.90	<0.2	310	1,225
42-12	2-Aug-11	<0.100	<2.17	331	1,340
	25-Apr-11	<0.500	<2.17	339	1,280
	28-Jan-11	0.580	<2.17	276	970
	1-Oct-10	4.50	<10.0	312	1,280
	27-Jun-10	0.72	<1.0	320	1,270
	6-Mar-10	0.13	<0.3	350	1,230
	16-Jan-10	0.42	<0.3	340	1,250
	15-Sep-09	0.65	<0.3	310	1,215
	3-Jun-09	0.82	<0.2	330	1,280
	14-Mar-09	0.70	<0.2	340	1,240



**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-13	2-Aug-11	106	<2.17	1,900	3,280
	25-Apr-11	55.9	<2.17	1,000	3,600
	28-Jan-11	52.6	<2.17	868	3,720
	29-Sep-10	44.5	<10.0	833	3,360
	27-Jun-10	48	<5.0	1,000	3,810
	6-Mar-10	NS	NS	NS	NS
	16-Jan-10	46.3	<0.3	1,130	3,810
	15-Sep-09	54.8	0.5	1,100	3,940
	3-Jun-09	51.6	<0.2	1,110	3,775
	14-Mar-09	51.0	0.6	1,040	3,735
<b>Dominguez</b>					
624-01	3-Aug-11	10.7	<2.17	1,580	3,970
	27-Apr-11	<0.500	30.8	1,330	4,040
	25-Jan-11	14.0	<2.17	1,280	3,760
	21-Sep-10	8.20	<10.0	1,260	3,780
	27-Jun-10	11	<2.0	1,600	4,520
	6-Mar-10	17.2	<0.3	910	2,610
	16-Jan-10	5.5	0.4	840	2,540
	15-Sep-09	6.5	0.6	760	2,455
	3-Jun-09	16.1	0.7	810	2,790
	14-Mar-09	21.9	0.3	1,190	3,305
624-02	3-Aug-11	12.2	<2.17	1,290	3,600
	27-Apr-11	11.6	7.70	1,340	4,170
	25-Jan-11	19.1	<2.17	1,290	3,700
	20-Sep-10	19.6	<10.0	1,300	4,130
	27-Jun-10	14	<2.0	1,400	4,230
	6-Mar-10	23.7	<0.3	1,400	3,880
	16-Jan-10	22.6	0.4	1,300	3,630
	15-Sep-09	19.9	0.8	1,260	3,625
	3-Jun-09	29.4	0.4	1,340	3,905
	14-Mar-09	26.5	0.4	1,240	3,655
624-04	3-Aug-11	1.84	<2.17	478	2,760
	27-Apr-11	2.60	5.74	566	2,830
	26-Jan-11	3.23	2.52	747	3,480
	21-Sep-10	6.0	<10.0	758	3,750
	27-Jun-10	3.7	1.4	810	3,950
	6-Mar-10	4.3	0.4	890	4,050
	16-Jan-10	4.2	0.7	800	3,845
	15-Sep-09	9.3	0.8	840	3,750
	3-Jun-09	16.0	0.6	520	2,900
	14-Mar-09	18.1	0.6	520	2,820
624-05	3-Aug-11	3.34	<2.17	1,080	1,940
	27-Apr-11	3.34	4.76	424	1,840
	26-Jan-11	3.62	<2.17	392	1,740
	21-Sep-10	11.9	<10.0	449	2,300
	27-Jun-10	27	< 5.0	480	2,450
	6-Mar-10	30.5	0.4	520	2,595
	16-Jan-10	21.4	0.9	520	2,605
	15-Sep-09	34.8	1.0	530	2,620
	3-Jun-09	33.8	1.3	500	2,650
	14-Mar-09	23.9	1.2	490	2,565

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
624-06	3-Aug-11	29.8	<2.17	1,080	3,240
	27-Apr-11	29.0	3.50	1,050	3,180
	26-Jan-11	29.1	2.94	1,080	2,760
	21-Sep-10	26.7	<10.0	1,060	3,270
	27-Jun-10	30	<5.0	1,100	3,570
	6-Mar-10	28.3	<0.3	1,250	3,550
	16-Jan-10	52.2	0.6	2,100	3,545
	15-Sep-09	27.8	0.7	1,150	3,425
	3-Jun-09	38.3	0.8	70	4,300
	14-Mar-09	36.5	0.3	1,300	3,800
624-07	3-Aug-11	8.01	<2.17	473	1,600
	27-Apr-11	19.4	3.50	539	2,290
	26-Jan-11	14.7	5.60	516	1,900
	21-Sep-10	20.5	<10.0	531	2,200
	27-Jun-10	61	<5.0	880	3,550
	6-Mar-10	43.4	<0.3	1,080	3,825
	16-Jan-10	49.5	0.5	840	3,275
	15-Sep-09	50.1	0.4	960	3,280
	3-Jun-09	75.2	0.8	1,525	4,980
	14-Mar-09	54.3	0.3	1,160	3,580
624-08	3-Aug-11	Dry			
	27-Apr-11	2.45	3.50	200	1,400
	26-Jan-11	1.7	8.12	222	2,940
	21-Sep-10	<2.50	<10.0	197	1,200
	27-Jun-10	2.0	<1.0	220	1,310
	6-Mar-10	0.65	<0.3	280	1,330
	16-Jan-10	0.89	<0.3	240	1,215
	15-Sep-09	2.3	0.3	200	1,205
	3-Jun-09	1.7	0.7	210	1,280
	14-Mar-09	1.8	<0.2	205	1,165
<b>Gonzalez</b>					
177-01	2-Aug-11	26.0	2.24	1,200	4,000
	4-May-11	26.6	<2.17	1,160	4,020
	25-Jan-11	23.3	4.06	1,160	3,540
	20-Sep-10	17.6	12.7	1,120	3,480
	29-Jun-10	34	<1.0	1,200	3,660
	28-Apr-10	31	<5.0	1,200	3,680
	20-Jan-10	32	<5.0	1,200	3,640
	21-Oct-09	35	<5.0	1,100	3,700
	7-Jul-09	35	<5.0	1,400	3,700
	6-May-09	34	<5.0	1,300	3,700
	22-Jan-09	33	<5.0	1,300	3,700

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-02	3-Aug-11	34.4	2.80	997	3,340
	4-May-11	38.1	2.52	1,050	3,580
	25-Jan-11	31.6	3.36	1,050	3,640
	20-Sep-10	78.0	<10.0	964	3,630
	29-Jun-10	58	<1.0	1,000	3,830
	28-Apr-10	60	<5.0	1,100	3,860
	20-Jan-10	59	<5.0	1,200	4,020
	21-Oct-09	50	<5.0	1,200	4,000
	7-Jul-09	56	<5.0	1,300	4,000
	6-May-09	52	<5.0	1,200	4,000
	22-Jan-09	72	<5.0	1,300	4,000
177-03	2-Aug-11	<0.500	<2.17	427	1,490
	5-May-11	<0.500	<2.17	398	1,360
	25-Jan-11	4.60	<2.05	386	1,500
	21-Sep-10	3.21	<10.0	369	1,520
	29-Jun-10	1.6	<1.0	430	1,610
	28-Apr-10	1.5	<1.0	450	1,600
	20-Jan-10	1.4	<1.0	460	1,600
	21-Oct-09	1.0	<1.0	430	1,600
	7-Jul-09	0.80	<1.0	470	1,500
	6-May-09	0.97	3.5	450	1,600
	22-Jan-09	1.0	<1.0	370	1,600
177-04	2-Aug-11	21.6	<2.17	1,080	3,670
	4-May-11	21.2	3.64	1,100	3,740
	25-Jan-11	17.5	2.38	1,150	3,760
	20-Sep-10	4.83	<10.0	1,180	4,030
	29-Jun-10	26	<1.0	1,200	4,010
	28-Apr-10	26	<5.0	1,300	4,090
	20-Jan-10	27	<5.0	1,400	4,090
	21-Oct-09	29	<5.0	1,400	4,100
	7-Jul-09	32	<5.0	1,400	3,990
	6-May-09	32	<5.0	1,300	3,800
	22-Jan-09	26	<5.0	1,200	1,700
177-05	2-Aug-11	36.3	<2.17	1,120	3,420
	4-May-11	40.6	5.60	1,090	3,500
	25-Jan-11	39.2	2.10	1,060	3,240
	20-Sep-10	7.39	<10.0	1,050	3,500
	29-Jun-10	39	<1.0	1,100	3,470
	28-Apr-10	40	<5.0	1,200	3,460
	20-Jan-10	43	<5.0	1,100	3,330
	21-Oct-09	50	<5.0	1,100	3,300
	7-Jul-09	38	<5.0	1,200	3,270
	6-May-09	40	<5.0	1,100	3,100
	22-Jan-09	40	<5.0	1,100	3,000

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-06	2-Aug-11	16.1	<2.17	910	3,020
	4-May-11	17.2	4.90	955	2,930
	25-Jan-11	19.2	<2.05	923	2,740
	20-Sep-10	<2.50	<10.0	890	2,880
	29-Jun-10	23	<1.0	940	2,960
	28-Apr-10	21	<5.0	980	2,960
	20-Jan-10	26	<5.0	1,000	2,910
	21-Oct-09	25	<5.0	980	2,900
	7-Jul-09	25	<5.0	1,000	2,850
	6-May-09	25	<5.0	1,000	2,800
22-Jan-09	23	<5.0	960	2,800	
177-07	15-Mar-03	44.4	1.5	1,205	4,007
177-07R	3-Aug-11	25.2	2.80	1,050	3,250
	7-Apr-11	21.4	2.52	1,070	8,660
<b>Central Area</b>					
<b>Buena Vista Dairy II</b>					
74-01	1-Aug-11	73.2	<2.17	770	3,040
	26-Apr-11	67.8	<2.17	730	3,300
	25-Jan-11	41.7	13.0	738	2,960
	17-Sep-10	36.7	<10.0	695	2,760
	29-Jun-10	74	<1.0	850	3,350
	24-Mar-10	70	ND	840	3,070
	14-Dec-09	84	0.14	750	2,480
	1-Sep-09	92	ND	730	2,914
	2-Jun-09	33.2	ND	650	2,632
	3-Mar-09	43.8	ND	735	2,666
74-02	29-Jul-11	52.8	2.24	630	2,710
	26-Apr-11	93.2	<2.17	831	3,610
	25-Jan-11	65.7	2.80	824	3,670
	17-Sep-10	30.6	<10.0	665	2,400
	29-Jun-10	45	<1.0	730	2,780
	24-Mar-10	20.6	ND	810	2,612
	14-Dec-09	14.6	0.14	770	2,452
	1-Sep-09	17.3	0.7	760	2,474
	2-Jun-09	17.6	0.84	820	4,866
	3-Mar-09	45.1	ND	1,265	4,556
74-03	1-Aug-11	15.0	<2.17	1,450	4,870
	26-Apr-11	4.17	<2.17	1,480	4,690
	25-Jan-11	2.02	<2.17	1,460	4,960
	20-Sep-10	21.3	<10.0	1,490	4,840
	29-Jun-10	1.5	<1.0	1,400	4,630
	24-Mar-10	6.1	ND	1,530	4,400
	14-Dec-09	14.1	ND	1,550	4,560
	1-Sep-09	18.9	ND	1,630	4,734
	2-Jun-09	2.9	ND	1,590	1,782
	3-Mar-09	2.65	ND	1,510	4,664

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
74-04	29-Jul-11	15.3	<2.17	438	1,580
	26-Apr-11	12.8	<2.17	451	1,820
	25-Jan-11	6.50	<2.17	434	1,810
	20-Sep-10	10.6	<10.0	441	1,640
	29-Jun-10	15	<1.0	500	1,840
	24-Mar-10	11.4	0.28	570	1,792
	14-Dec-09	11.5	ND	560	1,738
	1-Sep-09	19.3	ND	550	1,792
	2-Jun-09	7.2	ND	570	2,024
	3-Mar-09	20.3	ND	530	1,884
74-05	29-Jul-11	23.3	<2.17	449	2,000
	26-Apr-11	21.5	<2.17	446	1,900
	25-Jan-11	16.5	<2.17	446	1,940
	17-Sep-10	17.6	<10.0	439	1,880
	29-Jun-10	32	<1.0	520	2,070
	24-Mar-10	23.2	ND	620	1,960
	14-Dec-09	15.9	ND	600	1,924
	1-Sep-09	25.2	ND	540	1,964
	2-Jun-09	10.8	ND	560	2,068
	3-Mar-09	33.2	ND	535	2,038
<b>River Valley Dairy</b>					
167-01	25-Jul-11	Not Sampled			
	28-Apr-11	<0.500	3.92	720	2,960
	20-Jan-11	Not Sampled			
	27-Sep-10	1.55	9.94	731	2,540
	28-Jun-10	Not Sampled			
	5-Mar-10				
	15-Jan-10				
	14-Sep-09				
	2-Jun-09				
	15-Mar-09				
167-01A	25-Jul-11	2.13	3.92	943	3,330
	28-Apr-11	4.03	<2.17	1,030	3,710
	20-Jan-11	1.26	2.1	968	5,100
	22-Sep-10	1.40	3.36	1,010	3,470
	28-Jun-10	6.07	1.1	1,050	3,710
	5-Mar-10	9.3	0.8	1,040	3,605
	15-Jan-10	5.3	0.5	1,090	3,590
	14-Sep-09	13.4	0.6	1,040	3,530
	2-Jun-09	13.7	0.7	980	3,505
	15-Mar-09	22.2	0.2	740	3,130
167-02	25-Jul-11	Dry			
	28-Apr-11	<0.500	2.94	500	1,910
	20-Jan-11	0.716	< 2.05	546	1,840
	22-Sep-10	<0.846	<10.0	610	2,100
	28-Jun-10	Not Sampled			
	5-Mar-10				
	15-Jan-10				
	14-Sep-09				
	2-Jun-09				
	28-Apr-08				

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
167-03	25-Jul-11	18.5	6.16	543	2,250
	28-Apr-11	17.1	<2.17	508	2,210
	20-Jan-11	13.2	2.24	467	1,880
	22-Sep-10	9.19	<10.0	472	2,120
	28-Jun-10	20.4	<5.0	567	2,310
	5-Mar-10	18.4	<0.3	610	2,265
	15-Jan-10	13.7	0.6	620	2,015
	14-Sep-09	23.1	0.4	590	2,240
	2-Jun-09	25.0	0.5	680	2,515
	15-Mar-09	30.9	0.2	760	2,615
167-04	26-Jul-11	19.3	4.62	1,270	4,560
	28-Apr-11	7.95	73.1	1,610	4,960
	20-Jan-11	Not Sampled			
	28-Jun-10				
	5-Mar-10				
	15-Jan-10				
	14-Sep-09	6.7	0.4	1,630	5,240
	2-Jun-09	8.5	0.4	1,525	5,045
15-Mar-09	16.4	0.2	1,570	5,210	
167-05	26-Jul-11	4.41	3.22	792	3,070
	28-Apr-11	12.9	2.80	976	3,630
	20-Jan-11	3.53	2.52	748	2,980
	23-Sep-10	2.70	<10.0	758	2,820
	28-Jun-10	4.07	<1.0	789	2,930
	5-Mar-10	2.9	<0.3	960	2,945
	15-Jan-10	1.8	<0.3	380	715
	14-Sep-09	1.9	0.4	890	2,970
	2-Jun-09	1.8	0.9	850	3,005
	15-Mar-09	4.6	0.2	910	3,230
167-06	25-Jul-11	35.0	5.32	702	2,640
	28-Apr-11	35.4	<2.17	676	2,790
	20-Jan-11	29.6	2.38	634	2,560
	22-Sep-10	19.8	<10.0	655	2,630
	28-Jun-10	34.8	2.35	687	2,700
	5-Mar-10	30.9	<0.3	730	2,730
	15-Jan-10	26.2	0.4	750	2,755
	14-Sep-09	40.4	<0.3	700	2,680
	2-Jun-09	31.5	0.4	790	2,715
	15-Mar-09	36.2	0.7	730	2,715
167-07	25-Jul-11	<1.00	3.50	446	4,400
	28-Apr-11	<0.500	<2.17	292	1,750
	20-Jan-11	0.448	2.10	239	1,280
	22-Sep-10	0.0400	2.10	268	1,590
	28-Jun-10	<0.5	<2.0	287	1,600
	5-Mar-10	0.16	<0.3	370	1,650
	15-Jan-10	<0.03	<0.3	250	2,065
	14-Sep-09	0.19	<0.3	390	1,700
	2-Jun-09	0.11	0.4	740	2,575
	15-Mar-09	0.11	0.2	1,090	3,165

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
167-08	26-Jul-11	3.77	4.20	779	3,030
	28-Apr-11	3.74	<2.17	793	2,740
	20-Jan-11	<0.239	2.10	764	2,640
	23-Sep-10	0.250	<10.0	756	2,720
	28-Jun-10	5.51	<0.5	804	2,990
	5-Mar-10	5.5	<0.3	830	2,750
	15-Jan-10	0.84	<0.3	720	2,530
	14-Sep-09	2.9	0.3	640	2,380
	2-Jun-09	2.1	0.6	750	2,785
	15-Mar-09	3.2	0.2	740	2,710
167-09	26-Jul-11	<1.00	3.78	736	2,300
	28-Apr-11	<0.500	2.38	467	2,140
	20-Jan-11	0.0147	<2.05	429	2,160
	24-Sep-10	0.0300	<10.0	432	1,500
	28-Jun-10	<0.5	<1.0	491	2,160
	5-Mar-10	0.05	<0.3	580	2,150
	15-Jan-10	<0.03	<0.3	500	2,250
	14-Sep-09	<0.03	<0.3	530	2,055
	2-Jun-09	0.04	0.7	540	2,205
	15-Mar-09	0.07	0.2	630	2,400
<b>Big Sky Dairy</b>					
833-01	21-Jul-11	Dry			
	29-Apr-11	Not Sampled - insufficient water to sample			
	24-Jan-11	33.6	4.20	997	3,100
	23-Sep-10	29.1	<10.0	881	3,300
	28-Jun-10	1.7	1.8	180	790
	23-Mar-10	28.3	0.7	1,025	2,640
	14-Dec-09	21.8	ND	975	2,800
	31-Aug-09	15.3	ND	999	2,894
	1-Jun-09	8.6	ND	1,030	2,382
	2-Mar-09	37.1	ND	1,070	3,750
833-02	21-Jul-11	91.6	3.08	880	3,510
	29-Apr-11	81.6	6.02	840	3,500
	24-Jan-11	69.3	2.66	789	3,090
	23-Sep-10	52.9	<10.0	833	3,650
	28-Jun-10	29	<5.0	560	2,200
	23-Mar-10	15.9	ND	660	2,066
	14-Dec-09	11.5	0.28	650	2,018
	31-Aug-09	12.4	ND	660	2,170
	1-Jun-09	<0.5	ND	650	3,358
	2-Mar-09	3.54	13.44	585	1,978
833-03	21-Jul-11	Dry			
	4-May-11	24.8	4.20	1,660	4,120
	24-Jan-11	30.4	2.66	1,650	4,090
	23-Sep-10	18.1	<10.0	1,410	3,880
	28-Jun-10	5.0	5.5	650	1,870
	23-Mar-10	14.0	ND	1,750	4,044
	14-Dec-09	11.8	0.28	1,839	4,280
	31-Aug-09	8.9	ND	1,760	4,216
	1-Jun-09	90.4	ND	1,620	3,060
	2-Mar-09	21.2	ND	1,580	3,970

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-04	21-Jul-11	45.3	2.52	883	3,410
	29-Apr-11	46.2	<2.17	902	3,280
	24-Jan-11	40.9	<2.05	755	3,040
	24-Sep-10	<50.0	<10.0	915	3,480
	28-Jun-10	18	<2.0	500	1,830
	23-Mar-10	11.3	ND	560	1,648
	14-Dec-09	11.2	0.42	570	1,750
	31-Aug-09	16.1	ND	630	1,986
	1-Jun-09	3.03	ND	580	1,968
	2-Mar-09	14.6	ND	600	1,884
833-05	21-Jul-11	12.0	2.66	1,210	3,180
	29-Apr-11	17.6	<2.17	1,330	3,300
	24-Jan-11	23.2	2.66	1,340	3,430
	24-Sep-10	28.9	<10.0	1,330	3,800
	28-Jun-10	12	<2.0	1,200	3,090
	23-Mar-10	12.2	ND	1,240	2,942
	14-Dec-10	6.7	0.56	1,280	3,096
	31-Aug-09	9.0	ND	1,220	3,152
	1-Jun-09	3.43	ND	1,230	3,026
2-Mar-09	11	ND	1,255	3,134	
833-06	21-Jul-11	70.1	7.70	682	2,650
	4-May-11	36.4	7.70	717	2,440
	20-Jan-11	61.0	2.80	738	2,360
	23-Sep-10	64.3	<10.0	761	2,680
	28-Jun-10	23	<5.0	630	2,310
	23-Mar-10	24.8	2.38	700	2,184
	14-Dec-09	22.7	1.68	820	2,344
	31-Aug-09	25.1	1.96	790	2,708
	1-Jun-09	106	ND	680	2,280
	2-Mar-09	66.4	ND	610	2,160
833-07	21-Jul-11	105	<2.17	115	4,090
	29-Apr-11	100	<2.17	1,220	4,380
	24-Jan-11	100	2.10	1,140	4,350
	24-Sep-10	129	<10.0	933	3,800
	28-Jun-10	69	<5.0	1,300	4,160
	23-Mar-10	106	ND	1,320	3,884
	14-Dec-09	101	0.42	1,260	3,988
	31-Aug-09	74	8.68	1,180	3,978
	1-Jun-09	12.4	8.68	1,180	3,964
	2-Mar-09	33.2	ND	1,380	3,866
833-08	21-Jul-11	68.8	<2.17	963	3,240
	29-Apr-11	75.9	<2.17	950	3,330
	24-Jan-11	93.4	2.10	930	3,190
	23-Sep-10	91.8	<10.0	985	3,600
	28-Jun-10	35	<5.0	630	2,290
	23-Mar-10	33	ND	700	2,108
	14-Dec-09	31	ND	950	2,710
	31-Aug-09	63	ND	1,020	3,576
	1-Jun-09	41.4	ND	1,000	3,492
	2-Mar-09	121	ND	700	2,038



**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-09	21-Jul-11	135	<2.17	1,070	4,550
	4-May-11	147	<2.17	1,420	5,540
	25-Jan-11	134	2.80	1,420	4,850
	24-Sep-10	58.2	<10.0	1,050	4,110
	28-Jun-10	50	<5.0	1,200	4,380
	23-Mar-10	16.3	0.56	1,100	3,624
	14-Dec-09	2.7	0.28	960	3,184
	31-Aug-09	6.6	ND	870	3,178
	1-Jun-09	18.10	1.12	880	3,164
	2-Mar-09	7.07	ND	825	3,202
833-10	21-Jul-11	4.63	3.78	597	2,480
	4-May-11	5.19	<2.17	714	2,670
	25-Jan-11	8.46	2.10	649	2,730
	24-Sep-10	<10.0	<10.0	654	2,250
	28-Jun-10	3.6	<1.0	750	2,790
	23-Mar-10	6.8	ND	1,220	3,868
	14-Dec-09	3.7	0.14	790	2,576
	31-Aug-09	4.7	ND	750	2,548
	1-Jun-09	7.1	ND	650	2,458
2-Mar-09	2.43	ND	855	2,954	
<b>Sunset/Desert Land Dairy</b>					
257-01	22-Jul-11	44.8	<2.17	673	3,270
	26-Apr-11	103	3.78	870	4,440
	19-Jan-11	59.3	3.08	743	3,420
	24-Sep-10	58.0	<10.0	685	3,120
	28-Jun-10	100	<1.0	820	3,800
	24-Mar-10	187	ND	1,100	4,342
	14-Dec-09	71	0.14	910	3,860
	31-Aug-09	49	ND	880	3,706
	2-Jun-09	64	ND	910	3,822
	3-Mar-09	89	ND	1,135	4,652
257-02	22-Jul-11	28.7	<2.17	501	2,160
	26-Apr-11	24.9	2.80	433	2,000
	19-Jan-11	13.3	2.52	455	1,500
	24-Sep-10	21.0	<10.0	445	1,590
	29-Jun-10	24	<1.0	560	2,180
	24-Mar-10	22.3	ND	570	1,840
	14-Dec-09	19.3	0.14	480	1,916
	31-Aug-09	14.2	ND	410	1,518
	2-Jun-09	1.86	ND	500	1,690
	3-Mar-09	30.4	ND	495	1,632
257-03	22-Jul-11	12.9	2.80	576	2,100
	26-Apr-11	12.5	5.88	525	2,400
	19-Jan-11	2.67	2.24	377	1,600
	24-Sep-10	8.00	<10.0	400	1,670
	29-Jun-10	17	1.1	660	2,570
	24-Mar-10	10.1	1.12	640	2,342
	14-Dec-09	5.9	0.56	760	2,638
	31-Aug-09	10.7	0.84	610	2,260
	2-Jun-09	5.99	ND	570	2,284
3-Mar-09	334*	ND	690	2,538	

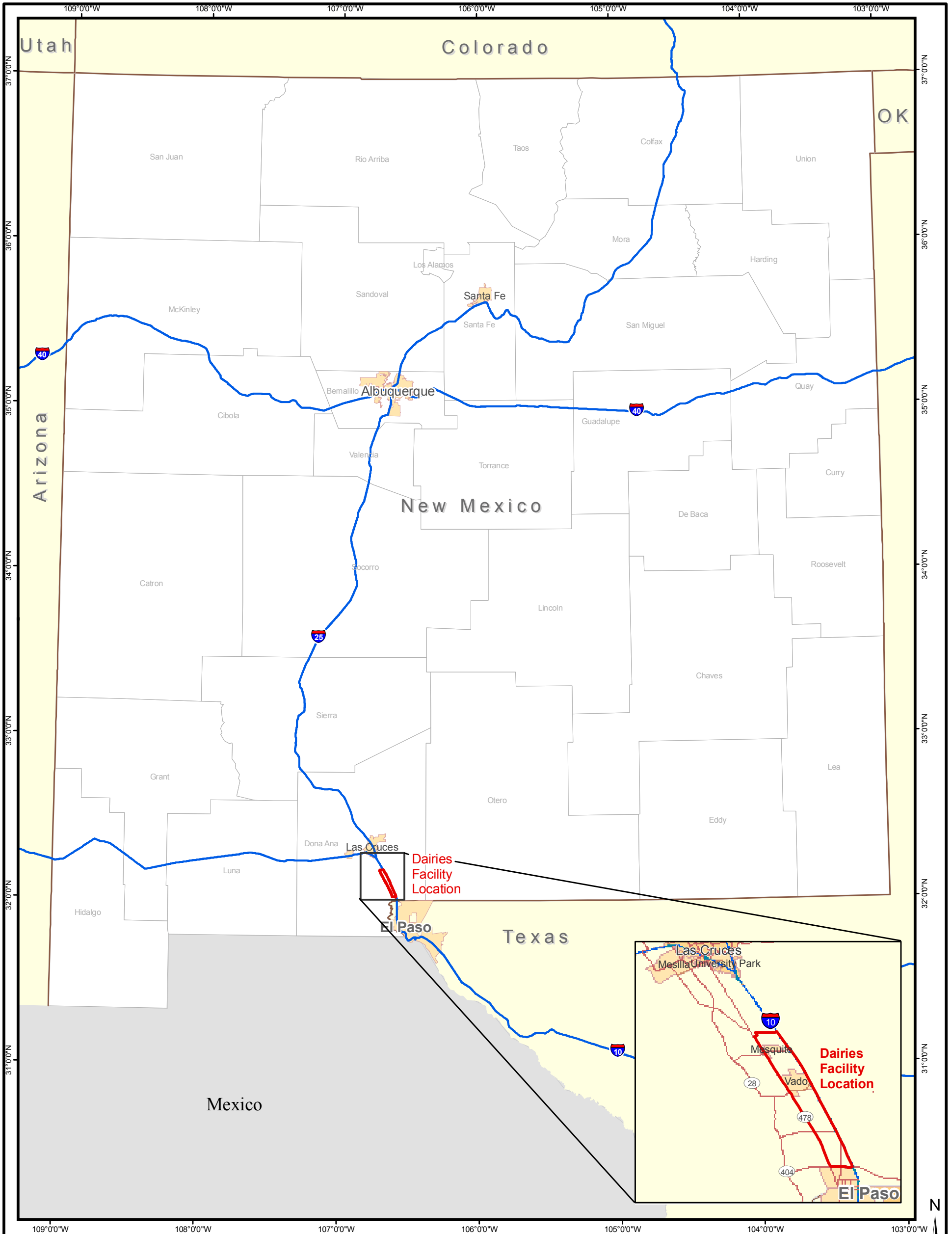
**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
257/260-01	22-Jul-11	4.66	3.64	440	1,860
	26-Apr-11	<0.500	4.34	624	2,580
	19-Jan-11	1.21	4.20	480	1,860
	24-Sep-10	11.0	<10.0	576	2,480
	30-Jun-10	5.4	<5.0	530	1,980
	23-Mar-10	5.0	ND	340	982
	14-Dec-09	45	26.32	220	520
	31-Aug-09	0.3	8.7	570	1,704
	2-Jun-09	1.65	7.0	660	1,936
3-Mar-09	3.98	1.12	555	1,908	
<b>McAnally Enterprises</b>					
MW-4	13-Mar-09	3.5	<0.5	2,110	5,686
<b>Southern Area</b>					
<b>Del Oro Dairy</b>					
692-01	29-Jul-11	176	<2.17	1,210	4,840
	22-Apr-11	140	3.22	998	3,880
	19-Jan-11	213	2.10	1,070	4,320
	1-Oct-10	222	<10.0	1,060	4,640
	30-Jun-10	230	<5.0	1,100	4,080
	30-Mar-10	117.5	3	1,080	3,991
	8-Dec-09	107	1	1,060	4,897
	12-Aug-09	127	3	1,120	4,955
	4-May-09	120	3	1,160	4,295
692-02	29-Jul-11	24.1	<2.17	504	2,280
	27-Apr-11	92.3	<10.0	921	3,080
	26-Jan-11	47.2	3.64	706	2,490
	1-Oct-10	Not Sampled			
	30-Jun-10	140	<5.0	1,100	3,520
	30-Mar-10	107.5	1	1,320	3,861
	8-Dec-09	96	1	1,200	4,073
	12-Aug-09	66	3	1,140	4,317
	4-May-09	52	1	1,100	3,337
692-03	30-Mar-10	Plugged and Abandoned			
	4-May-09				
692-04	29-Jul-11	25.2	<2.17	503	1,960
	22-Apr-11	98.5	<2.17	893	3,240
	19-Jan-11	148	3.22	1040	3,740
	28-Sep-10	67.0	<10.0	802	3,060
	30-Jun-10	50	<5.0	590	2,050
	30-Mar-10	28	1	600	2,012
	8-Dec-09	31	1	590	2,069
	12-Aug-09	26	1	680	2,158
	4-May-09	26	1	580	2,081
692-05	1-Aug-11	<1.00	3.50	420	1,710
	26-Apr-11	<2.50	<10.0	401	1,710
	19-Jan-11	4.12	2.10	443	1,280
	1-Oct-10	3.10	<10.0	420	1,430
	30-Jun-10	2.1	<1.0	500	1,490
	30-Mar-10	1.5	1	480	1,501
	8-Dec-09	1.4	1	540	1,538
	12-Aug-09	0.8	1	500	1,602
4-May-09	1.0	1	500	1,477	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
692-06	1-Aug-11	6.07	2.80	409	1,500
	26-Apr-11	4.50	<10.0	422	1,590
	19-Jan-11	4.95	2.10	431	1,360
	1-Oct-10	11.0	<10.0	373	1,490
	30-Jun-10	7.4	<1.0	440	1,470
	30-Mar-10	3.9	1	460	1,532
	8-Dec-09	2.3	1	540	1,609
	12-Aug-09	2.8	1	440	1,555
	4-May-09	2.9	1	500	1,552
692-07	1-Aug-11	<1.00	2.66	567	2,000
	26-Apr-11	39.3	<10.0	694	2,520
	19-Jan-20	17.2	2.38	589	1,100
	1-Oct-10	27.0	< 10.0	617	2,300
	30-Jun-10	Not Sampled			
	30-Mar-10	42	1	820	2,967
	8-Dec-09	28	1	860	3,131
	12-Aug-09	36	1	780	3,041
	4-May-09	50	1	960	3,480
692-08	1-Aug-11	<1.00	<2.17	386	2,240
	26-Apr-11	3.49	<10.0	435	1,440
	19-Jan-11	3.26	<2.05	431	1,120
	1-Oct-10	5.70	<10.0	386	1,390
	30-Jun-10	3.5	<1.0	460	1,430
	30-Mar-10	3.0	1	520	1,518
	8-Dec-09	2.5	1	500	1,459
	12-Aug-09	1.8	1	520	1,476
	4-May-09	2.0	1	480	1,476
692-09	1-Aug-11	12.6	<2.17	407	1,300
	26-Apr-11	10.8	<10.0	420	1,140
	18-Jan-11	12.0	<2.05	460	1,160
	1-Oct-10	15.0	<10.0	387	1,480
	30-Jun-10	22	<5.0	480	1,500
	30-Mar-10	11	1	520	1,606
	8-Dec-09	10	1	460	1,536
	12-Aug-09	6	1	460	1,675
	4-May-09	6	1	480	1,545
<b>NMWQCC Standard</b>		<b>10</b>	<b>NA</b>	<b>250</b>	<b>1,000</b>
<p>NOTES:</p> <p>Data suspect</p> <p>ND = Non-detect</p> <p>NMWQCC = New Mexico Water Quality Control Commission</p> <p>TDS = Total dissolved solids</p> <p>TKN = Total Kjeldahl nitrogen</p> <p>Highlight is at or above NMWQCC Standard</p>					

## **FIGURES**

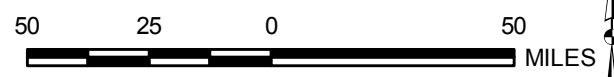


**LEGEND:**


 Facility Boundary

**REFERENCES**

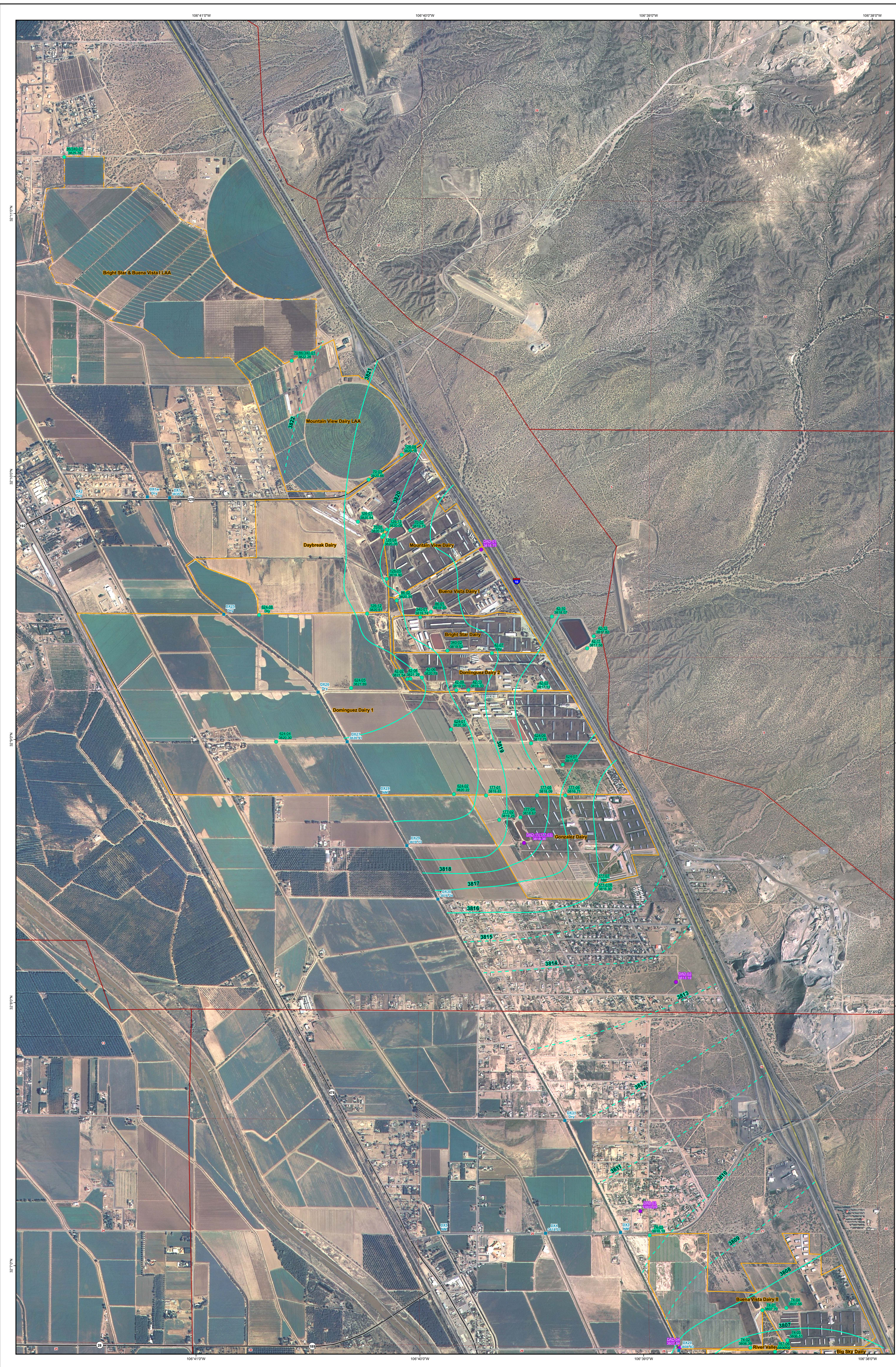
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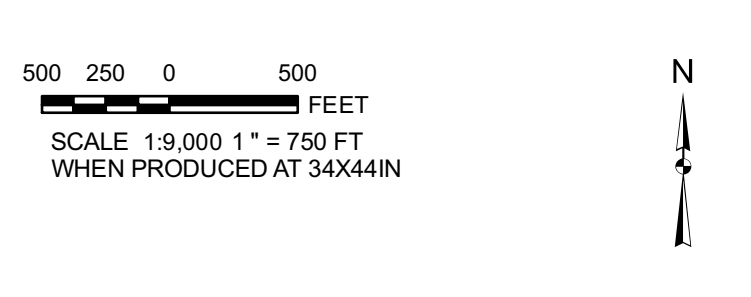
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TITLE		SITE LOCATION MAP	
	PROJECT No.	11x17_siteloc.mxd	
	DESIGN		SCALE AS SHOWN
	GIS		REV 0
	CHECK		
REVIEW		<p><b>FIGURE 1</b></p>	





- LEGEND**
- DX Location
  - Discharge Plan Well With Water Elevations (Feet MSL)
  - Abatement Plan Well With Water Elevations (Feet MSL)
  - Potentiometric Contour
  - - - Potentiometric Contour - Assumed
  - Interstate Highway
  - State Highway
  - Other Road
  - Land Owned by Dairies
  - Land Application on Non-Dairy Property
  - Public Land Survey System
- Note:  
NM = Not Measured

**REFERENCES**  
 Roads: Doña Ana County, 2001  
 Aerial Photography: USGS, 2005  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)



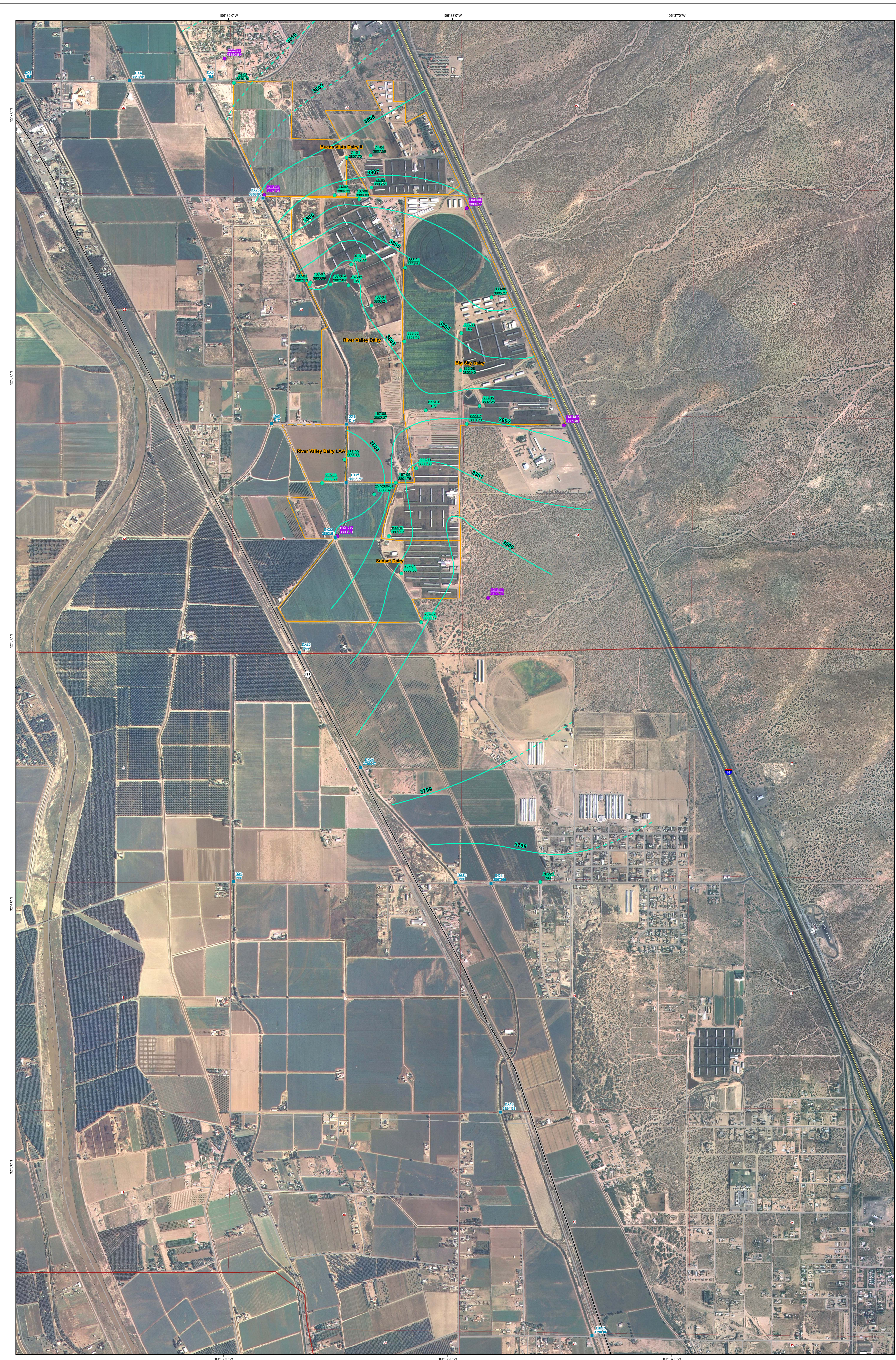
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 MESQUITE, NEW MEXICO

TITLE: POTENTIOMETRIC SURFACE MAP,  
 JULY AND AUGUST 2011, NORTHERN PORTION

DATE:	DATE PLOTTED:	SCALE:

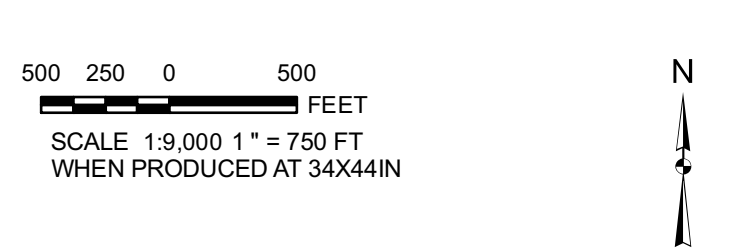
FIGURE 2





- LEGEND**
- DX Location
  - Discharge Plan Well With Water Elevations (Feet MSL)
  - Abatement Plan Well With Water Elevations (Feet MSL)
  - Potentiometric Contour
  - - - Potentiometric Contour - Assumed
  - Interstate Highway
  - State Highway
  - Other Road
  - Land Owned by Dairies
  - Land Application on Non-Dairy Property
  - Public Land Survey System
- Note:  
 NM = Not Measured  
 \* = Suspect Data (Point not used in contouring)

**REFERENCES**  
 Roads: Doña Ana County, 2001  
 Aerial Photography: USGS, 2005  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)



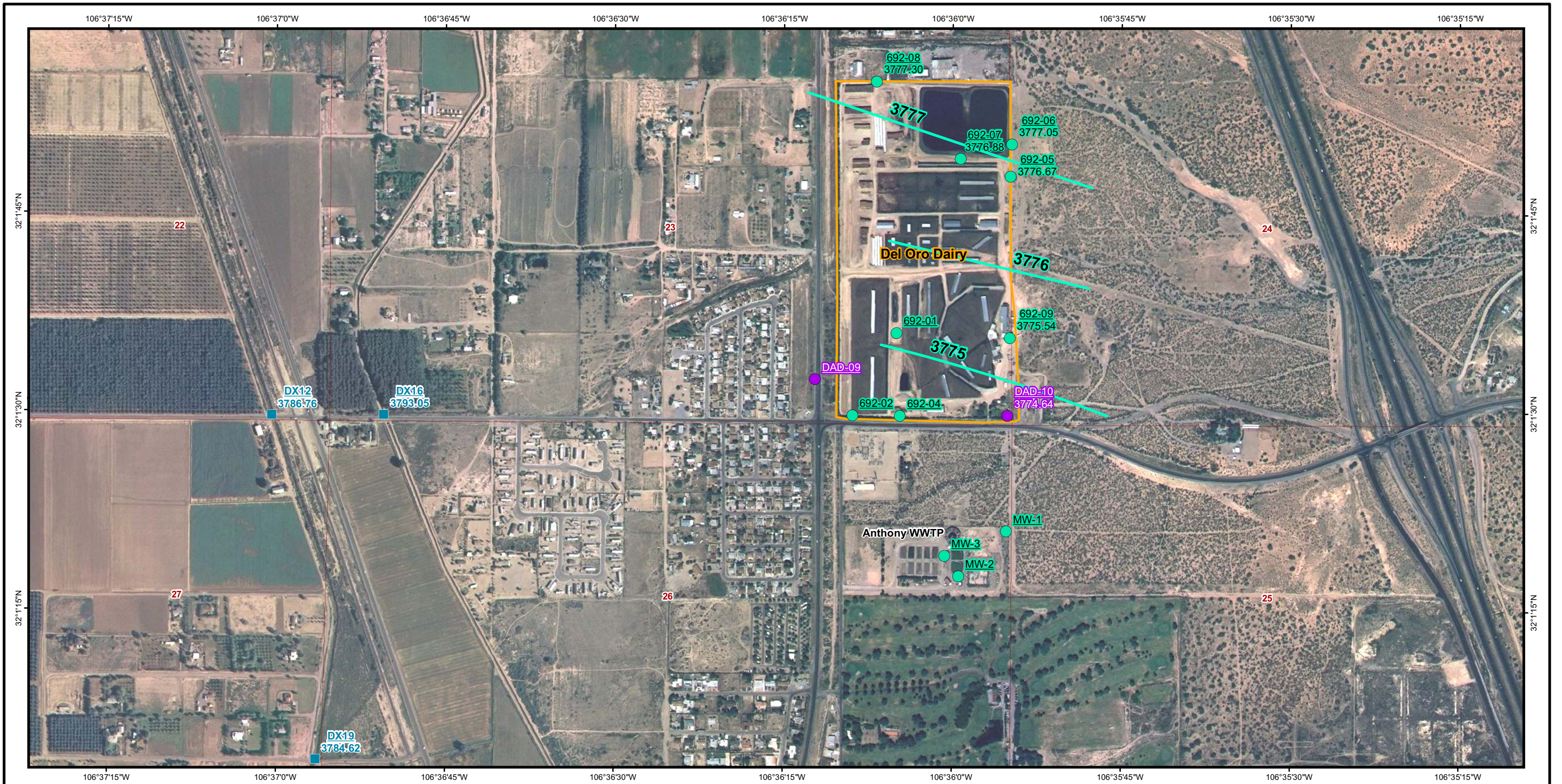
PROJECT: DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO

TITLE: POTENTIOMETRIC SURFACE MAP,  
 JULY AND AUGUST 2011, CENTRAL PORTION

DATE:	DATE:	DATE:	DATE:
DESIGNED BY:	CHECKED BY:	DATE:	DATE:
DRAWN BY:	DATE:	DATE:	DATE:

FIGURE 3





**LEGEND:**

- DX Location
- Discharge Plan Well With Water Elevations (Feet MSL)
- Abatement Plan Well With Water Elevations (Feet MSL)
- Potentiometric Contour
- - - Potentiometric Contour - Assumed
- Land Owned by Dairies
- Public Land Survey System

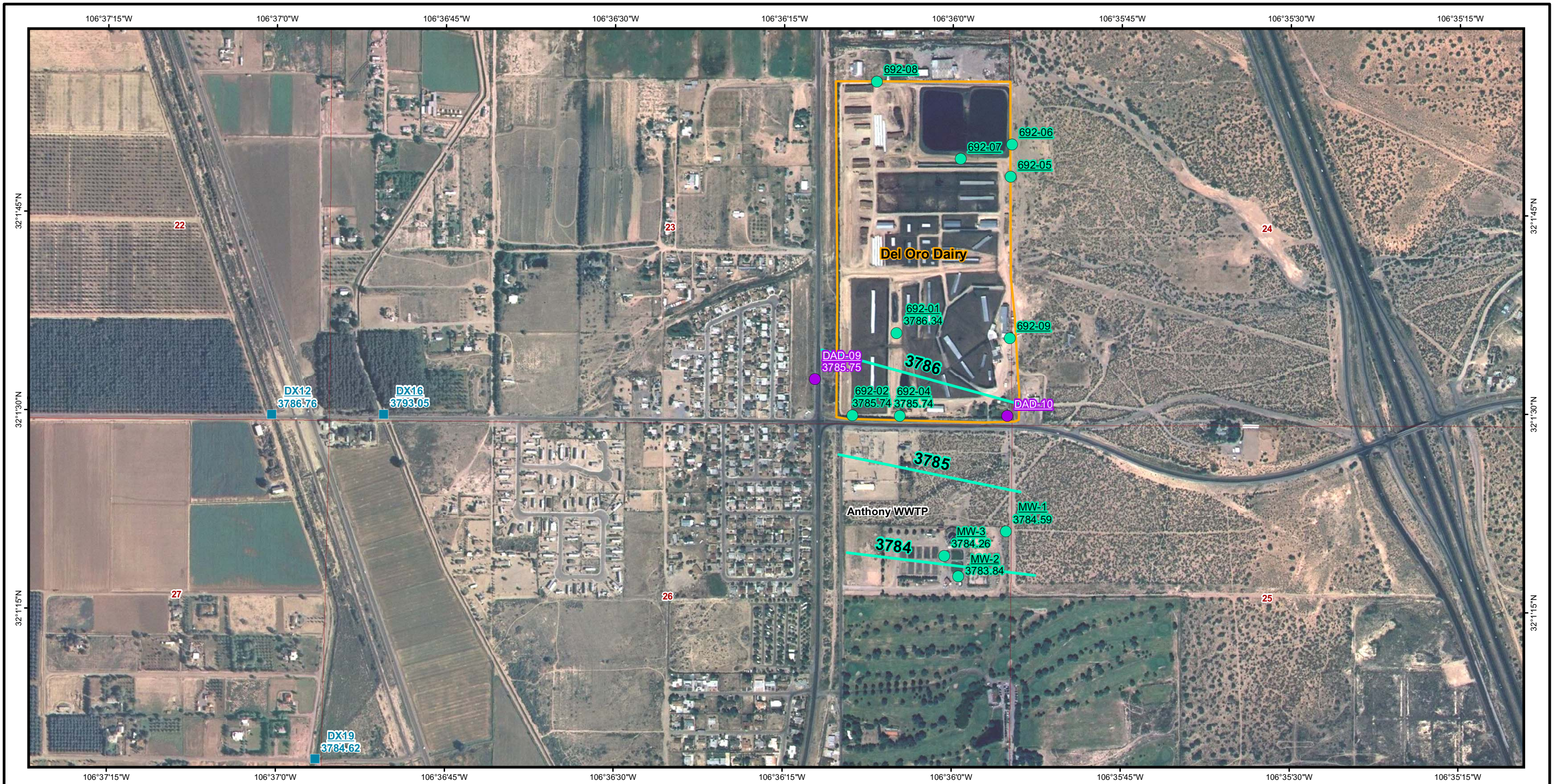
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 FEET  
 SCALE 1:9,000 1" = 750 FT  
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**REFERENCES**  
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 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)

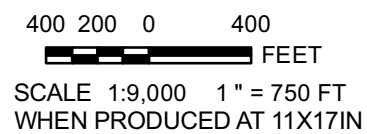
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<b>TITLE</b>		<b>POTENTIOMETRIC SURFACE MAP, JULY AND AUGUST 2011, SOUTHERN PORTION REGIONAL AQUIFER</b>	
	PROJECT No.	deloro_pot_regional200908.mxd	
	DESIGN	SCALE	AS SHOWN
	GIS	CHECK	REV 0
	REVIEW	<b>FIGURE 4</b>	





**LEGEND:**

- DX Location
- Discharge Plan Well With Water Elevations (Feet MSL)
- Abatement Plan Well With Water Elevations (Feet MSL)
- Potentiometric Contour
- - - Potentiometric Contour - Assumed
- Land Owned by Dairies
- Public Land Survey System



**REFERENCES**

Aerial Photography: USGS, 2005  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)

<b>PROJECT</b>		<b>DOÑA ANA DAIRIES MESQUITE, NEW MEXICO</b>	
<b>TITLE</b>		<b>POTENTIOMETRIC SURFACE MAP, JULY AND AUGUST 2011, SOUTHERN PORTION PERCHED AQUIFER</b>	
		<b>FIGURE 5</b>	
PROJECT No.	deloro_pot_regional200908.mxd		
DESIGN	SCALE	AS SHOWN	REV 0
GIS			
CHECK			
REVIEW			





**LEGEND:**

- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Interstate Highway
- State Highway
- Other Road
- Land Owned by Dairies
- Land Application on Non-Dairy Property
- Public Land Survey System

**Note:**  
 \* Indicates data is suspect  
 Units are in mg/L

**REFERENCES**

Roads: Doña Ana County, 2001  
 Aerial Photography: USGS, 2005  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)

500 250 0 250 500  
 SCALE: 1" = 400 FT  
 WHEN PRODUCED AT 34X44IN

**DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO**

**GROUND WATER ANALYTICAL RESULTS,  
 JULY AND AUGUST 2011,  
 NORTHERN PORTION**

**EA**

FIGURE 6



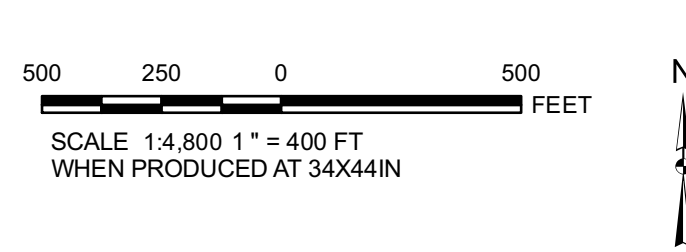


**LEGEND:**

- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Interstate Highway
- State Highway
- Other Road
- Land Owned by Dairies
- Land Application on Non-Dairy Property
- Public Land Survey System

**Note:**  
\* Indicates suspect data  
Units are in mg/L

**REFERENCES**  
 Roads: Doña Ana County, 2001  
 Aerial Photography: USGS, 2005  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT: DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO

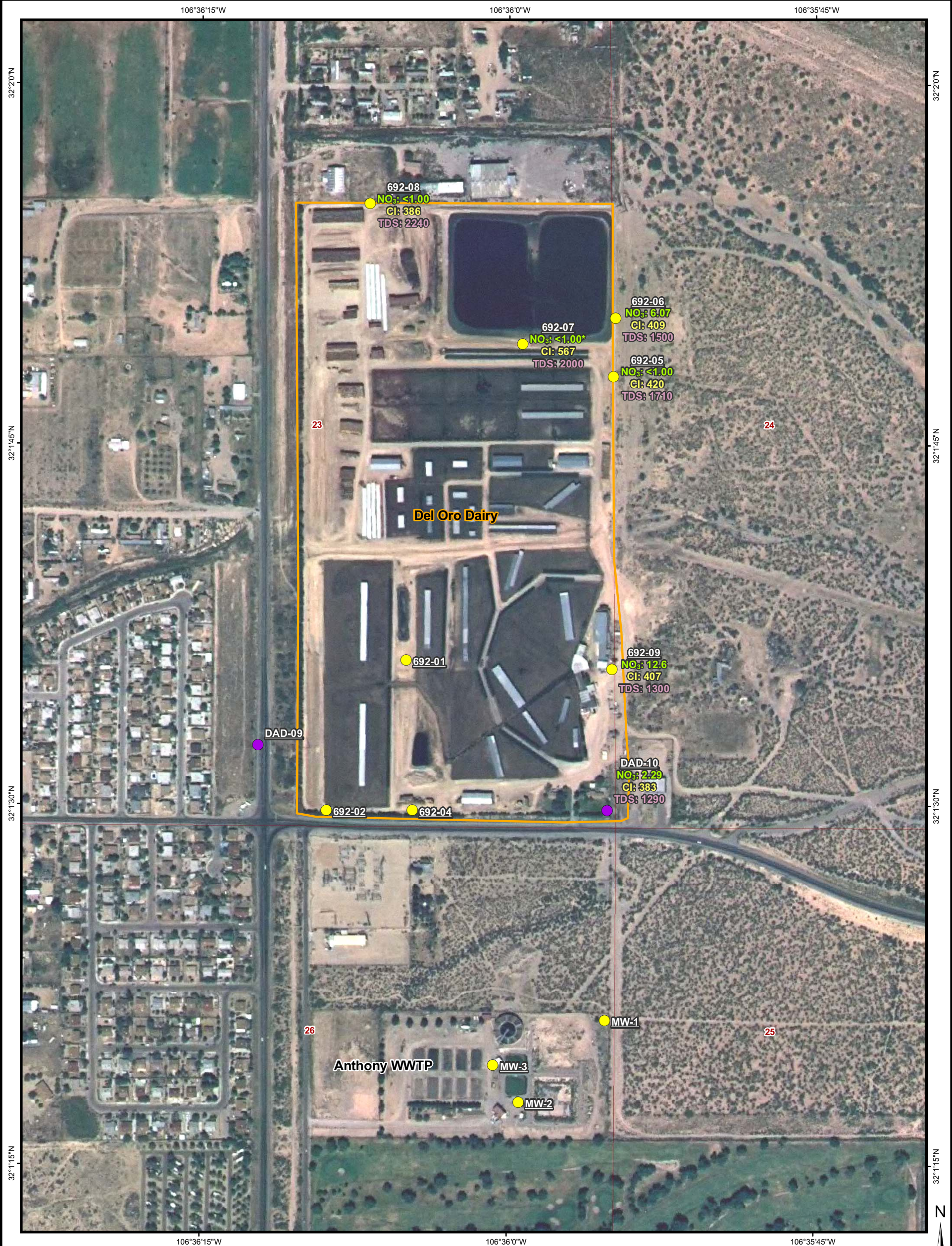
DATE: 07/20/11  
 BY: [Name]  
 CHECKED: [Name]

**GROUND WATER ANALYTICAL RESULTS  
 JULY AND AUGUST 2011,  
 CENTRAL PORTION**

**EA**

FIGURE 7



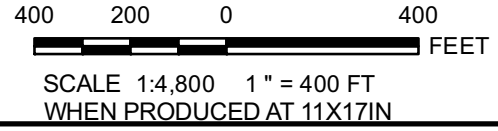


**LEGEND:**

- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Land Owned by Dairies
- Public Land Survey System

**REFERENCES**

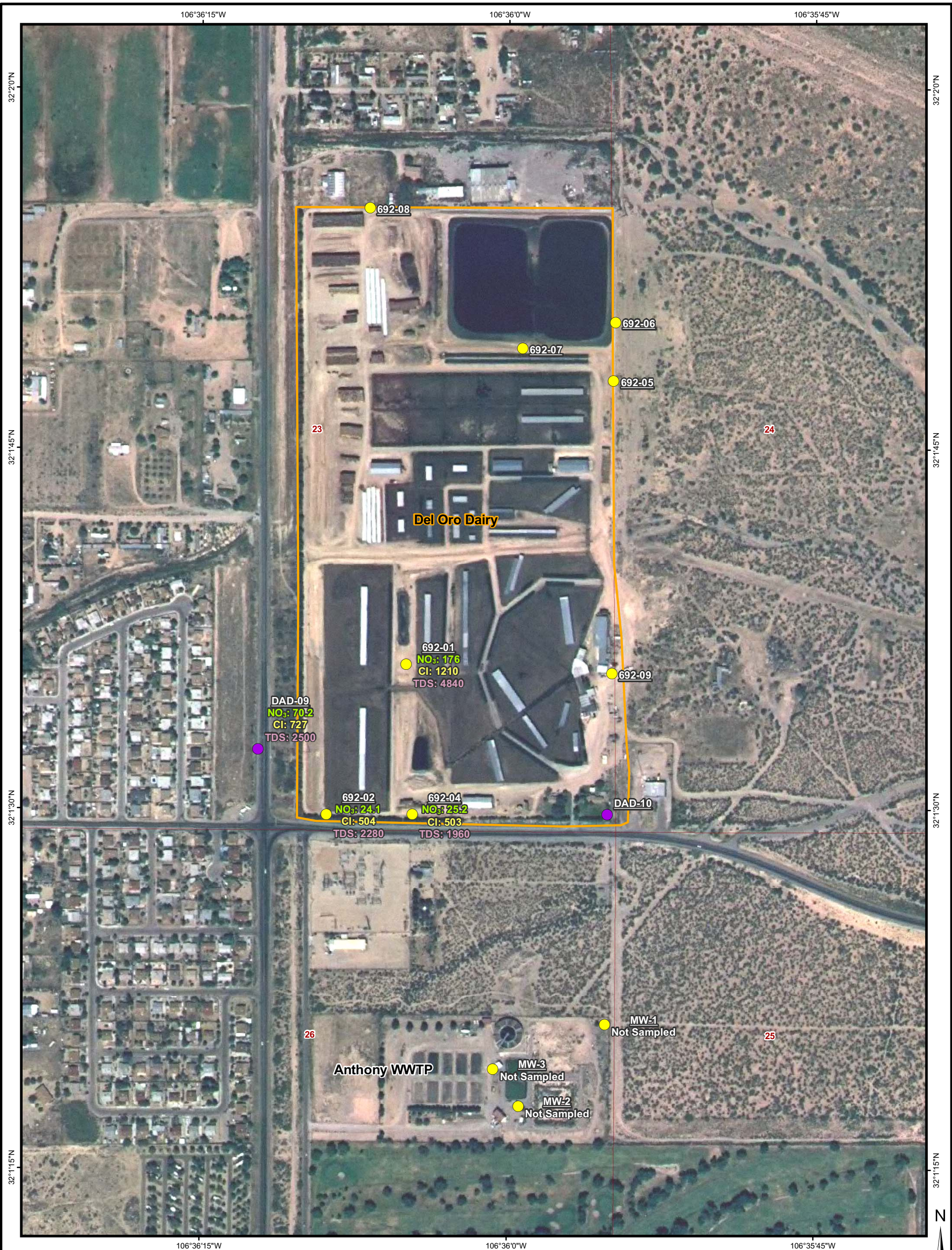
Aerial Photography: USGS, 2005  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)



<b>PROJECT</b>		<b>DOÑA ANA DAIRIES MESQUITE, NEW MEXICO</b>	
<b>TITLE</b>		<b>GROUNDWATER ANALYTICAL RESULTS JULY AND AUGUST 2011, SOUTHERN PORTION, REGIONAL AQUIFER</b>	
<b>PROJECT No.</b>		analytical_regional200908.mxd	
<b>DESIGN</b>		SCALE AS SHOWN	REV 0
<b>GIS</b>		<b>FIGURE 8</b>	
<b>CHECK</b>			
<b>REVIEW</b>			







**LEGEND:**

- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Land Owned by Dairies
- Public Land Survey System

**REFERENCES**

Aerial Photography: USGS, 2005  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)

PROJECT			
<b>DOÑA ANA DAIRIES MESQUITE, NEW MEXICO</b>			
TITLE <b>GROUNDWATER ANALYTICAL RESULTS JULY AND AUGUST 2011, SOUTHERN PORTION, PERCHED AQUIFER</b>			
	PROJECT No.	deloro_analytical_perched200908.mxd	
	DESIGN		SCALE AS SHOWN   REV 0
	GIS		<b>FIGURE 9</b>
	CHECK		
REVIEW			



**APPENDIX A  
SAMPLING FIELD FORMS**

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD-01 Date gauged 7.20.11  
 Site \_\_\_\_\_ Time gauged 1430  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 67.59 Feet Height of fluid column 8.89 Feet  
 Total depth 76.48 Feet Volume in well 1.51 Gallons

(3 well volumes = 4.53 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7.20.11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>1442</u>	<u>1.5</u>	<u>21.1</u>	<u>24.78</u>	<u>7.44</u>	<u>158</u>	<u>17.05</u>
<u>1450</u>	<u>2.5</u>	<u>21.1</u>	<u>26.46</u>	<u>7.62</u>	<u>134</u>	<u>19.27</u>
<u>1455</u>	<u>3.5</u>	<u>20.8</u>	<u>26.78</u>	<u>7.57</u>	<u>137</u>	<u>19.45</u>

Actual purge volume 4.5 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7.20.11 1500 Purged/sampled by David Tarango

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft





**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID D7A 03 Date gauged 7/20/11  
 Site \_\_\_\_\_ Time gauged 14:03  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 10.16 Feet Height of fluid column 3.75 Feet  
 Total depth 13.91 Feet Volume in well 0.64 Gallons

(3 well volumes = 2 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged \_\_\_\_\_ Purge Method Boyer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:09	1.26	74.42	8829	7.92	-115.8	23.72
14:12	1.5	74.14	8541	7.73	-107.8	9.96
14:15	2	72.43	8000	7.19	-146.1	8.54
14:17	2.5	71.47	8174	7.02	-143	5.70

Actual purge volume 2.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 14:19 7/20/11 Purged/sampled by Florian

Sample method Boyer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD 05 Date gauged 7-20-11  
 Site \_\_\_\_\_ Time gauged 12:56  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 12.15 Feet Height of fluid column 11.53 Feet  
 Total depth 23.68 Feet Volume in well 1.96 Gallons

(3 well volumes = 6 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged \_\_\_\_\_ Purge Method Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:08	3	69.21	3640	8.05	-62.3	11.60
13:12	5	69.40	3458	8.04	-57.3	5.07
13:15	6	69.46	3470	7.70	-39.5	5.01

Actual purge volume 6 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 13:19 7/20/11 Purged/sampled by W. H. G. S.

Sample method Bail

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD-06 Date gauged 7.20.11  
 Site \_\_\_\_\_ Time gauged 1235  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 80.94 Feet Height of fluid column .41 Feet  
 Total depth 81.35 Feet Volume in well .070 Gallons

(3 well volumes = .21 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7.20.11 1242 Purge Method BAILER

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>1242</u>	<u>.10</u>	<u>26.6</u>	<u>2192</u>	<u>8.01</u>	<u>132</u>	<u>1550</u>
<u>1244</u>	<u>.21</u>	<u>25.3</u>	<u>2223</u>	<u>7.65</u>	<u>133</u>	<u>1558</u>

Actual purge volume .25 gal. Field measurements stabilized within ± 10%?

Time/date sampled 7.20.11 1249 Purged/sampled by David Tarango

Sample method BAILER

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD-07 Date gauged 7.20.11  
 Site \_\_\_\_\_ Time gauged 1053  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 88.98 Feet Height of fluid column 11.87 Feet  
 Total depth 100.85 Feet Volume in well 2.02 Gallons

(3 well volumes = 6.06 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7.20.11 1114 Purge Method by HAND

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>1114</u>	<u>2</u>	<u>27.5</u>	<u>30.07</u>	<u>7.20</u>	<u>144</u>	<u>21.90</u>
<u>1125</u>	<u>4</u>	<u>26.7</u>	<u>29.70</u>	<u>7.18</u>	<u>140</u>	<u>21.73</u>
<u>1151</u>	<u>6</u>	<u>27.9</u>	<u>29.63</u>	<u>7.14</u>	<u>158</u>	<u>21.93</u>

Actual purge volume 6 gal. Field measurements stabilized within ± 10%?

Time/date sampled 7.20.11 1151 Purged/sampled by by HAND David Tarango

Sample method BAILEY

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD 08 Date gauged 7-20-11  
 Site \_\_\_\_\_ Time gauged 12:10  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2" Inches  
 Depth to water 49.81 Feet Height of fluid column 4.64 Feet  
 Total depth 54.45 Feet Volume in well 0.8 Gallons

(3 well volumes = 2.4 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 12:15 7-20-11 Purge Method Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:18	1	76.99	5417	7.57	-82.6	13.86
12:22	2	76.02	5305	6.90	-77.7	10.02
12:26	2.5	75.98	5406	6.5	-75.6	8.64

Actual purge volume 2.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 12:43 7/20/11 Purged/sampled by Heinrich

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD09  
DADA Date gauged 7.20.11

Site \_\_\_\_\_ Time gauged 10:07

Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches

Depth to water 52.44 Feet Height of fluid column 8.59 Feet

Total depth 60.83 Feet Volume in well 1.43 Gallons

(3 well volumes = 4.3 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7.20.11 1018 Purge Method by HAND

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
<u>1018</u>	<u>2</u>	<u>24.0</u>	<u>39.77</u>	<u>7.31</u>	<u>145</u>	<u>30.00</u>
<u>1021</u>	<u>3</u>	<u>23.5</u>	<u>39.20</u>	<u>7.12</u>	<u>141</u>	<u>29.60</u>
<u>1025</u>	<u>4</u>	<u>23.3</u>	<u>41.04</u>	<u>7.02</u>	<u>139</u>	<u>31.14</u>

Actual purge volume 4.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 7.20.11 1027 Purged/sampled by by HAND DAVID TARALGO

Sample method BAUER

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft.

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD 10 Date gauged 7-20-11  
 Site \_\_\_\_\_ Time gauged 8:52  
 Depth to PSH 0 Feet Well diameter 2" Inches  
 Depth to water 80.34 Feet Height of fluid column 12.12 Feet  
 Total depth 92.46 Feet Volume in well 2.06 Gallons

(3 well volumes = 6.2 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7-20-11 9:19 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:18	4.5	23.0	2294	8.05	166	1632
9:25	5.5	23.2	2224	7.70	158	1592
9:32	6.5	22.6	2221	7.40	141	1584

Actual purge volume 6 gal. Field measurements stabilized within ± 10%? —

Time/date sampled 9:42 7/20/11 Purged/sampled by T. Bruns

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft





**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 833-02 Date gauged 7/21/11  
 Site Big Sky Time gauged 12:21  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 32.90 Feet Height of fluid column 24.82 Feet  
 Total depth 57.72 Feet Volume in well 16.38 Gallons

(3 well volumes = 49 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 12:25 7/21/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>12:45</u>	<u>20</u>	<u>69.68</u>	<u>5254</u>	<u>7.45</u>	<u>-13.5</u>	<u>3.74</u>
<u>13:02</u>	<u>40</u>	<u>69.66</u>	<u>5269</u>	<u>7.39</u>	<u>-16.3</u>	<u>3.49</u>
<u>13:06</u>	<u>45</u>	<u>69.68</u>	<u>5272</u>	<u>7.35</u>	<u>-17.3</u>	<u>3.47</u>
<u>13:10</u>	<u>49</u>	<u>69.63</u>	<u>5268</u>	<u>7.32</u>	<u>-18.1</u>	<u>3.45</u>

Actual purge volume 50 gal. Field measurements stabilized within ± 10%?     
 Time/date sampled 13:12 7/21/11 Purged/sampled by Hrinovs  
 Sample method Pump  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 833-04 Date gauged 7/21/11  
 Site Big Sky Time gauged 11:37  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 40.99 Feet Height of fluid column 6.93 Feet  
 Total depth 47.92 Feet Volume in well 4.6 Gallons

(3 well volumes = 13.7 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 11:48 7/21/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>11:53</u>	<u>5</u>	<u>71.66</u>	<u>4991</u>	<u>7.56</u>		<u>3.70</u>
<u>12:00</u>	<u>10</u>	<u>71.83</u>	<u>5059</u>	<u>7.58</u>	<u>-9.2</u>	<u>2.42</u>
<u>12:05</u>	<u>13</u>	<u>71.89</u>	<u>5043</u>	<u>7.25</u>	<u>-10.1</u>	<u>2.37</u>

Actual purge volume 14 gal. Field measurements stabilized within ± 10%?

Time/date sampled 12:06 7/21/11 Purged/sampled by Klein

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 833-05 Date gauged 7.21.11  
 Site \_\_\_\_\_ Time gauged 1045  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 103.27 Feet Height of fluid column 10.98 Feet  
 Total depth 74.25 Feet Volume in well 7.25 Gallons

(3 well volumes = 21.74 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7.21.11 1115 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>1115</u>	<u>10</u>	<u>27.3</u>	<u>497704970</u>	<u>7.84</u>	<u>252</u>	<u>3800</u>
<u>1118</u>	<u>15</u>	<u>25.7</u>	<u>5049</u>	<u>7.77</u>	<u>69101</u>	<u>3932</u>
<u>1122</u>	<u>20</u>	<u>25.2</u>	<u>5167</u>	<u>7.49</u>	<u>6875</u>	<u>3988</u>

Actual purge volume 22 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7.21.11 1124 Purged/sampled by David Tarango

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 833-06 Date gauged 7/21/11  
 Site B. J. Sky Time gauged 9:10  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 72.73 Feet Height of fluid column 10.69 Feet  
 Total depth 83.42 Feet Volume in well 7.05 Gallons

(3 well volumes = 21.2 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:20 7/21/11 Purge Method Deep Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>9:38</u>	<u>6</u>	<u>71.8</u>	<u>3697</u>	<u>7.37</u>	<u>-9.7</u>	<u>9.51</u>
<u>9:53</u>	<u>15</u>	<u>71.89</u>	<u>3857</u>	<u>6.96</u>	<u>-7.2</u>	<u>8.12</u>
<u>10:02</u>	<u>20</u>	<u>71.91</u>	<u>3905</u>	<u>6.85</u>	<u>-7.2</u>	<u>7.80</u>

Actual purge volume 21 gal. Field measurements stabilized within ± 10%?

Time/date sampled 10:05 7/21/11 Purged/sampled by Mearns

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 833-07 Date gauged 7-21-11  
 Site \_\_\_\_\_ Time gauged 1150  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 59.03 Feet Height of fluid column 47+14.71 Feet  
 Total depth 73.74 Feet Volume in well 29.13 9.7 Gallons  
 (3 well volumes = 29.13 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7-21-11 1226 Purge Method PUMP

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>1226</u>	<u>10</u>	<u>24.9</u>	<u>6473</u>	<u>7.59</u>	<u>116</u>	<u>5076</u>
<u>1232</u>	<u>20</u>	<u>24.6</u>	<u>6458</u>	<u>7.66</u>	<u>78</u>	<u>5071</u>
<u>1237</u>	<u>30</u>	<u>24.0</u>	<u>6467</u>	<u>7.36</u>	<u>97</u>	<u>50.68</u>

Actual purge volume 30 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7-21-11 1240 Purged/sampled by David Tarango

Sample method PUMP

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID BB3-08 Date gauged 7.21.11  
 Site Big Sky Time gauged 1358  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4" Inches  
 Depth to water 58.39 Feet Height of fluid column 14.8 Feet  
 Total depth 73.19 Feet Volume in well 9.77 Gallons

(3 well volumes = 29.31 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7.21.11 1413 Purge Method PUMP

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1413	10	25.8	5125	7.52	128	3944
1419	20	26.3	5193	7.50	105	4032
1425	30	24.8	5198	7.58	109	4024

Actual purge volume 30 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7.21.11 1427 Purged/sampled by David Tarango

Sample method PUMP

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 883-09 Date gauged 7-21-11  
 Site Big Sky Time gauged 1505  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 25.29 Feet Height of fluid column 14.42 Feet  
 Total depth 39.81 Feet Volume in well 9.58 Gallons

(3 well volumes = 28.74 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7-21-11 15:04 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>15:20</u>	<u>10</u>	<u>22.9</u>	<u>7467</u>	<u>7.44</u>	<u>74</u>	<u>5944</u>
<u>15:21</u>	<u>20</u>	<u>26.3</u>	<u>7255</u>	<u>7.37</u>	<u>75</u>	<u>5718</u>
<u>15:26</u>	<u>30</u>	<u>23.8</u>	<u>6932</u>	<u>7.32</u>	<u>74</u>	<u>5844</u>

Actual purge volume 30 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7-21-11 15:27 Purged/sampled by David Tarango

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 340-01 Date gauged 7/25/11  
 Site Bright star Time gauged 07:55  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4" Inches  
 Depth to water 38.97 Feet Height of fluid column 9.12 Feet  
 Total depth 48.09 Feet Volume in well 6.01 Gallons

(3 well volumes = 18.0 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 8:20 7/25/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<del>DO (mg/L)</del> <u>VOC</u>
<u>8:30</u>	<u>5</u>	<u>21.8</u>	<u>4099</u>	<u>8.2</u>	<u>101</u>	<u>3791</u>
<u>8:40</u>	<u>10</u>	<u>22.0</u>	<u>4800</u>	<u>7.8</u>	<u>111</u>	<u>3795</u>
<u>8:55</u>	<u>15</u>	<u>22.4</u>	<u>4843</u>	<u>7.1</u>	<u>191</u>	<u>3735</u>
<u>9:10</u>	<u>18</u>	<u>22.0</u>	<u>4848</u>	<u>8.0</u>	<u>198</u>	<u>3737</u>

Actual purge volume 18 gal. Field measurements stabilized within ± 10%?

Time/date sampled 9:20 7/25/11 Purged/sampled by Mike Manice

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 340-02 Date gauged 7/22/11  
 Site Brig Star Time gauged 11:32  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 50.24 Feet Height of fluid column 6.09 Feet  
 Total depth 56.33 Feet Volume in well 4.01 Gallons  
 (3 well volumes = 12 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 11:30 7/22/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>11:44</u>	<u>3</u>	<u>74.84</u>	<u>5048</u>	<u>7.44</u>	<u>173.5</u>	<u>18.30</u>
	<u>4</u>	<u>73.74</u>	<u>4977</u>	<u>7.58</u>	<u>187.1</u>	<u>11.92</u>
<u>12:00</u>	<u>5</u>	<u>73.61</u>	<u>4867</u>	<u>7.72</u>	<u>222.0</u>	<u>11.84</u>

Actual purge volume 5 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_  
 Time/date sampled 12:15 7/22/11 Purged/sampled by Meinas  
 Sample method Bailer  
 Requested analyses \_\_\_\_\_  
 Comments/observations Not enough water to purge 12 gal

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

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### ATTACHMENT E MONITOR WELL SAMPLING FIELD FORM

#### FLUID LEVEL DATA

Well ID 70/86/340-01 Date gauged 7/25/11  
 Site Bright Star Time gauged 9:42  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 44.61 Feet Height of fluid column 23.22 Feet  
 Total depth 67.83 Feet Volume in well 15.32 Gallons  
 (3 well volumes = 46 gallons)

#### GROUNDWATER SAMPLING DATA

Time/date purged 9:55 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:01	5	23.1	7142	7.9	127	5700
10:10	15	23.2	8599	7.2	147	7025
10:23	25	23.0	8594	7.16	156	7003
10:38	40	22.2	8560	7.17	145	7039
10:44	45	21.6	8584	7.06	142	7030
10:45	46	21.6	8579	7.04	141	7098

Actual purge volume 47 gal. Field measurements stabilized within ± 10%?

Time/date sampled 10:46 7/22/11 Purged/sampled by Meiners

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 86/340-01 Date gauged 7/25/11  
 Site Bright Star Time gauged 11:13  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 50.39 Feet Height of fluid column 20.7 Feet  
 Total depth 71.09 Feet Volume in well 13.66 Gallons  
 (3 well volumes = 41 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 11:15 Purge Method PUMP

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:35	10	21.3	4471	7.53	147	3420
11:50	20	23.0	4413	7.77	151	3369
12:05	30	22.9	4298	7.75	165	3270
12:20	40	23.0	4210	8.0	147	3200
12:23	41	22.9	4210	7.7	153	3200

Actual purge volume 42 gal. Field measurements stabilized within ± 10%?

Time/date sampled 12:23 Purged/sampled by Mike Monroe

Sample method PUMP

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft







**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 74-03 Date gauged 7/19/11  
 Site Buena Vista Drains II Time gauged 10:29  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 13.17 Feet Height of fluid column 7.19 Feet  
 Total depth 20.36 Feet Volume in well 4.74 Gallons

(3 well volumes = 14.22 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 12:18 8/1/11 Purge Method Redi Flo pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<sup>TPS</sup> DO (mg/L)
<u>12:18</u>	<u>5</u>	<u>26.7</u>	<u>7369</u>	<u>6.89</u>	<u>47</u>	<u>5858</u>
<u>12:27</u>	<u>10</u>	<u>26.8</u>	<u>7363</u>	<u>7.02</u>	<u>49</u>	<u>5861</u>
<u>12:33</u>	<u>15</u>	<u>26.6</u>	<u>7360</u>	<u>7.03</u>	<u>48</u>	<u>5864</u>

Actual purge volume 15 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 12:35 8/1/11 Purged/sampled by Jerry Stanson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 74-04 Date gauged 7/29/11  
 Site Buena Vista Time gauged 14:13  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 45.63 Feet Height of fluid column 13.78 Feet  
 Total depth 58.91 Feet Volume in well 8.76 Gallons

(3 well volumes = 26.3 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 14:22 7/29/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:34	10	74.37	3022	7.58	253.2	3.81
14:48	20	74.36	2946	7.62	134.5	2.65
14:59	26	73.56	2874	7.51	111.1	3.00
15:03	27.5	73.45	2863	7.61	110.7	3.05

Actual purge volume 27.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 15:05 7/29/11 Purged/sampled by MW03

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 126-04 Date gauged 8-3-11  
 Site Del Norte Time gauged 14:51  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 30.39 Feet Height of fluid column 7.86 Feet  
 Total depth 38.25 Feet Volume in well 5.2 Gallons

(3 well volumes = 15.5 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 14:57 8-3-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:07	5	71.60	2278	7.07	94.0	1.68
15:16	10	71.87	3395	7.03	72.2	0.76
15:21	15	72.23	3446	6.99	65.9	0.66

Actual purge volume 16 gal. Field measurements stabilized within ± 10%?

Time/date sampled 8/3/11 Purged/sampled by Micous

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 126-07 Date gauged 8-4-11  
 Site Del Norte Time gauged 9:02  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 30.50 Feet Height of fluid column 7.82 Feet  
 Total depth 38.32 Feet Volume in well 1.33 Gallons  
 (3 well volumes = 4 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:05 Purge Method Backs

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:09	2	71.98	4198	7.33	270.0	8.12
9:14	3	71.52	4131	7.26	259.0	4.35
9:21	4	70.47	3994	7.04	254.8	5.27
9:23	5	70.36	3990	7.01	250.8	5.25

Actual purge volume 5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 9:28 8-4-11 Purged/sampled by Heins

Sample method 8-40 Backs

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 126-09 Date gauged 8-4-11  
 Site Del Norte Time gauged 7:38  
 Depth to PSH 0 Feet Well diameter 2 Inches  
 Depth to water 73.42 Feet Height of fluid column 8.09 Feet  
 Total depth 81.51 Feet Volume in well ~~80.0~~ 1.37 Gallons  
 (3 well volumes = 4.1 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 8:20 8-4-11 Purge Method Boiler

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:25	<del>1</del> 1	75.02	4844	7.46	216.9	8.95
8:28	1.5	74.75	49.97	7.65	220.4	8.33
8:32	2.5	74.49	49.27	7.67	227.9	8.52

Actual purge volume 2.5 gal. Field measurements stabilized within ± 10%?   ✓  

Time/date sampled 8-4-11 Purged/sampled by Meinos

Sample method Boiler

Requested analyses \_\_\_\_\_

Comments/observations not enough water in well to purge full amount

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 126-12 Date gauged 8/4/11  
 Site Del Norte Time gauged 9:53  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 18.55 Feet Height of fluid column 11.49 Feet  
 Total depth 30.04 Feet Volume in well 7.58 Gallons

(3 well volumes = 22.75 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:08 8/4/11 Purge Method Red Flow Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
10:20	5	23.6	3856	7.79	83	2890
10:28	10	23.7	3858	7.51	69	2901
10:36	15	23.4	3837	7.54	97	2896
10:44	20	22.8	3824	7.39	91	2886
10:52	24	22.7	3826	7.37	87	2882

Actual purge volume 24 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 10:55 8/4/11 Purged/sampled by Jerry Lawson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 126-13 Date gauged 8/4/11  
 Site Del Norte Time gauged 8:52  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 37.63 Feet Height of fluid column 22.86 Feet  
 Total depth 60.49 Feet Volume in well 3.88 Gallons

(3 well volumes = 11.65 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 905 8/4/11 Purge Method Bailed

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<del>DO (mg/L)</del> <sup>TDS</sup>
9:10	4	24.8	4586	7.41	19	3453
9:24	4	23.4	4530	7.34	19	3459
9:38	4	23.1	4526	7.37	17	3457

Actual purge volume 12 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 9:43 8/4/11 Purged/sampled by Jerry Stawson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 692-01 Date gauged 7/29/11  
 Site Del Oro Time gauged 11:24  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 57.69 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth pump Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 11:35 7/29/11 Purge Method \_\_\_\_\_

Time	Purge Volume (gal)	Temp (C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:37	10	73.76	5614	6.79	204.9	4.81
11:44	15	73.75	5634	6.88	146.2	4.78
11:49	20	73.14	5497	7.01	157.7	4.86
11:52	25	72.89	5521	6.88	158.9	4.86

Actual purge volume 25 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 7/29/11 11:55 Purged/sampled by Harris

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 692-02 Date gauged 7/29/14  
 Site Del Oro Time gauged 10:05  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 54.73 Feet Height of fluid column 11.79 Feet  
 Total depth 66.52 Feet Volume in well 7.78 Gallons

(3 well volumes = 23.3 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:15 7/29/14 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:38	12	74.19	2935	6.99	210.6	0.91
10:44	15	74.31	2971	6.98	208.2	0.81
10:50	18	74.29	3003	7.01	206.0	0.77
10:57	22	74.01	3037	6.98	203.7	0.73

Actual purge volume 23 gal. Field measurements stabilized within ± 10%?

Time/date sampled 11:01 7/29/14 Purged/sampled by Moynis

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 692-04 Date gauged 7/29/11  
 Site Del Oro Time gauged 9:00  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4" Inches  
 Depth to water 56.72 Feet Height of fluid column 4.68 Feet  
 Total depth 61.40 Feet Volume in well 3.08 Gallons

(3 well volumes = 9.2 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 4:20 7/29/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
4:27	5	74.31	3058	7.19	205.0	5.21
9:33	7	74.40	3109	7.10	185.2	3.69
9:40	9	74.32	3128	7.03	179.9	3.3

Actual purge volume 9.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 9:43 7/29/11 Purged/sampled by Reiners

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 692-05 Date gauged 8-1-11  
 Site Del Oro Time gauged 9:28  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 77.53 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth Pump Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:40 8-1-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:44	5	72.93	2307	7.99	200.7	7.25
10:06	7	73.06	2390	7.94	168.5	5.03
10:14	10	73.44	2333	7.67	166.7	7.80

Actual purge volume 10 gal. Field measurements stabilized within ± 10%?

Time/date sampled 10:5 8-1-11 Purged/sampled by Meinos

Sample method \_\_\_\_\_  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 692-06 Date gauged 8-1-11  
 Site Del Oro Time gauged 10:57  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 79.41 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth Pump Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:59 8-1-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:02	3	71.98	2318	8.16	255.3	7.60
11:05	5	72.26	2330	7.67	112.3	4.56
11:07	10	72.33	2348	7.70	111.6	3.54

Actual purge volume 10 gal. Field measurements stabilized within ± 10%?

Time/date sampled 11:15 8-1-11 Purged/sampled by Marius

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID: 692-08 Site: Well 08

Date gauged: 8-1-11 Time gauged: 12:12

Depth to PSH: \_\_\_\_\_ Feet

Depth to water: 66.61 Feet

Total depth: 100 Feet

Well diameter: 4 Inches

Height of fluid column: \_\_\_\_\_ Feet

Volume in well: \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged: 12:25 Purge Method: Pump

Time	Purge Volume (gal)	Temp (C)	Spc (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:35	4	75.15	2250	7.68	80.0	3.17
12:40	5	75.09	2228	7.61	67.0	2.28
12:42	6	73.53	2158	7.60	64.6	1.62
12:48	8	73.44	2106	7.72	75.1	2.88

Actual purge volume: 8 gal

Field measurements stabilized within ± 10%? ✓

Purged/sampled by: Blumen

Time/date sampled: 12:50 8-1-11

Sample method: Pump

Requested analyses: \_\_\_\_\_

Comments/observations: \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID: 692-09 Date gauged: 8-1-11

Site: Del Oro Time gauged: 8:45

Depth to PSH: \_\_\_\_\_ Feet

Depth to water: 80.92 Feet

Total depth: 80.92 Feet

Well diameter: 4 Inches

Height of fluid column: \_\_\_\_\_ Feet

Volume in well: \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged: 8:57 1-8-11 Purge Method: Pump

Time	Purge Volume (gal)	Temp (C)	Spc (µs/cm)	pH	ORP (mV)	DO (mg/L)
09:04	10	23.87	2258	8.05	142.0	1.83
09:07	15	24.34	2349	7.99	124.7	1.76
09:10	20	24.32	2652	7.65	127.1	1.96
09:12	25	24.30	2407	7.53	128.9	1.65

Actual purge volume: 25 gal

Field measurements stabilized within ± 10%?   

Time/date sampled: 9:17 8/1/11 Purged/sampled by: McGraw

Sample method: Pump

Requested analyses: \_\_\_\_\_

Comments/observations: \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 624-01 Date gauged 8-3-11  
 Site \_\_\_\_\_ Time gauged 10:04  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 23.42 Feet Height of fluid column 23.46 Feet  
 Total depth 46.88 Feet Volume in well 15.5 Gallons

(3 well volumes = 46.5 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:10 8-3-11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:21	10	69.21	5537	7.02	373.6	8.50
10:33	20	68.33	6034	6.95	262.3	8.25
10:45	30	68.49	6290	6.86	242.1	8.01
10:59	40	68.50	6499	6.85	226.5	7.91
11:05	45	68.32	6778	6.90	221.3	6.91

Actual purge volume 45 gal. Field measurements stabilized within ± 10%?

Time/date sampled 11:08 8-3-11 Purged/sampled by Migaus

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 624-02 Date gauged 8-3-11  
 Site Dominiguez Time gauged 8:52  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 15.22 Feet Height of fluid column 22.39 Feet  
 Total depth 37.61 Feet Volume in well 14.77 Gallons

(3 well volumes = 44.3 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 8:54 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:16	20	68.92	5689	7.02	307.1	4.99
9:27	30	68.93	5751	6.85	250.6	7.33
9:34	35	68.84	5743	6.92	224.1	7.01
9:42	40	68.04	5722	6.96	209.8	7.49
9:47	44	67.89	5686	6.99	206.1	7.37

Actual purge volume 44 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 9:50 8-3-11 Purged/sampled by Perinos

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 624-05 Date gauged 8/3/11  
 Site Dominguez #1 Time gauged 11:29  
 Depth to PSH \_\_\_\_\_ Feet Well diameter \_\_\_\_\_ Inches  
 Depth to water 13.38 Feet Height of fluid column 3.67 Feet  
 Total depth 17.05 Feet Volume in well 2.42 Gallons  
 (3 well volumes = 7.26 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 11:43 8/3/11 Purge Method Fultz Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<del>TOC</del> TOC
11:45	2	28.7	2701	7.89	211	1951
11:52	4	31.4	2871	7.69	207	2074
11:59	2	25.4	3168	7.58	197	2338
12:04	7.5	28.6	3129	7.51	189	2326

Actual purge volume 7.5 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 12:04 8/3/11 Purged/sampled by Jeremy Slawson

Sample method Fultz Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft











**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 42-03 Date gauged 8-1-11  
 Site Deering road 2 Time gauged 14.05  
 Depth to PSH \_\_\_\_\_ Feet Well diameter \_\_\_\_\_ Inches  
 Depth to water 91.34 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth \_\_\_\_\_ Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 14:15 8-1-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>14:19</u>	<u>5</u>	<u>78.63</u>	<u>5892</u>	<u>7.44</u>	<u>201.2</u>	<u>2.04</u>
<u>14:23</u>	<u>10</u>	<u>79.39</u>	<u>5911</u>	<u>7.37</u>	<u>190.1</u>	<u>2.30</u>
<u>14:27</u>	<u>20</u>	<u>79.79</u>	<u>5433</u>	<u>7.36</u>	<u>177.9</u>	<u>1.28</u>
<u>14:30</u>	<u>25</u>	<u>79.92</u>	<u>5855</u>	<u>7.25</u>	<u>175.0</u>	<u>5.01</u>

Actual purge volume 25 gal. Field measurements stabilized within ± 10%?

Time/date sampled 14:35 8-1-11 Purged/sampled by Merius

Sample method \_\_\_\_\_  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 42-06 Date gauged 8-2-11  
 Site Downing Ave II Time gauged 10:32  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 2964 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth  pump  Feet Volume in well \_\_\_\_\_ Gallons  
 (3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:35 8-2-11 Purge Method  pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:38	10	73.14	4429	7.54	40.1	7.51
10:41	20	72.66	4401	7.94	52.0	7.44
10:46	30	72.49	4357	7.86	87.4	7.60
10:49	35	73.64	4415	7.72	90.2	7.37
10:51	40	73.44	4448	7.87	88.0	7.45

Actual purge volume 45 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_  
 Time/date sampled 10:54 8-2-11 Purged/sampled by Alonso  
 Sample method  pump   
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 42-08 Date gauged 8-2-11  
 Site Wilmington II Time gauged 13:05  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 75.65 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth \_\_\_\_\_ Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 8-2-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:16	10	73.02	2827	8.32	110.9	8.24
13:18	15	72.19	2802	8.65	89.7	7.65
13:22	20	71.61	2857	8.19	76.2	7.67
13:27	25	71.96	2904	7.96	59.8	7.59

Actual purge volume 30 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 13:30 8-2-11 Purged/sampled by Marios

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 42-10 Date gauged 8-2-11  
 Site Down in gutter II Time gauged 9:30  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 111.42 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth Pump Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:34 8-2-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:37	10	83.57	2483	7.21	163.3	8.77
9:40	15	82.49	2414	7.51	151.7	8.32
9:43	20	82.27	2425	7.54	134.7	8.25

Actual purge volume 25 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 9:48 8-2-11 Purged/sampled by Majors

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 42-11 Date gauged 8-2-11  
 Site Dominquez II Time gauged 8:30  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 121.96 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth Pump Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 8:36 8-2-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:38	10	82.65	2054	8.27	203.0	7.41
8:41	15	82.11	2007	8.31	200.9	8.32
8:44	20	82.17	2024	8.0824	201.3	8.63

Actual purge volume 23 gal. Field measurements stabilized within ± 10%?

Time/date sampled 8:47 8-2-11 Purged/sampled by Meinos

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 42-12 Date gauged 8-2-11  
 Site Poisinquez II Time gauged 9:00  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 129.19 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth Pump Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:06 8-2-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:09	10	83.19	2260	7.09	172.0	6.93
9:13	15	84.39	2273	7.25	137.6	6.52
9:16	20	84.56	2347	7.25	133.2	6.72

Actual purge volume 25 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 9:20 8-2-11 Purged/sampled by Meines

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 42-13 Date gauged 8-2-11  
 Site Dominguez Time gauged 11:31  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 53.88 Feet Height of fluid column \_\_\_\_\_ Feet  
 Total depth pump Feet Volume in well \_\_\_\_\_ Gallons

(3 well volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 11:53 8-2-11 Purge Method \_\_\_\_\_

Time	Purge Volume (gal)	Temp (C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>12:01</u>	<u>6</u>	<u>75.20</u>	<u>5999</u>	<u>7.19</u>	<u>120.7</u>	<u>0.41</u>
<u>12:04</u>	<u>10</u>	<u>76.19</u>	<u>5700</u>	<u>6.99</u>	<u>100.0</u>	<u>3.89</u>
<u>12:10</u>	<u>15</u>	<u>76.00</u>	<u>5561</u>	<u>7.31</u>	<u>117.4</u>	<u>4.15</u>

Actual purge volume 18 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 12:13 8-2-11 Purged/sampled by Armas

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-01 Date gauged 8-2-11  
 Site Gonzales Time gauged 14:38  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 13.81 Feet Height of fluid column 11.81 Feet  
 Total depth 25.62 Feet Volume in well 7.8 Gallons  
 (3 well volumes = ~~23.5~~ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 14:30 Purge Method Boiler

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<del>14:47</del>	<u>15</u>	<u>71.11</u>	<u>5911</u>	<u>7.36</u>	<u>173.1</u>	<u>7.90</u>
<u>15:03</u>	<u>20</u>	<u>69.72</u>	<u>5637</u>	<u>7.79</u>	<u>135.0</u>	<u>8.35</u>
<u>15:10</u>	<u>23</u>	<u>69.84</u>	<u>5777</u>	<u>7.62</u>	<u>113.2</u>	<u>8.63</u>
<u>15:14</u>	<u>25</u>	<u>70.21</u>	<u>5742</u>	<u>7.58</u>	<u>93.6</u>	<u>7.90</u>

Actual purge volume 25 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_  
 Time/date sampled 15:19 8-2-11 Purged/sampled by Meinus  
 Sample method Boiler  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-03 Date gauged 8/2/11  
 Site Gonzalez Dairy Time gauged 10:08  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 17.24 Feet Height of fluid column 30.38 Feet  
 Total depth 47.62 Feet Volume in well 20.05 Gallons

(3 well volumes = 60.15 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:20 8/2/11 Purge Method Redi Flow Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:32	20	28.8	2884	7.40	152	2086
10:49	40	27.8	2861	7.45	174	2051
11:12	60	27.4	2815	7.38	178	1988

Actual purge volume 60 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 11:15 8/2/11 Purged/sampled by Jerry Slawson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-04 Date gauged 8/2/11  
 Site Gonzalez Drilling Time gauged 11:35  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 21.29 Feet Height of fluid column 25.27 Feet  
 Total depth 46.56 Feet Volume in well 16.67 Gallons  
 (3 well volumes = 50.03 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 13:25 8/2/11 Purge Method Fultz Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>12:29</u>	<u>5</u>	<u>27.9</u>	<u>5794</u>	<u>7.47</u>	<u>165</u>	<u>4493</u>
<u>13:52</u>	<u>20</u>	<u>28.3</u>	<u>5884</u>	<u>7.46</u>	<u>167</u>	<u>4562</u>
<u>14:28</u>	<u>35</u>	<u>26.6</u>	<u>5862</u>	<u>7.18</u>	<u>178</u>	<u>4565</u>
<u>14:48</u>	<u>50</u>	<u>27.0</u>	<u>5861</u>	<u>7.30</u>	<u>183</u>	<u>4568</u>
<u>15:10</u>	<u>50</u>	<u>28.4</u>	<u>5855</u>	<u>7.32</u>	<u>166</u>	<u>4599</u>

Actual purge volume 50 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_  
 Time/date sampled 15:15 8/2/11 Purged/sampled by Jerry Slawson  
 Sample method \_\_\_\_\_  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-05 Date gauged 8/2/11  
 Site Gonzalez Dairy Time gauged 9:01  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 34.67 Feet Height of fluid column 14.63 Feet  
 Total depth 49.30 Feet Volume in well 9.65 Gallons

(3 well volumes = 29.0 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:18 8/2/11 Purge Method Redi Flow Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:21	10	25.4	5686	7.62	70	4418
9:33	20	24.6	5680	7.49	79	4409
9:47	30	24.3	5676	7.43	83	4398

Actual purge volume 30 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 9:50 8/2/11 Purged/sampled by Jerry Slawson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-06 Date gauged 8/2/11  
 Site Gonzalez Dairy Time gauged 8:10  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 50.72 Feet Height of fluid column 1.03 Feet  
 Total depth 51.75 Feet Volume in well .67 Gallons

(3 well volumes = 2.03 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged \_\_\_\_\_ Purge Method \_\_\_\_\_

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume 1/2 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 8:43 8/2/11 Purged/sampled by JERRY STANSON

Sample method Boiler

Requested analyses \_\_\_\_\_

Comments/observations After Gauging not enough water in well to Purge, removed just over 1/2 Gallon & sampled.

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft





**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-02 Date gauged 8-3-11  
 Site Conzalez Time gauged 8:03  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 14.51 Feet Height of fluid column 11.32 Feet  
 Total depth 25.83 Feet Volume in well 7.47 Gallons  
 (3 well volumes = 22.4 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 8:07 Purge Method Boiler

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:17	10	69.38	5357	7.18	198.2	4.80
8:23	15	68.17	5222	7.28	188.5	6.97
8:31	21	68.63	5240	7.16	144.5	7.14
8:34	23	67.80	5178	7.29	148.6	7.31

Actual purge volume 23 gal. Field measurements stabilized within ± 10%?

Time/date sampled 8:39 8-3-11 Purged/sampled by Alquis

Sample method Boiler

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-03 Date gauged 8/2/11  
 Site Gonzalez Dairy Time gauged 10:08  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 17.24 Feet Height of fluid column 30.38 Feet  
 Total depth 47.62 Feet Volume in well 20.05 Gallons  
 (3 well volumes = 60.15 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:20 8/2/11 Purge Method Redi Flow Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:32	20	28.8	2884	7.40	152	2086
10:49	40	27.8	2861	7.45	174	2051
11:12	60	27.4	2815	7.38	178	1988

Actual purge volume 60 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 11:15 8/2/11 Purged/sampled by Jerry Slawson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-04 Date gauged 8/2/11  
 Site Gonzalez Drilling Time gauged 11:35  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 21.29 Feet Height of fluid column 25.27 Feet  
 Total depth 46.56 Feet Volume in well 16.67 Gallons  
 (3 well volumes = 50.03 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 13:25 8/2/11 Purge Method Fultz Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>12:29</u>	<u>5</u>	<u>27.9</u>	<u>5794</u>	<u>7.47</u>	<u>165</u>	<u>4493</u>
<u>13:52</u>	<u>20</u>	<u>28.3</u>	<u>5884</u>	<u>7.46</u>	<u>167</u>	<u>4562</u>
<u>14:28</u>	<u>35</u>	<u>26.6</u>	<u>5862</u>	<u>7.18</u>	<u>178</u>	<u>4565</u>
<u>14:48</u>	<u>50</u>	<u>27.0</u>	<u>5861</u>	<u>7.30</u>	<u>183</u>	<u>4568</u>
<u>15:10</u>	<u>50</u>	<u>28.4</u>	<u>5855</u>	<u>7.32</u>	<u>166</u>	<u>4599</u>

Actual purge volume 50 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_  
 Time/date sampled 15:15 8/2/11 Purged/sampled by Jerry Slawson  
 Sample method \_\_\_\_\_  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-05 Date gauged 8/2/11  
 Site Gonzalez Dairy Time gauged 9:01  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 34.67 Feet Height of fluid column 14.63 Feet  
 Total depth 49.30 Feet Volume in well 9.65 Gallons

(3 well volumes = 29.0 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:18 8/2/11 Purge Method Redi Flow Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:21	10	25.4	5686	7.62	70	4418
9:33	20	24.6	5680	7.49	79	4409
9:47	30	24.3	5676	7.43	83	4398

Actual purge volume 30 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 9:50 8/2/11 Purged/sampled by Jerry Slawson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-06 Date gauged 8/2/11  
 Site Gonzalez Dairy Time gauged 8:10  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 50.72 Feet Height of fluid column 1.03 Feet  
 Total depth 51.75 Feet Volume in well .67 Gallons

(3 well volumes = 2.03 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged \_\_\_\_\_ Purge Method \_\_\_\_\_

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume 1/2 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 8:43 8/2/11 Purged/sampled by JERRY STANSON

Sample method Boiler

Requested analyses \_\_\_\_\_

Comments/observations AFTER GAUGING NOT ENOUGH WATER IN WELL TO PURGE. REMOVED JUST OVER 1/2 GALLON & SAMPLED.

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 177-07R Date gauged 8/3/11  
 Site Gonzalez Dairy Time gauged 8:08  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 42.30 Feet Height of fluid column 14.07 Feet  
 Total depth 56.37 Feet Volume in well 9.28 Gallons

(3 well volumes = 27.85 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 8:30 8/3/11 Purge Method Fultz pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<sup>TDS</sup> DO (mg/L)
<u>8:35</u>	<u>9</u>	<u>26.3</u>	<u>5325</u>	<u>7.65</u>	<u>137</u>	<u>4122</u>
<u>8:56</u>	<u>18</u>	<u>24.1</u>	<u>5421</u>	<u>7.62</u>	<u>160</u>	<u>4273</u>
<u>9:22</u>	<u>27</u>	<u>25.7</u>	<u>5489</u>	<u>7.59</u>	<u>183</u>	<u>4269</u>

Actual purge volume 28 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 9:25 8/3/11 Purged/sampled by JERRY STANSON

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 70-1 Date gauged 8-3-11  
 Site Mountain View Time gauged 13:45  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 31.95 Feet Height of fluid column 13.68 Feet  
 Total depth 45.63 Feet Volume in well 9.02 Gallons  
 (3 well volumes = 27 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged <sup>13</sup> 13:53 8-3-11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>14:08</u>	<u>10</u>	<u>73.27</u>	<u>4140</u>	<u>6.99</u>	<u>210.3</u>	<u>2.90</u>
<u>14:20</u>	<u>20</u>	<u>73.72</u>	<u>4180</u>	<u>6.92</u>	<u>74.0</u>	<u>1.40</u>
<u>14:27</u>	<u>25</u>	<u>73.16</u>	<u>4159</u>	<u>6.89</u>	<u>48.8</u>	<u>0.99</u>
<u>14:30</u>	<u>27</u>	<u>73.33</u>	<u>4166</u>	<u>7.01</u>	<u>43.0</u>	<u>1.01</u>

Actual purge volume 28 gal. Field measurements stabilized within ± 10%?

Time/date sampled 14:33 8-3-11 Purged/sampled by Meinas

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 70-02 Date gauged 8/4/11  
 Site Mountain View Dairy Time gauged 7:45  
 Depth to PSH \_\_\_\_\_ Feet Well diameter \_\_\_\_\_ Inches  
 Depth to water 41.87 Feet Height of fluid column 7.92 Feet  
 Total depth 49.79 Feet Volume in well 5.22 Gallons

(3 well volumes = 15.68 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7:59 / 8/4/11 Purge Method Reel Flow Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
806	5	24.0	5256	7.93	22	4075
812	10	24.1	5188	7.71	29	3995
820	15	24.1	5179	7.67	31	3987

Actual purge volume 15 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 8:25 8/4/11 Purged/sampled by Jerry Stawson

Sample method \_\_\_\_\_  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 70-03 Date gauged 8/3/11  
 Site Mountain View Time gauged \_\_\_\_\_  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 51.19 Feet Height of fluid column 13.79 Feet  
 Total depth 64.98 Feet Volume in well 9.10 Gallons

(3 well volumes = 27.30 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 14:05 8/3/11 Purge Method Redi Flow Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:10	5	27.8	11.83	8.22	-44	9.903
14:15	10	26.2	11.90	7.07	50	10.05
14:20	15	25.3	11.90	7.08	17	10.07
14:25	20	24.8	11.86	7.11	-73	10.04
14:30	25	24.7	11.89	7.10	-68	10.10
14:35	30	25.1	11.85	7.16	-71	10.07

Actual purge volume 30 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 14:38 8/3/11 Purged/sampled by Jeany Slawson

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-01A Date gauged 7/25/11  
 Site River Valley Time gauged 13:24  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 16.63 Feet Height of fluid column 9.49 Feet  
 Total depth 26.12 Feet Volume in well 1.6 Gallons  
 (3 well volumes = 4.8 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged \_\_\_\_\_ Purge Method \_\_\_\_\_

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
2:15	2.2	24.5	53 <del>45</del> 45	7.8	84	4130
2:25	4.4	22.5	5370	7.6	92	4192
2:35	6.6	21.5	5395	7.4	94	4220
2:40	6.8	21.0	5400	7.2	96	4225

Actual purge volume 6.8 gal. Field measurements stabilized within ± 10%?   
 Time/date sampled 7/25/2011 Purged/sampled by M. M. Mow  
 Sample method Boxy  
 Requested analyses \_\_\_\_\_  
 Comments/observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft



**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-03 Date gauged 7/25/01  
 Site River Valley Time gauged 1356  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4 Inches  
 Depth to water 23.60 Feet Height of fluid column 17.51 Feet  
 Total depth 41.1 Feet Volume in well 11.55 Gallons

(3 well volumes = 34.66 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 14:19 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:25	10	74.93	3360	7.30	208	7.41
14:34	20	74.37	3289	7.36	173.5	5.68
14:43	30	74.44	3302	7.60	122.3	5.80
14:46	35	74.30	3301	7.50	120.2	5.53

Actual purge volume 35 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7/25/01 14:50 Purged/sampled by M. Davis

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-04 Date gauged 7/25/11  
 Site River valley Time gauged 13:38  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 24.74 Feet Height of fluid column 3.11 Feet  
 Total depth 27.85 Feet Volume in well 0.52 Gallons

(3 well volumes = 1.6 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7/25/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:43	0.5	75.54	8383	7.65	207.5	6.37
14:04	1.0	73.75	7155	7.75	183.0	4.35
7/26/11 8:36	1.3	72.01	5810	7.77	265.4	6.82

Actual purge volume 1.5 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 8:46 7/26/11 Purged/sampled by Meiners

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations 7/25/11 bailed well dry. After 90 min not enough water for sample.

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-05 Date gauged 7/26/11  
 Site River Valley Time gauged 10:00  
 Depth to PSH \_\_\_\_\_ Feet Well diameter ~~10.0~~ 4 Inches  
 Depth to water 14.19 Feet Height of fluid column ~~14.19~~ 8.72 Feet  
 Total depth 22.91 Feet Volume in well 1.48 Gallons  
 (3 well volumes = 4.5 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 10:00 7/26/11 Purge Method \_\_\_\_\_

Time	Purge Volume (gal)	Temp (C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:05	2.0	20.5	4870	8.0	90	3747
10:10	2.0	20.3	4730	7.8	135	3650
10:13	.5	19.5	4770	7.7	145	3700

Actual purge volume 4.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 10:25 7/26/2011 Purged/sampled by M. Menn

Sample method \_\_\_\_\_

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-06 Date gauged 7/29/14  
 Site River Valley Time gauged 15:40  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 28.88 Feet Height of fluid column 7.41 Feet  
 Total depth 36.29 Feet Volume in well 4.89 Gallons

(3 well volumes = 14.67 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged \_\_\_\_\_ Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
15:47	5	75.49	4111	7.41	282.5	7.72
15:54	10	74.08	4025	<del>7.32</del>	244.9	6.50
16:01	15	74.11	4020	7.32	238.1	6.43

Actual purge volume 15 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 16:05 7 Purged/sampled by Plinius

Sample method Pump

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167.07  
~~3807.02~~

Date gauged 2/25/2011

Site River Valley

Time gauged 1:00 P.M.

Depth to PSH \_\_\_\_\_ Feet

Well diameter 2 Inches

Depth to water 15.39 Feet

Height of fluid column 117.8 Feet

Total depth ~~140~~ 27.09 Feet

Volume in well ~~300~~ 2.0 Gallons

(3 well volumes = 6.0 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 1:10 7/25/11

Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1:25	2	26.5	3150	7.5	23	2317
1:30	4	22.5	3055	8.0	53	2264
1:35	6	23.0	3085	8.0	55	2285
<del>1:40</del> 1:37	7	22.5	3037	7.9	64	2250

Actual purge volume 7 gal.

Field measurements stabilized within ± 10%?

Time/date sampled 1:40 P.M. 7/25/2011

Purged/sampled by Nike Moore

Sample method ~~Boiler~~ Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft





**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-09 Date gauged 7/26/11  
 Site River Valley Time gauged 8:12  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 13.41 Feet Height of fluid column 3.67 Feet  
 Total depth 17.08 Feet Volume in well 0.62 Gallons

(3 well volumes = 2 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged \_\_\_\_\_ Purge Method \_\_\_\_\_

Time	Purge Volume (gal)	Temp (C)	SpC (us/cm)	pH	ORP (mV)	TDS
						DO (mg/L)
8:25	1/2	19.0	4687	8.10	137	3620
8:30	1	18.5	4742	7.60	134	3674
8:35	1 1/2	18.1	4674	7.60	131	3625
8:37	2	18.0	4775	7.45	143	3705

Actual purge volume 2 gal. Field measurements stabilized within ± 10%?

Time/date sampled 8:40 7/26/2011 Purged/sampled by Mike Don

Sample method Dog

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 257-01 Date gauged 7/22/11  
 Site Sunset Time gauged 10:10  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 18.23 Feet Height of fluid column 9.01 Feet  
 Total depth 26.24 Feet Volume in well 1.4 Gallons

(3 well volumes = 4 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7/22/11 10:12 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>10:17</u>	<u>1</u>	<u>69.17</u>	<u>4963</u>	<u>7.40</u>	<u>291.1</u>	<u>39.83</u>
	<u>3</u>	<u>68.80</u>	<u>4872</u>	<u>7.65</u>	<u>261.3</u>	<u>17.65</u>
<u>10:24</u>	<u>4</u>	<u>68.82</u>	<u>4867</u>	<u>7.56</u>	<u>201.4</u>	<u>8.56</u>

Actual purge volume 4 gal. Field measurements stabilized within ± 10%?

Time/date sampled 10:26 7/22/11 Purged/sampled by Heiaus

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 257-02 Date gauged 7/22/11  
 Site Sunset Time gauged 9:35  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 2 Inches  
 Depth to water 12.72 Feet Height of fluid column 10.34 Feet  
 Total depth 23.06 Feet Volume in well 1.7 Gallons

(3 well volumes = 5.3 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 9:47 7/22/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>9:47</u>	<u>2</u>	<u>68.08</u>	<u>3040</u>	<u>7.27</u>	<u>217</u>	<u>37.02</u>
	<u>4</u>	<u>67.79</u>	<u>3020</u>		<u>287.1</u>	<u>15.11</u>
<u>9:55</u>	<u>5</u>	<u>67.68</u>	<u>3025</u>	<u>7.20</u>	<u>289.2</u>	<u>14.93</u>

Actual purge volume 5.5 gal. Field measurements stabilized within ± 10%?   

Time/date sampled 10:00 7/27/11 Purged/sampled by Heinuz

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 257-03 Date gauged 7.22.11  
 Site SUBSIST / DESERT LAND Time gauged 1009  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4" 2" Inches  
 Depth to water 8.41 Feet Height of fluid column 5.57 Feet  
 Total depth 13.98 Feet Volume in well 0.95 Gallons  
 (3 well volumes = 2.85 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7.22.11 1017 Purge Method BAUER

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1017	1	21.4	3843	7.30	110	2884
1020	2	20.1	3780	7.19	115	2860
1023	3	20.1	3751	7.27	137	2847

Actual purge volume 3 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7.22.11 1025 Purged/sampled by David Tarango

Sample method BAUER

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM**

**FLUID LEVEL DATA**

Well ID 257/260-01 Date gauged 7-22-11  
 Site Sunset/Desert Land Time gauged 0908  
 Depth to PSH \_\_\_\_\_ Feet Well diameter 4. Inches  
 Depth to water 11.34 Feet Height of fluid column 9.19 Feet  
 Total depth 20.53 Feet Volume in well 6.07 Gallons  
 (3 well volumes = 18.21 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date purged 7-22-11 0919 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>0919</u>	<u>6</u>	<u>18.4</u>	<u>3528</u>	<u>7.85</u>	<u>-57</u>	<u>2496</u>
<u>0927</u>	<u>12</u>	<u>16.4</u>	<u>3286</u>	<u>7.27</u>	<u>-43</u>	<u>2487</u>
<u>0935</u>	<u>18</u>	<u>16.8</u>	<u>3289</u>	<u>7.21</u>	<u>-13</u>	<u>2483</u>

Actual purge volume 18.5 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 7-22-11 0939 Purged/sampled by David Tarango

Sample method Bailer

Requested analyses \_\_\_\_\_

Comments/observations \_\_\_\_\_

**Well Casing Volumes**  
 2" diameter = 0.17 gal/ft, 4" diameter = 0.66 gal/ft, 5" diameter = 1.02 gal/ft, 6" diameter = 1.50 gal/ft

**APPENDIX B**  
**ANALYTICAL LABORATORY REPORTS**  
**(Electronic Format – CD)**



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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

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Buena Vista Dairy #2  
16910 Stern Drive  
P.O. Box 346  
Mesquite, NM, 88048

Report Date: August 9, 2011

Work Order: 11072937



DP: 74  
Project Location: 16910 Stern Drive, Mesquite, NM  
Project Name: Buena Vista Dairy #2

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273159	74-2	water	2011-07-29	15:40	2011-07-29
273160	74-4	water	2011-07-29	15:05	2011-07-29
273161	74-5	water	2011-07-29	13:57	2011-07-29

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2011-07-29 and assigned to work order 11072937. Samples for work order 11072937 were received intact at a temperature of 0.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	70913	2011-08-01 at 21:36	83488	2011-08-01 at 21:36
NO3 (IC)	E 300.0	70913	2011-08-01 at 21:36	83488	2011-08-01 at 21:36
TDS	SM 2540C	70984	2011-08-03 at 15:28	83573	2011-08-03 at 15:28
TKN	E 351.3	71029	2011-08-05 at 15:52	83637	2011-08-05 at 15:54

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11072937 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 273159 - 74-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83488 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70913 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	<b>630</b>	<b>630</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273159 - 74-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83488 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70913 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>52.8</b>	<b>52.8</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273159 - 74-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83573 Date Analyzed: 2011-08-03 Analyzed By: MD  
 Prep Batch: 70984 Sample Preparation: 2011-08-03 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2710</b>	<b>2710</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273159 - 74-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83637 Date Analyzed: 2011-08-05 Analyzed By: AH  
 Prep Batch: 71029 Sample Preparation: 2011-08-05 Prepared By: AH

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.24</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273160 - 74-4**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83488      Date Analyzed: 2011-08-01      Analyzed By: JR  
 Prep Batch: 70913      Sample Preparation: 2011-08-01      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	<b>438</b>	<b>438</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273160 - 74-4**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83488      Date Analyzed: 2011-08-01      Analyzed By: JR  
 Prep Batch: 70913      Sample Preparation: 2011-08-01      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>15.3</b>	<b>15.3</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273160 - 74-4**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 83573      Date Analyzed: 2011-08-03      Analyzed By: MD  
 Prep Batch: 70984      Sample Preparation: 2011-08-03      Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>1580</b>	<b>1580</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273160 - 74-4**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83637 Date Analyzed: 2011-08-05 Analyzed By: AH  
 Prep Batch: 71029 Sample Preparation: 2011-08-05 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273161 - 74-5**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83488 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70913 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	<b>449</b>	<b>449</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273161 - 74-5**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83488 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70913 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>23.3</b>	<b>23.3</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273161 - 74-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83573 Date Analyzed: 2011-08-03 Analyzed By: MD  
 Prep Batch: 70984 Sample Preparation: 2011-08-03 Prepared By: MD

*continued . . .*

sample 273161 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2000</b>	<b>2000</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273161 - 74-5**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 83637  
Prep Batch: 71029

Analytical Method: E 351.3  
Date Analyzed: 2011-08-05  
Sample Preparation: 2011-08-05

Prep Method: N/A  
Analyzed By: AH  
Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83488  
Prep Batch: 70913Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83488  
Prep Batch: 70913Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 83573  
Prep Batch: 70984Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83637  
Prep Batch: 71029Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05Analyzed By: AH  
Prepared By: AH

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

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**Duplicate (1)** Duplicated Sample: 273164

QC Batch: 83573  
Prep Batch: 70984

Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03

Analyzed By: MD  
Prepared By: MD

---

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1860	1960	mg/L	1	5	10

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83488  
Prep Batch: 70913Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.5	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83488  
Prep Batch: 70913Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.86	mg/L	1	5.00	<0.100	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.85	mg/L	1	5.00	<0.100	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83573  
Prep Batch: 70984Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	981	mg/L	1	1000	<5.00	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1020	mg/L	1	1000	<5.00	102	90 - 110	4	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 83637  
Prep Batch: 71029

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	52.5	mg/L	1	50.0	<2.17	105	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	50.7	mg/L	1	50.0	<2.17	101	68.6 - 108	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Matrix Spike (MS-1) Spiked Sample: 273152

QC Batch: 83488  
Prep Batch: 70913

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride	Qs	1	3270	mg/L	55.6	1390	1720	112	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride	Qs	1	3260	mg/L	55.6	1390	1720	111	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Matrix Spike (MS-1) Spiked Sample: 273152

QC Batch: 83488  
Prep Batch: 70913

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	274	mg/L	55.6	278	<5.56	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Nitrate-N		1	271	mg/L	55.6	278	<5.56	97	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273318

QC Batch: 83637  
Prep Batch: 71029

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	277	mg/L	1	50.0	225	104	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	270	mg/L	1	50.0	225	90	53.2 - 117	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 83488

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2011-08-01

### Standard (CCV-1)

QC Batch: 83488

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2011-08-01

### Standard (CCV-2)

QC Batch: 83488

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-08-01

### Standard (CCV-2)

QC Batch: 83488

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2011-08-01



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# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

11072937

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# TraceAnalysis, Inc.

155 McCutcheon, Ste. H  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name:

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:

Victor Ayala

Invoice to (if different from above):

Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048

Project #:

Project Name:

Buena Vista Dairy #2

Sampler Signature: *[Signature]*

Project Location (including state):

Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		TIME	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE			DATE
74-1		1	500ml	X				X								
74-1		1	500ml	X				X								
74-2		1	500ml	X				X					7/29/11	15:40		
74-2		1	500ml	X				X					7/29/11	15:40		
74-3		1	500ml	X				X								
74-3		1	500ml	X				X								
74-4		1	500ml	X				X					7/29/11	15:05		
74-4		1	500ml	X				X								
74-5	74-5	1	500ml	X				X						15:05		
74-5	74-5	1	500ml	X				X						13:57		
74-6	74-6	1	500ml	X				X						7/29/11	13:57	
74-6	74-6	1	500ml	X				X						7/29/11	13:57	
74-6	74-6	1	500ml	X				X						7/29/11	13:57	
74-6	74-6	1	500ml	X				X						7/29/11	13:57	

### ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates/Nitrite EPA 8230 modified 300	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X

Relinquished By: *[Signature]* Date: 7/29/11 Time: 16:40

Received By: *[Signature]* Date: 7/29/11 Time: 16:40

Relinquished By: *[Signature]* Date: 8/28/11 Time: 16:30

Received By: *[Signature]* Date: 8/28/11 Time: 16:30

Lab Use Only  
 Intact  Y  N  
 Headspace Y  N  
 Temp 0.1/0.0/0.0  
 Log-in Review *[Signature]*

Remarks: TDS, NO<sub>3</sub>, C (in EP)  
 EL3 in Temp: 12.3.2/13.1  
 Dry Weight Basis Required  
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

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17800 Stern Drive  
P.O. Box 10  
Mesquite, NM, 88048

Report Date: August 9, 2011

Work Order: 11072209



DP: 833  
Project Name: 17800 Stern Drive, Mesquite, NM  
Project Number: Big Sky Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
272498	833-2	water	2011-07-21	13:12	2011-07-21
272499	833-4	water	2011-07-21	12:06	2011-07-21
272500	833-5	water	2011-07-21	11:24	2011-07-21
272501	833-6	water	2011-07-21	10:05	2011-07-21
272502	833-7	water	2011-07-21	12:40	2011-07-21
272503	833-8	water	2011-07-21	14:27	2011-07-21
272504	833-9	water	2011-07-21	15:27	2011-07-21
272505	833-10	water	2011-07-21	14:28	2011-07-21
272506	Lagoon	water	2011-07-21	11:20	2011-07-21

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*



*Michael Abel*

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Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project 17800 Stern Drive, Mesquite, NM were received by TraceAnalysis, Inc. on 2011-07-21 and assigned to work order 11072209. Samples for work order 11072209 were received intact at a temperature of 1.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71083	2011-07-22 at 14:00	83690	2011-07-22 at 14:00
Chloride (IC)	E 300.0	71084	2011-07-22 at 18:40	83691	2011-07-22 at 18:40
Chloride (IC)	E 300.0	71085	2011-07-22 at 23:19	83692	2011-07-22 at 23:19
NO3 (IC)	E 300.0	71083	2011-07-22 at 14:00	83690	2011-07-22 at 14:00
NO3 (IC)	E 300.0	71084	2011-07-22 at 18:40	83691	2011-07-22 at 18:40
NO3 (IC)	E 300.0	71085	2011-07-22 at 23:19	83692	2011-07-22 at 23:19
TDS	SM 2540C	70783	2011-07-27 at 12:30	83340	2011-07-27 at 12:30
TKN	E 351.3	70787	2011-07-28 at 10:49	83399	2011-07-28 at 12:57

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11072209 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

## Sample: 272498 - 833-2

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83690                              Date Analyzed: 2011-07-22                      Analyzed By: JR  
 Prep Batch: 71083                              Sample Preparation: 2011-07-22                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>880</b>	<b>880</b>	<25.0	mg/L	50	25.0	2.5	0.5

## Sample: 272498 - 833-2

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 83690                              Date Analyzed: 2011-07-22                              Analyzed By: JR  
 Prep Batch: 71083                              Sample Preparation: 2011-07-22                              Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>91.6</b>	<b>91.6</b>	<1.00	mg/L	10	1.00	0.5	0.1

## Sample: 272498 - 833-2

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 83340                              Date Analyzed: 2011-07-27                              Analyzed By: MD  
 Prep Batch: 70783                              Sample Preparation: 2011-07-27                              Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3510</b>	<b>3510</b>	<5.00	mg/L	1	5.00	5	5

## Sample: 272498 - 833-2

Laboratory: Lubbock  
 Analysis: TKN                                      Analytical Method: E 351.3                              Prep Method: N/A  
 QC Batch: 83399                              Date Analyzed: 2011-07-28                              Analyzed By: AH  
 Prep Batch: 70787                              Sample Preparation: 2011-07-28                              Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.08</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272499 - 833-4**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83690                              Date Analyzed: 2011-07-22                      Analyzed By: JR  
 Prep Batch: 71083                              Sample Preparation: 2011-07-22                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>883</b>	<b>883</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272499 - 833-4**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 83690                              Date Analyzed: 2011-07-22                              Analyzed By: JR  
 Prep Batch: 71083                              Sample Preparation: 2011-07-22                              Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>45.3</b>	<b>45.3</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272499 - 833-4**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 83340                              Date Analyzed: 2011-07-27                              Analyzed By: MD  
 Prep Batch: 70783                              Sample Preparation: 2011-07-27                              Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3410</b>	<b>3410</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272499 - 833-4**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.52</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272500 - 833-5**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83690 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71083 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1210</b>	<b>1210</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272500 - 833-5**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83690 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71083 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>12.0</b>	<b>12.0</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272500 - 833-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83340 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

*continued . . .*

sample 272500 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3180</b>	<b>3180</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272500 - 833-5**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.66</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272501 - 833-6**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83690 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71083 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>682</b>	<b>682</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272501 - 833-6**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71084 Sample Preparation: 2011-07-22 Prepared By: JR



Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>70.1</b>	<b>70.1</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272501 - 833-6**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83340 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2650</b>	<b>2650</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272501 - 833-6**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>7.70</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272502 - 833-7**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71084 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J	1	<b>115</b>	<125	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272502 - 833-7**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71084 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	105	105	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272502 - 833-7**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83340 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	4090	4090	<5.00	mg/L	1	5.00	5	5

**Sample: 272502 - 833-7**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272503 - 833-8**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71084 Sample Preparation: 2011-07-22 Prepared By: JR

*continued ...*



sample 272503 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>963</b>	<b>963</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272503 - 833-8**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71084 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>68.8</b>	<b>68.8</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272503 - 833-8**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83340 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3240</b>	<b>3240</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272503 - 833-8**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272504 - 833-9**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71084 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1070</b>	<b>1070</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272504 - 833-9**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71084 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>135</b>	<b>135</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272504 - 833-9**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83340 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4550</b>	<b>4550</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272504 - 833-9**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

*continued ...*



sample 272504 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272505 - 833-10**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83692                              Date Analyzed: 2011-07-22                      Analyzed By: JR  
 Prep Batch: 71085                              Sample Preparation: 2011-07-22                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>597</b>	<b>597</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272505 - 833-10**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83692                              Date Analyzed: 2011-07-22                      Analyzed By: JR  
 Prep Batch: 71085                              Sample Preparation: 2011-07-22                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>4.63</b>	<b>4.63</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272505 - 833-10**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 83340                              Date Analyzed: 2011-07-27                      Analyzed By: MD  
 Prep Batch: 70783                              Sample Preparation: 2011-07-27                      Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2480</b>	<b>2480</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272505 - 833-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.78</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272506 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83692 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71085 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>648</b>	<b>648</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272506 - Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83692 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71085 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272506 - Lagoon**



Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83340 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3900</b>	<b>3900</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272506 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70787 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>276</b>	<b>276</b>	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83399                      Date Analyzed: 2011-07-28                      Analyzed By: AH  
Prep Batch: 70787                      QC Preparation: 2011-07-28                      Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83690                      Date Analyzed: 2011-07-22                      Analyzed By: JR  
Prep Batch: 71083                      QC Preparation: 2011-07-22                      Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83690                      Date Analyzed: 2011-07-22                      Analyzed By: JR  
Prep Batch: 71083                      QC Preparation: 2011-07-22                      Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 83691                      Date Analyzed: 2011-07-22                      Analyzed By: JR  
Prep Batch: 71084                      QC Preparation: 2011-07-22                      Prepared By: MD



Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

**Method Blank (1)**

QC Batch: 83691                      Date Analyzed: 2011-07-22                      Analyzed By: JR  
Prep Batch: 71084                      QC Preparation: 2011-07-22                      Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

**Method Blank (1)**

QC Batch: 83692                      Date Analyzed: 2011-07-22                      Analyzed By: JR  
Prep Batch: 71085                      QC Preparation: 2011-07-22                      Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

**Method Blank (1)**

QC Batch: 83692                      Date Analyzed: 2011-07-22                      Analyzed By: JR  
Prep Batch: 71085                      QC Preparation: 2011-07-22                      Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

**Duplicate (1)**    Duplicated Sample: 272505

QC Batch: 83340                      Date Analyzed: 2011-07-27                      Analyzed By: MD  
Prep Batch: 70783                      QC Preparation: 2011-07-27                      Prepared By: MD

Report Date: August 9, 2011  
Big Sky Dairy

Work Order: 11072209  
17800 Stern Drive, Mesquite, NM

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2360	2480	mg/L	1	5	10

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83340  
Prep Batch: 70783

Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	927	mg/L	1	1000	<5.00	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	935	mg/L	1	1000	<5.00	94	90 - 110	1	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83399  
Prep Batch: 70787

Date Analyzed: 2011-07-28  
QC Preparation: 2011-07-28

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.6	mg/L	1	50.0	<2.17	79	73.2 - 109

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	47.5	mg/L	1	50.0	<2.17	95	73.2 - 109	18	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83690  
Prep Batch: 71083

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.2	mg/L	1	25.0	<0.500	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	23.0	mg/L	1	25.0	<0.500	92	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83690  
Prep Batch: 71083

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.62	mg/L	1	5.00	<0.100	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.59	mg/L	1	5.00	<0.100	92	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83691  
Prep Batch: 71084

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	23.2	mg/L	1	25.0	<0.500	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	23.2	mg/L	1	25.0	<0.500	93	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83691  
Prep Batch: 71084

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22

Analyzed By: JR  
Prepared By: MD



Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.65	mg/L	1	5.00	<0.100	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.65	mg/L	1	5.00	<0.100	93	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83692  
Prep Batch: 71085

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.0	mg/L	1	25.0	<0.500	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1	23.1	mg/L	1	25.0	<0.500	92	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83692  
Prep Batch: 71085

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.63	mg/L	1	5.00	<0.100	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.64	mg/L	1	5.00	<0.100	93	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272506

QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH  
Prep Batch: 70787 QC Preparation: 2011-07-28 Prepared By: AH

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	322	mg/L	1	50.0	276	92	65.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	320	mg/L	1	50.0	276	88	65.9 - 104	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272500

QC Batch: 83690 Date Analyzed: 2011-07-22 Analyzed By: JR  
Prep Batch: 71083 QC Preparation: 2011-07-22 Prepared By: MD

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2850	mg/L	62.5	1560	1210	105	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2800	mg/L	62.5	1560	1210	102	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272500

QC Batch: 83690 Date Analyzed: 2011-07-22 Analyzed By: JR  
Prep Batch: 71083 QC Preparation: 2011-07-22 Prepared By: MD

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	314	mg/L	62.5	312	12	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	303	mg/L	62.5	312	12	93	90 - 110	4	20



Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272503

QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
Prep Batch: 71084 QC Preparation: 2011-07-22 Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2550	mg/L	62.5	1560	963	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2540	mg/L	62.5	1560	963	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272503

QC Batch: 83691 Date Analyzed: 2011-07-22 Analyzed By: JR  
Prep Batch: 71084 QC Preparation: 2011-07-22 Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	368	mg/L	62.5	312	68.8	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	365	mg/L	62.5	312	68.8	95	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272505

QC Batch: 83692 Date Analyzed: 2011-07-22 Analyzed By: JR  
Prep Batch: 71085 QC Preparation: 2011-07-22 Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2140	mg/L	62.5	1560	597	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2130	mg/L	62.5	1560	597	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272505

QC Batch: 83692  
 Prep Batch: 71085

Date Analyzed: 2011-07-22  
 QC Preparation: 2011-07-22

Analyzed By: JR  
 Prepared By: MD

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	296	mg/L	62.5	312	<6.25	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	295	mg/L	62.5	312	<6.25	93	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



# Calibration Standards

## Standard (ICV-1)

QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.82	96	85 - 115	2011-07-28

## Standard (CCV-1)

QC Batch: 83399 Date Analyzed: 2011-07-28 Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.37	87	85 - 115	2011-07-28

## Standard (CCV-1)

QC Batch: 83690 Date Analyzed: 2011-07-22 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.2	97	90 - 110	2011-07-22

## Standard (CCV-1)

QC Batch: 83690 Date Analyzed: 2011-07-22 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.82	96	90 - 110	2011-07-22







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**Standard (CCV-2)**

QC Batch: 83692

Date Analyzed: 2011-07-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2011-07-22



## Appendix

### Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

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### Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

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### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

# 11072209

6707 Aberdeen, Ste. 9  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

**TraceAnalysis, Inc.**

Phone #: 915-859-8150  
 Cell #:   
 Fax #:   
 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Company Name:   
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person:   
 Victor Ayala

Invoice to (if different from above):  
 Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #:

Project Name:  
 Big Sky Dairy  
 Sampler Signature: *[Signature]*

Project Location (including state):  
 Big Sky Dairy, 17800 Stern Drive, Mesquite, NM

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

LAB Order ID #

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	SAMPLING TIME	Turn Around Time	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE					NONE
833-1		1	500ml	X				X									
833-1		1	500ml	X				X									
833-2		1	500ml	X				X					7-21-11	13:12			
833-2		1	500ml	X				X					7-21-11	13:12			
833-3		1	500ml	X				X									
833-3		1	500ml	X				X					7-21-11	12:06			
833-4		1	500ml	X				X						12:06			
833-4		1	500ml	X				X						11:14			
833-5		1	500ml	X				X						11:24			
833-5		1	500ml	X				X						10:05			
833-6		1	500ml	X				X						10:05			
833-6		1	500ml	X				X						12:40			
833-7		1	500ml	X				X						12:40			
833-7		1	500ml	X				X						14:27			
833-8		1	500ml	X				X						14:27			
833-8		1	500ml	X				X						14:27			

ANALYSIS REQUEST

PAH 8270C  
 TX 1005 Extended (C35)  
 TPH 418.1 / TX1005  
 BTEX 8021B/602  
 MTBE 8021B/602

PAH 8270 (Low Level Analysis)  
 Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7  
 Nitrates/Nitrite EPA 353.5 modified  
 Total Kjeldahl Nitrogen SM 4500 NORG C  
 Chloride EPA 300.0  
 Total Dissolved Solids SM 2540 C MOD

Remarks: *NO3 | NO2 | Cl | TDS dom inf*

Relinquished By: *[Signature]* Date: 7-21-11 Time: 1611  
 Relinquished By: *[Signature]* Date: 7-21-11 Time: 1700

Received By: *[Signature]* Date: 7-21-11 Time: 1611  
 Received at Laboratory By: *[Signature]* Date: 7-21-11 Time: 1611

Lab Use Only  
 Intact Y/N  
 Headspace Y/N  
 Temp Ice *OK*  
 Log-in Review

Dry Weight Basis Required  
 TRRP Report Required

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# 11072209

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

**TraceAnalysis, Inc.**

155 McCutcheon, Ste. H  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Page 1 of 2

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

LAB Order ID # \_\_\_\_\_

**Company Name:** D&H Petroleum & Environmental Services  
**Address:** (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
**Contact Person:** Victor Ayala  
**Phone #:** 915-859-8150  
**Cell #:** \_\_\_\_\_  
**Fax #:** \_\_\_\_\_  
**E-mail:** vayala@dhpump.com

**Project Name:** Big Sky Dairy  
**Project Location (including state):** Big Sky Dairy, 17800 Stern Drive, Mesquite, NM  
**Sampler Signature:** *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH			ICE
833-1		1	500ml	X			X						
833-1		1	500ml	X			X						
272498-1		1	500ml	X			X				7-21-11	13:12	
↓ -2		1	500ml	X			X				7-21-11	13:12	
833-3		1	500ml	X			X						
833-3		1	500ml	X			X				7-21-11	14:06	
833-4		1	500ml	X			X						
↓ -2		1	500ml	X			X						
272500-1		1	500ml	X			X						
↓ -2		1	500ml	X			X						
272501-1		1	500ml	X			X						
↓ -2		1	500ml	X			X						
272502-1		1	500ml	X			X						
↓ -2		1	500ml	X			X						
272503-1		1	500ml	X			X						
↓ -2		1	500ml	X			X						
833-8		1	500ml	X			X						
833-8		1	500ml	X			X						

**Relinquished By:** *[Signature]* Date: 7-21-11 Time: 1611  
**Received By:** *[Signature]* Date: 7-21-11 Time: 1611

**Relinquished By:** *[Signature]* Date: 7/22/11 Time: 1700  
**Received By:** *[Signature]* Date: 7/23/11 Time: 10:30

**Lab Use Only**  
 Intact Y/N  
 Headspace Y/N  
 Temp Ice *[initials]*  
 Log-in Review

**Remarks:** NO<sub>3</sub> / NO<sub>2</sub> / Cl | TDS dom. in R

Dry Weight Basis Required  
 TRRP Report Required

(12)



# 11072209

6701 Aberdeen, Ste. 9 Lubbock, TX 79424  
 Tel (806) 794-1296 Fax (806) 794-1298  
**TraceAnalysis, Inc.**  
 155 McCutcheon, Ste. H El Paso, TX 79932  
 Tel (915) 585-3443 Fax (915) 585-4944

LAB Order ID # \_\_\_\_\_

Company Name: \_\_\_\_\_  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: \_\_\_\_\_  
 Victor Ayala  
 Invoice to (if different from above):  
 Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #: \_\_\_\_\_

Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Project Name: \_\_\_\_\_  
 Big Sky Dairy  
 Sampler Signature: \_\_\_\_\_

Project Location (including state):  
 Big Sky Dairy, 17800 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				DATE	SAMPLING TIME		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>			NaOH	ICE
272504-1	833-9	1	500ml	X						X			7-21-11	15:27
↓ -2	833-9	1	500ml	X						X				15:27
272505-1	833-10	1	500ml	X						X				14:28
↓ -2	833-10	1	500ml	X						X				14:28
272506-1	Lagoon	1	500ml	X						X				11:20
↓ -2	Lagoon	1	500ml	X						X				11:20

ANALYSIS REQUEST	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	Nitrates/Nitrite EPA 353.5 modified	Total Kjeldahl Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Turn Around Time	Hold
								X	X	X	X		
								X	X	X	X		
								X	X	X	X		
								X	X	X	X		
								X	X	X	X		
								X	X	X	X		

Remarks: \_\_\_\_\_  
 No<sub>3</sub>, No<sub>2</sub>, Cl, TDS done in EP  
 Dry Weight Basis Required  
 TRRP Report Required

Lab Use Only  
 Intact Y/N  
 Headspace Y/N  
 Temp Ice Y/N  
 Log-in Review

Relinquished By: \_\_\_\_\_ Date: 7-21-11 Time: 16:11  
 Received By: \_\_\_\_\_ Date: 7/21/11 Time: 16:11  
 Relinquished By: \_\_\_\_\_ Date: 7/21/11 Time: 17:00  
 Received at Laboratory By: \_\_\_\_\_ Date: 7/21/11 Time: 10:50

6



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
 E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Michael Weatherly  
 Buena Vista Dairy #2  
 16910 Stern Drive  
 P.O. Box 346  
 Mesquite, NM, 88048

Report Date: August 9, 2011

Work Order: 11080126



DP: 74  
 Project Location: 16910 Stern Drive, Mesquite, NM  
 Project Name: Buena Vista Dairy #2

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273319	74-1	water	2011-08-01	12:35	2011-08-01
273320	74-3	water	2011-08-01	14:45	2011-08-01
273321	74- Lagoon	water	2011-08-01	12:55	2011-08-01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
 Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2011-08-01 and assigned to work order 11080126. Samples for work order 11080126 were received intact at a temperature of 0.3 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	70952	2011-08-03 at 01:05	83530	2011-08-03 at 01:05
NO3 (IC)	E 300.0	70952	2011-08-03 at 01:05	83530	2011-08-03 at 01:05
TDS	SM 2540C	70984	2011-08-03 at 15:28	83574	2011-08-03 at 15:28
TDS	SM 2540C	71070	2011-08-05 at 15:52	83674	2011-08-05 at 15:52
TKN	E 351.3	71030	2011-08-05 at 15:53	83636	2011-08-05 at 15:53

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080126 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

**Sample: 273319 - 74-1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83530 Date Analyzed: 2011-08-03 Analyzed By: JR  
 Prep Batch: 70952 Sample Preparation: 2011-08-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>770</b>	<b>770</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273319 - 74-1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83530 Date Analyzed: 2011-08-03 Analyzed By: JR  
 Prep Batch: 70952 Sample Preparation: 2011-08-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>73.2</b>	<b>73.2</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273319 - 74-1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83574 Date Analyzed: 2011-08-03 Analyzed By: MD  
 Prep Batch: 70984 Sample Preparation: 2011-08-03 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3040</b>	<b>3040</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273319 - 74-1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83636 Date Analyzed: 2011-08-05 Analyzed By: AH  
 Prep Batch: 71030 Sample Preparation: 2011-08-05 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	Qs,U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273320 - 74-3**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83530                                  Date Analyzed: 2011-08-03                      Analyzed By: JR  
 Prep Batch: 70952                                  Sample Preparation: 2011-08-03                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1450</b>	<b>1450</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273320 - 74-3**

Laboratory: El Paso  
 Analysis: NO3 (IC)                                  Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83530                                  Date Analyzed: 2011-08-03                      Analyzed By: JR  
 Prep Batch: 70952                                  Sample Preparation: 2011-08-03                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>15.0</b>	<b>15.0</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273320 - 74-3**

Laboratory: El Paso  
 Analysis: TDS    Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 83674                                  Date Analyzed: 2011-08-05                      Analyzed By: MD  
 Prep Batch: 71070                                  Sample Preparation: 2011-08-05                      Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4870</b>	<b>4870</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273320 - 74-3**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83636 Date Analyzed: 2011-08-05 Analyzed By: AH  
 Prep Batch: 71030 Sample Preparation: 2011-08-05 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	Q <sub>S,U</sub>	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273321 - 74- Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83530 Date Analyzed: 2011-08-03 Analyzed By: JR  
 Prep Batch: 70952 Sample Preparation: 2011-08-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>423</b>	<b>423</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273321 - 74- Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83530 Date Analyzed: 2011-08-03 Analyzed By: JR  
 Prep Batch: 70952 Sample Preparation: 2011-08-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273321 - 74- Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83674 Date Analyzed: 2011-08-05 Analyzed By: MD  
 Prep Batch: 71070 Sample Preparation: 2011-08-05 Prepared By: MD

*continued . . .*

*sample 273321 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2770</b>	<b>2770</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273321 - 74- Lagoon**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 83636

Prep Batch: 71030

Analytical Method: E 351.3

Date Analyzed: 2011-08-05

Sample Preparation: 2011-08-05

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	Qs	2	<b>97.9</b>	<b>97.9</b>	<2.17	mg/L	1	2.17	10	2.17



## Method Blanks

### Method Blank (1)

QC Batch: 83530  
Prep Batch: 70952Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83530  
Prep Batch: 70952Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 83636  
Prep Batch: 71030Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83674  
Prep Batch: 71070Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05Analyzed By: MD  
Prepared By: MD





# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83530  
Prep Batch: 70952Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	25.0	mg/L	1	25.0	<0.500	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.9	mg/L	1	25.0	<0.500	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83530  
Prep Batch: 70952Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.96	mg/L	1	5.00	<0.100	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.95	mg/L	1	5.00	<0.100	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83574  
Prep Batch: 70984Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	972	mg/L	1	1000	<5.00	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	944	mg/L	1	1000	<5.00	94	90 - 110	3	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83636  
Prep Batch: 71030

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<2.17	90	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<2.17	92	68.6 - 108	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83674  
Prep Batch: 71070

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	945	mg/L	1	1000	<5.00	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1010	mg/L	1	1000	<5.00	101	90 - 110	7	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Matrix Spike (MS-1) Spiked Sample: 273322

QC Batch: 83530  
Prep Batch: 70952

Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03

Analyzed By: JR  
Prepared By: JR



Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1880	mg/L	55.6	1390	420	105	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1880	mg/L	55.6	1390	420	105	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273322

QC Batch: 83530  
Prep Batch: 70952

Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	278	mg/L	55.6	278	<5.56	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	277	mg/L	55.6	278	<5.56	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273389

QC Batch: 83636  
Prep Batch: 71030

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N	qs	2	42.7	mg/L	1	50.0	28	29	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N	qs	2	37.5	mg/L	1	50.0	28	19	53.2 - 117	13	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 83530

Date Analyzed: 2011-08-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2011-08-03

### Standard (CCV-1)

QC Batch: 83530

Date Analyzed: 2011-08-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2011-08-03

### Standard (CCV-2)

QC Batch: 83530

Date Analyzed: 2011-08-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2011-08-03

### Standard (CCV-2)

QC Batch: 83530

Date Analyzed: 2011-08-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2011-08-03





---

# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



11080126

6701 Aberdeen, Ste. 9 Lubbock, TX 79424  
 Tel (806) 794-1298 Fax (806) 794-1298  
**TraceAnalysis, Inc.**  
 Phone #: 915-859-8150 Cell #:   
 Fax #:   
 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

**Company Name:** D&H Petroleum & Environmental Services  
**Address:** (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
**Contact Person:** Victor Ayala

**Invoice to (if different from above):** Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048  
**Project #:**   
**Project Name:** Buena Vista Dairy #2  
**Sampler Signature:** *[Signature]*

**Project Location (including state):** Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	Sampling	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH			ICE
273319	74-1	1	500ml	X				X					8/1/11 12:35	11:45
↓	74-1	1	500ml	X				X					8/1/11 13:35	14:45
	74-2	1	500ml	X				X					8/1/11 14:45	15:45
	74-2	1	500ml	X				X					8/1/11 14:45	15:45
273320	74-3	1	500ml	X				X					8/1/11 14:45	15:45
↓	74-3	1	500ml	X				X					8/1/11 14:45	15:45
	74-4	1	500ml	X				X						
	74-4	1	500ml	X				X						
	74-5	1	500ml	X				X						
	74-5	1	500ml	X				X						
273321	74 Lagoon	1	500ml	X				X					8/1/11 12:55	
↓	74 Lagoon	1	500ml	X				X					8/1/11 12:55	

**Relinquished By:** *[Signature]* Date: 8/1/11 Time: 16:20  
**Received By:** *[Signature]* Date: 8/1/11 Time: 16:20  
**Relinquished By:** *[Signature]* Date: 8/2/11 Time: 16:30  
**Received By:** *[Signature]* Date: 8/3/11 Time: 9:15

Page 1 of 1  
**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**  
 LAB Order ID # 11080126

ANALYSIS REQUEST	Hold
TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
BTEX 8021B/602	
MTEB 8021B/602	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates/Nitrite EPA 353.5 modified 300	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	

**Remarks:** Cl, NO<sub>3</sub>, TDS in EP  
 3x Fls IR 3.2 / 2.8  
 Dry Weight Basis Required  
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
 E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Isaac Dominguez  
 Dominguez Dairy #2  
 13600 Stern Drive  
 P. O. Box 21  
 Mesquite, NM, 88048

Report Date: August 9, 2011

Work Order: 11080125



Project Location: 13600 Stern Drive, Mesquite, NM  
 Project Name: Dominguez Dairy #2

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273316	42-9	water	2011-08-01	15:08	2011-08-01
273317	42-03	water	2011-08-01	14:35	2011-08-01
273318	Lagoon-42	water	2011-08-01	15:22	2011-08-01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
 Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2011-08-01 and assigned to work order 11080125. Samples for work order 11080125 were received intact at a temperature of 0.3 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	70951	2011-08-02 at 20:26	83529	2011-08-02 at 20:26
NO3 (IC)	E 300.0	70951	2011-08-02 at 20:26	83529	2011-08-02 at 20:26
TDS	SM 2540C	70984	2011-08-03 at 15:28	83574	2011-08-03 at 15:28
TKN	E 351.3	71029	2011-08-05 at 15:52	83637	2011-08-05 at 15:54

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080125 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

**Sample: 273316 - 42-9**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83529 Date Analyzed: 2011-08-02 Analyzed By: JR  
 Prep Batch: 70951 Sample Preparation: 2011-08-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	<b>579</b>	<b>579</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273316 - 42-9**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83529 Date Analyzed: 2011-08-02 Analyzed By: JR  
 Prep Batch: 70951 Sample Preparation: 2011-08-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	Qs	1	<b>55.0</b>	<b>55.0</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273316 - 42-9**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83574 Date Analyzed: 2011-08-03 Analyzed By: MD  
 Prep Batch: 70984 Sample Preparation: 2011-08-03 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2750</b>	<b>2750</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273316 - 42-9**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83637 Date Analyzed: 2011-08-05 Analyzed By: AH  
 Prep Batch: 71029 Sample Preparation: 2011-08-05 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273317 - 42-03**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83529                                  Date Analyzed: 2011-08-02                      Analyzed By: JR  
 Prep Batch: 70951                                  Sample Preparation: 2011-08-02                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	<b>1030</b>	<b>1030</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273317 - 42-03**

Laboratory: El Paso  
 Analysis: NO3 (IC)                                  Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83529                                  Date Analyzed: 2011-08-02                      Analyzed By: JR  
 Prep Batch: 70951                                  Sample Preparation: 2011-08-02                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	Qs	1	<b>59.2</b>	<b>59.2</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273317 - 42-03**

Laboratory: El Paso  
 Analysis: TDS    Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 83574                                  Date Analyzed: 2011-08-03                      Analyzed By: MD  
 Prep Batch: 70984                                  Sample Preparation: 2011-08-03                      Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3720</b>	<b>3720</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273317 - 42-03**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83637 Date Analyzed: 2011-08-05 Analyzed By: AH  
 Prep Batch: 71029 Sample Preparation: 2011-08-05 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273318 - Lagoon-42**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83529 Date Analyzed: 2011-08-02 Analyzed By: JR  
 Prep Batch: 70951 Sample Preparation: 2011-08-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	<b>957</b>	<b>957</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273318 - Lagoon-42**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83529 Date Analyzed: 2011-08-02 Analyzed By: JR  
 Prep Batch: 70951 Sample Preparation: 2011-08-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	Qs,U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273318 - Lagoon-42**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83574 Date Analyzed: 2011-08-03 Analyzed By: MD  
 Prep Batch: 70984 Sample Preparation: 2011-08-03 Prepared By: MD

*continued . . .*

sample 273318 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4630</b>	<b>4630</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273318 - Lagoon-42**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 83637  
Prep Batch: 71029

Analytical Method: E 351.3  
Date Analyzed: 2011-08-05  
Sample Preparation: 2011-08-05

Prep Method: N/A  
Analyzed By: AH  
Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>225</b>	<b>225</b>	<2.17	mg/L	1	2.17	10	2.17



## Method Blanks

### Method Blank (1)

QC Batch: 83529  
Prep Batch: 70951Date Analyzed: 2011-08-02  
QC Preparation: 2011-08-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83529  
Prep Batch: 70951Date Analyzed: 2011-08-02  
QC Preparation: 2011-08-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 83637  
Prep Batch: 71029Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Duplicate (1) Duplicated Sample: 273319

QC Batch: 83574  
Prep Batch: 70984Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: MD  
Prepared By: MD

Report Date: August 9, 2011

Work Order: 11080125  
Dominguez Dairy #2

Page Number: 9 of 15  
13600 Stern Drive, Mesquite, NM

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3160	3040	mg/L	1	4	10

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83529  
Prep Batch: 70951Date Analyzed: 2011-08-02  
QC Preparation: 2011-08-02Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.9	mg/L	1	25.0	<0.500	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	25.0	mg/L	1	25.0	<0.500	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83529  
Prep Batch: 70951Date Analyzed: 2011-08-02  
QC Preparation: 2011-08-02Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.94	mg/L	1	5.00	<0.100	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.95	mg/L	1	5.00	<0.100	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83574  
Prep Batch: 70984Date Analyzed: 2011-08-03  
QC Preparation: 2011-08-03Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	972	mg/L	1	1000	<5.00	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	944	mg/L	1	1000	<5.00	94	90 - 110	3	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 83637  
Prep Batch: 71029

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	52.5	mg/L	1	50.0	<2.17	105	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	50.7	mg/L	1	50.0	<2.17	101	68.6 - 108	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Matrix Spike (MS-1) Spiked Sample: 271318

QC Batch: 83529  
Prep Batch: 70951

Date Analyzed: 2011-08-02  
QC Preparation: 2011-08-02

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride	Qs	1	49.4	mg/L	1.11	27.8	3.71	164	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride	Qs	1	49.4	mg/L	1.11	27.8	3.71	164	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Matrix Spike (MS-1) Spiked Sample: 271318

QC Batch: 83529  
Prep Batch: 70951

Date Analyzed: 2011-08-02  
QC Preparation: 2011-08-02

Analyzed By: JR  
Prepared By: JR



Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	qs	1	5.37	mg/L	1.11	5.56	0.77	83	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N	qs	1	5.38	mg/L	1.11	5.56	0.77	83	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273318

QC Batch: 83637  
Prep Batch: 71029

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	277	mg/L	1	50.0	225	104	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	270	mg/L	1	50.0	225	90	53.2 - 117	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 83529

Date Analyzed: 2011-08-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2011-08-02

### Standard (CCV-1)

QC Batch: 83529

Date Analyzed: 2011-08-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2011-08-02

### Standard (CCV-2)

QC Batch: 83529

Date Analyzed: 2011-08-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2011-08-02

### Standard (CCV-2)

QC Batch: 83529

Date Analyzed: 2011-08-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2011-08-02





---

# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



11080125

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Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H El  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Page 1 of 2  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:

Phone #: 915-859-8150  
Cell #:

LAB Order ID # 11080125

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:

E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Victor Ayala

Invoice to (if different from above):

Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

Project #:

Project Name:

Dominguez Dairy #2

Project Location (including state):

Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

Sampler Signature:

*[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	
				WATER	AIR	SLUDGE	SOIL	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH			ICE
42-2		1	500ml	X				X						
42-2		1	500ml	X				X						
42-3		1	500ml	X				X						
42-3		1	500ml	X				X						
42-6		1	500ml	X				X						
42-6		1	500ml	X				X						
42-7		1	500ml	X				X						
42-7		1	500ml	X				X						
42-8		1	500ml	X				X						
42-8		1	500ml	X				X						
42-9		1	500ml	X				X			8-1-11	15:08		
42-9		1	500ml	X				X			8-1-11	15:08		
42-10		1	500ml	X				X						
42-10		1	500ml	X				X						
42-11		1	500ml	X				X						
42-11		1	500ml	X				X						
42-11		1	500ml	X				X						

### ANALYSIS REQUEST

MTRE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates/Nitrite EPA 353.3 modified 300.0	X
Total Kjeldahl Nitrogen SM 4500 NORGC	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	Hold

Relinquished By: *[Signature]* Date: 8-1-11 Time: 16:20

Received at Laboratory By: *[Signature]* Date: 8/1/11 Time: 16:20

Relinquished By: *[Signature]* Date: 8/2/11 Time: 16:30

Received at Laboratory By: *[Signature]* Date: 8/2/11 Time: 19:15

Lab Use Only  
Intact  Y  N

Headspace Y  N

Temp 24.03°C

Log-in Review  *[Signature]*

Remarks: NO<sub>3</sub>, Cl, TDS in EPA  
By IL3 via IR 3.2/2.8  
Dry Weight Basis Required  
TRRP Report Required *onice*

11080125

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Lubbock TX 79424  
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Paso, TX 79932  
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Page 2 of 2  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Phone #: 915-859-8150  
D&H Petroleum & Environmental Services Cell #:   
Address: (Street, City, Zip) Fax #:   
1221 Tower Trail Ln., El Paso, Texas 79907 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)  
Contact Person:   
Victor Ayala

LAB Order ID # 11080125

Invoice to (if different from above):  
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
Project #: 9181-11  
- I SA Dominguez  
Project Name: Dominguez Dairy #2

Project Location (including state):  
Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM  
Sampler Signature: [Signature]

LAB #	LAB USE (LAB ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	Turn Around Time	
					WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH				ICE
42-12			1	600ml	X				X							
42-12			1	500ml	X				X							
273317		42-12 03 JR 8-1-11	1	500ml	X				X				8-1-11	14:25		
273318		42-12 03 JR 8-1-11	1	500ml	X				X					14:35		
		Lagoon-42	1	500ml	X				X					15:22		
		Lagoon-42	1	500ml	X				X					15:22		

### ANALYSIS REQUEST

TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates/Nitrite EPA 363.5 modified 300.0	X
Total Kjeldahl Nitrogen SM 4500 NORGC	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X

Relinquished By: [Signature] Date: 8-1-11 Time: 16:20

Received By: [Signature] Date: 8/1/11 Time: 16:20

Relinquished By: [Signature] Date: 8/1/11 Time: 16:30

Received By: [Signature] Date: 8/1/11 Time: 16:20

Lab Use Only  
Intact  Y  N

Headspace Y  N  N

Temp 0.4/23.6

Log-in Review

Remarks: Cl, NO<sub>3</sub>, TDS in EP  
By Tel 3 IR: 3.2/12.8  
Dry Weight Basis Required  
TRRP Report Required





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Joe Gonzalez  
Gonzalez Dairy  
14310 Stern Drive  
P.O. Box 199  
Mesquite, NM, 88048

Report Date: August 12, 2011

Work Order: 11080323



Project Location: 14310 Stern Dr., Mesquite, NM  
Project Name: Gonzalez Dairy 177  
Project Number: 255819

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273556	177-01	water	2011-08-02	15:18	2011-08-02
273557	177-03	water	2011-08-02	11:15	2011-08-02
273558	177-04	water	2011-08-02	15:15	2011-08-02
273559	177-05	water	2011-08-02	09:50	2011-08-02
273560	177-06	water	2011-08-02	08:43	2011-08-02
273561	Lagoon	water	2011-08-02	11:27	2011-08-02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project Gonzalez Dairy 177 were received by TraceAnalysis, Inc. on 2011-08-02 and assigned to work order 11080323. Samples for work order 11080323 were received intact at a temperature of 0.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71137	2011-08-05 at 20:11	83754	2011-08-05 at 20:11
Chloride (IC)	E 300.0	71139	2011-08-06 at 00:34	83757	2011-08-06 at 00:34
NO3 (IC)	E 300.0	71137	2011-08-05 at 20:11	83754	2011-08-05 at 20:11
NO3 (IC)	E 300.0	71139	2011-08-06 at 00:34	83757	2011-08-06 at 00:34
TDS	SM 2540C	71070	2011-08-05 at 15:52	83674	2011-08-05 at 15:52
TDS	SM 2540C	71134	2011-08-10 at 15:25	83752	2011-08-10 at 15:25
TKN	E 351.3	71103	2011-08-09 at 11:49	83824	2011-08-09 at 13:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080323 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 273556 - 177-01

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83754 Date Analyzed: 2011-08-05 Analyzed By: JR  
 Prep Batch: 71137 Sample Preparation: 2011-08-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1200	1200	<25.0	mg/L	50	25.0	2.5	0.5

## Sample: 273556 - 177-01

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83754 Date Analyzed: 2011-08-05 Analyzed By: JR  
 Prep Batch: 71137 Sample Preparation: 2011-08-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	26.0	26.0	<1.00	mg/L	10	1.00	0.5	0.1

## Sample: 273556 - 177-01

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83674 Date Analyzed: 2011-08-05 Analyzed By: MD  
 Prep Batch: 71070 Sample Preparation: 2011-08-05 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	4000	4000	<5.00	mg/L	1	5.00	5	5

## Sample: 273556 - 177-01

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71103 Sample Preparation: 2011-08-09 Prepared By: AH



Report Date: August 12, 2011  
255819

Work Order: 11080323  
Gonzalez Dairy 177

Page Number: 7 of 24  
14310 Stern Dr., Mesquite, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.24</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273557 - 177-03**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83754      Date Analyzed: 2011-08-05      Analyzed By: JR  
 Prep Batch: 71137      Sample Preparation: 2011-08-05      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>427</b>	<b>427</b>	<5.00	mg/L	10	5.00	2.5	0.5

**Sample: 273557 - 177-03**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83754      Date Analyzed: 2011-08-05      Analyzed By: JR  
 Prep Batch: 71137      Sample Preparation: 2011-08-05      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273557 - 177-03**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 83674      Date Analyzed: 2011-08-05      Analyzed By: MD  
 Prep Batch: 71070      Sample Preparation: 2011-08-05      Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>1490</b>	<b>1490</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273557 - 177-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71103 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273558 - 177-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83754 Date Analyzed: 2011-08-05 Analyzed By: JR  
 Prep Batch: 71137 Sample Preparation: 2011-08-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1080</b>	<b>1080</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273558 - 177-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83754 Date Analyzed: 2011-08-05 Analyzed By: JR  
 Prep Batch: 71137 Sample Preparation: 2011-08-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>21.6</b>	<b>21.6</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273558 - 177-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

*continued . . .*

sample 273558 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3670</b>	<b>3670</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273558 - 177-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71103 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273559 - 177-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1120</b>	<b>1120</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273559 - 177-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR



Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H	1	<b>36.3</b>	<b>36.3</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273559 - 177-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3420</b>	<b>3420</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273559 - 177-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71103 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273560 - 177-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>910</b>	<b>910</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273560 - 177-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	16.1	16.1	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273560 - 177-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3020	3020	<5.00	mg/L	1	5.00	5	5

**Sample: 273560 - 177-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71103 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273561 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR

*continued ...*

sample 273561 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1410</b>	<b>1410</b>	<50.0	mg/L	100	50.0	2.5	0.5

**Sample: 273561 - Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H,U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273561 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>7150</b>	<b>7150</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273561 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71103 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>129</b>	<b>129</b>	<2.17	mg/L	1	2.17	10	2.17



## Method Blanks

### Method Blank (1)

QC Batch: 83674  
Prep Batch: 71070

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83752  
Prep Batch: 71134

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83754  
Prep Batch: 71137

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83754  
Prep Batch: 71137

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: JR  
Prepared By: JR

Report Date: August 12, 2011  
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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

**Method Blank (1)**

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
Prep Batch: 71139 QC Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

**Method Blank (1)**

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
Prep Batch: 71139 QC Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

**Method Blank (1)**

QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH  
Prep Batch: 71103 QC Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

**Duplicate (1)** Duplicated Sample: 273557

QC Batch: 83674 Date Analyzed: 2011-08-05 Analyzed By: MD  
Prep Batch: 71070 QC Preparation: 2011-08-05 Prepared By: MD

Report Date: August 12, 2011  
255819

Work Order: 11080323  
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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1520	1490	mg/L	1	2	10

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**Duplicate (1)** Duplicated Sample: 273583

QC Batch: 83752  
Prep Batch: 71134

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: MD  
Prepared By: MD

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1320	1340	mg/L	1	2	10

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83674  
Prep Batch: 71070

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	945	mg/L	1	1000	<5.00	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<5.00	101	90 - 110	7	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83752  
Prep Batch: 71134

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83754  
Prep Batch: 71137

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.3	mg/L	1	25.0	<0.500	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	25.3	mg/L	1	25.0	<0.500	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83754  
Prep Batch: 71137

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.05	mg/L	1	5.00	<0.100	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.05	mg/L	1	5.00	<0.100	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83757  
Prep Batch: 71139

Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	25.4	mg/L	1	25.0	<0.500	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	25.3	mg/L	1	25.0	<0.500	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83757  
Prep Batch: 71139

Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.06	mg/L	1	5.00	<0.100	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.05	mg/L	1	5.00	<0.100	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83824  
Prep Batch: 71103

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	47.9	mg/L	1	50.0	<2.17	96	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	45.2	mg/L	1	50.0	<2.17	90	68.6 - 108	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1) Spiked Sample: 273557**

QC Batch: 83754  
Prep Batch: 71137

Date Analyzed: 2011-08-05  
QC Preparation: 2011-08-05

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1860	mg/L	55.6	1390	427	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1850	mg/L	55.6	1390	427	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



**Matrix Spike (MS-1)** Spiked Sample: 273557

QC Batch: 83754 Date Analyzed: 2011-08-05 Analyzed By: JR  
Prep Batch: 71137 QC Preparation: 2011-08-05 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	283	mg/L	55.6	278	<5.56	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	282	mg/L	55.6	278	<5.56	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273578

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
Prep Batch: 71139 QC Preparation: 2011-08-06 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1860	mg/L	55.6	1390	424	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1860	mg/L	55.6	1390	424	103	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273578

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
Prep Batch: 71139 QC Preparation: 2011-08-06 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	306	mg/L	55.6	278	20.5	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	306	mg/L	55.6	278	20.5	103	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273577

QC Batch: 83824  
Prep Batch: 71103

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	96.7	mg/L	1	50.0	54.7	84	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	96.3	mg/L	1	50.0	54.7	83	53.2 - 117	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





**Standard (CCV-1)**

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-08-06

**Standard (CCV-1)**

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2011-08-06

**Standard (CCV-2)**

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2011-08-06

**Standard (CCV-2)**

QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2011-08-06

**Standard (ICV-1)**

QC Batch: 83824 Date Analyzed: 2011-08-09 Analyzed By: AH

Report Date: August 12, 2011  
255819

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.04	101	85 - 115	2011-08-09

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**Standard (CCV-1)**

QC Batch: 83824

Date Analyzed: 2011-08-09

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.18	104	85 - 115	2011-08-09

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## Appendix

### Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

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### Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

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### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



# 11080323

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
Project Name: Gonzalez Dairy Inc.  
Gonzalez Dairy, PO Box 199, Mesquite, NM 88048

155 McCutcheon, Ste. H El Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail: vajala@dhpump.com

Project Location (including state):  
Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling									
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME						
177-01		1	500ml	X				X													
177-01		1	500ml	X				X													
273556-1	177-01	1	500ml	X				X						8/2/11	15:18						
273557-1	177-03	1	500ml	X				X						8/2/11	15:18						
273558-1	177-03	1	500ml	X				X						8/2/11	11:15						
273559-1	177-04	1	500ml	X				X						8/2/11	11:15						
273560-1	177-05	1	500ml	X				X						8/2/11	15:15						
273561-1	177-06	1	500ml	X				X						8/2/11	15:15						
273562-1	177-05	1	500ml	X				X						8/2/11	9:50						
273563-1	177-06	1	500ml	X				X						8/2/11	9:50						
273564-1	177-06	1	500ml	X				X						8/2/11	8:43						
273565-1	177-06	1	500ml	X				X						8/2/11	8:43						
273566-1	177-06	1	500ml	X				X						8/2/11	8:43						
273567-1	177-06	1	500ml	X				X						8/2/11	8:43						
273568-1	177-06	1	500ml	X				X						8/2/11	8:43						
273569-1	177-06	1	500ml	X				X						8/2/11	8:43						
273570-1	177-06	1	500ml	X				X						8/2/11	8:43						
273571-1	177-06	1	500ml	X				X						8/2/11	8:43						
273572-1	177-06	1	500ml	X				X						8/2/11	8:43						
273573-1	177-06	1	500ml	X				X						8/2/11	8:43						
273574-1	177-06	1	500ml	X				X						8/2/11	8:43						
273575-1	177-06	1	500ml	X				X						8/2/11	8:43						
273576-1	177-06	1	500ml	X				X						8/2/11	8:43						
273577-1	177-06	1	500ml	X				X						8/2/11	8:43						
273578-1	177-06	1	500ml	X				X						8/2/11	8:43						
273579-1	177-06	1	500ml	X				X						8/2/11	8:43						
273580-1	177-06	1	500ml	X				X						8/2/11	8:43						
273581-1	177-06	1	500ml	X				X						8/2/11	8:43						
273582-1	177-06	1	500ml	X				X						8/2/11	8:43						
273583-1	177-06	1	500ml	X				X						8/2/11	8:43						
273584-1	177-06	1	500ml	X				X						8/2/11	8:43						
273585-1	177-06	1	500ml	X				X						8/2/11	8:43						
273586-1	177-06	1	500ml	X				X						8/2/11	8:43						
273587-1	177-06	1	500ml	X				X						8/2/11	8:43						
273588-1	177-06	1	500ml	X				X						8/2/11	8:43						
273589-1	177-06	1	500ml	X				X						8/2/11	8:43						
273590-1	177-06	1	500ml	X				X						8/2/11	8:43						
273591-1	177-06	1	500ml	X				X						8/2/11	8:43						
273592-1	177-06	1	500ml	X				X						8/2/11	8:43						
273593-1	177-06	1	500ml	X				X						8/2/11	8:43						
273594-1	177-06	1	500ml	X				X						8/2/11	8:43						
273595-1	177-06	1	500ml	X				X						8/2/11	8:43						
273596-1	177-06	1	500ml	X				X						8/2/11	8:43						
273597-1	177-06	1	500ml	X				X						8/2/11	8:43						
273598-1	177-06	1	500ml	X				X						8/2/11	8:43						
273599-1	177-06	1	500ml	X				X						8/2/11	8:43						
273600-1	177-06	1	500ml	X				X						8/2/11	8:43						
273601-1	177-06	1	500ml	X				X						8/2/11	8:43						
273602-1	177-06	1	500ml	X				X						8/2/11	8:43						
273603-1	177-06	1	500ml	X				X						8/2/11	8:43						
273604-1	177-06	1	500ml	X				X						8/2/11	8:43						
273605-1	177-06	1	500ml	X				X						8/2/11	8:43						
273606-1	177-06	1	500ml	X				X						8/2/11	8:43						
273607-1	177-06	1	500ml	X				X						8/2/11	8:43						
273608-1	177-06	1	500ml	X				X						8/2/11	8:43						
273609-1	177-06	1	500ml	X				X						8/2/11	8:43						
273610-1	177-06	1	500ml	X				X						8/2/11	8:43						
273611-1	177-06	1	500ml	X				X						8/2/11	8:43						
273612-1	177-06	1	500ml	X				X						8/2/11	8:43						
273613-1	177-06	1	500ml	X				X						8/2/11	8:43						
273614-1	177-06	1	500ml	X				X						8/2/11	8:43						
273615-1	177-06	1	500ml	X				X						8/2/11	8:43						
273616-1	177-06	1	500ml	X				X						8/2/11	8:43						
273617-1	177-06	1	500ml	X				X						8/2/11	8:43						
273618-1	177-06	1	500ml	X				X						8/2/11	8:43						
273619-1	177-06	1	500ml	X				X						8/2/11	8:43						
273620-1	177-06	1	500ml	X				X						8/2/11	8:43						
273621-1	177-06	1	500ml	X				X						8/2/11	8:43						
273622-1	177-06	1	500ml	X				X						8/2/11	8:43						
273623-1	177-06	1	500ml	X				X						8/2/11	8:43						
273624-1	177-06	1	500ml	X				X						8/2/11	8:43						
273625-1	177-06	1	500ml	X				X						8/2/11	8:43						
273626-1	177-06	1	500ml	X				X						8/2/11	8:43						
273627-1	177-06	1	500ml	X				X						8/2/11	8:43						
273628-1	177-06	1	500ml	X				X						8/2/11	8:43						
273629-1	177-06	1	500ml	X				X													



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E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Joe Gonzalez  
Gonzalez Dairy  
14310 Stern Drive  
P.O. Box 199  
Mesquite, NM, 88048

Report Date: August 17, 2011

Work Order: 11080414



Project Location: 14310 Stern Dr., Mesquite, NM  
Project Name: Gonzalez Dairy 177  
Project Number: 255819

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273663	177-02	water	2011-08-03	08:39	2011-08-03
273664	177-07R	water	2011-08-03	09:25	2011-08-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Gonzalez Dairy 177 were received by TraceAnalysis, Inc. on 2011-08-03 and assigned to work order 11080414. Samples for work order 11080414 were received intact at a temperature of 0.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71290	2011-08-10 at 02:00	83960	2011-08-10 at 02:00
NO3 (IC)	E 300.0	71290	2011-08-10 at 02:00	83960	2011-08-10 at 02:00
TDS	SM 2540C	71143	2011-08-09 at 15:20	83767	2011-08-09 at 15:20
TKN	E 351.3	71141	2011-08-10 at 11:39	83828	2011-08-12 at 13:21

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080414 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 273663 - 177-02

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>997</b>	<b>997</b>	<25.0	mg/L	50	25.0	2.5	0.5

## Sample: 273663 - 177-02

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>34.4</b>	<b>34.4</b>	<0.500	mg/L	5	0.500	0.5	0.1

## Sample: 273663 - 177-02

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3340</b>	<b>3340</b>	<5.00	mg/L	1	5.00	5	5

## Sample: 273663 - 177-02

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH

Report Date: August 17, 2011  
255819

Work Order: 11080414  
Gonzalez Dairy 177

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14310 Stern Dr., Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.80</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273664 - 177-07R**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83960      Date Analyzed: 2011-08-10      Analyzed By: JR  
 Prep Batch: 71290      Sample Preparation: 2011-08-10      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1050</b>	<b>1050</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273664 - 177-07R**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83960      Date Analyzed: 2011-08-10      Analyzed By: JR  
 Prep Batch: 71290      Sample Preparation: 2011-08-10      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>25.2</b>	<b>25.2</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273664 - 177-07R**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 83767      Date Analyzed: 2011-08-09      Analyzed By: MD  
 Prep Batch: 71143      Sample Preparation: 2011-08-09      Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3250</b>	<b>3250</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273664 - 177-07R**



Report Date: August 17, 2011  
255819

Work Order: 11080414  
Gonzalez Dairy 177

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14310 Stern Dr., Mesquite, NM

Laboratory: Lubbock

Analysis: TKN

QC Batch: 83828

Prep Batch: 71141

Analytical Method: E 351.3

Date Analyzed: 2011-08-12

Sample Preparation: 2011-08-10

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.80</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83767  
Prep Batch: 71143

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83828  
Prep Batch: 71141

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10

Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Report Date: August 17, 2011  
255819

Work Order: 11080414  
Gonzalez Dairy 177

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14310 Stern Dr., Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Duplicate (1)** Duplicated Sample: 273668

QC Batch: 83767  
Prep Batch: 71143

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: MD  
Prepared By: MD

---

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1920	1940	mg/L	1	1	10

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83767  
Prep Batch: 71143

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	948	mg/L	1	1000	<5.00	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	983	mg/L	1	1000	<5.00	98	90 - 110	4	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83828  
Prep Batch: 71141

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.5	mg/L	1	50.0	<2.17	79	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	48.0	mg/L	1	50.0	<2.17	96	68.6 - 108	19	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.6	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.6	mg/L	1	25.0	<0.500	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
Prep Batch: 71290 QC Preparation: 2011-08-10 Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.91	mg/L	1	5.00	<0.100	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.90	mg/L	1	5.00	<0.100	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1) Spiked Sample: 273672**

QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
Prep Batch: 71141 QC Preparation: 2011-08-10 Prepared By: AH

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	37.1	mg/L	1	50.0	6.44	61	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	39.5	mg/L	1	50.0	6.44	66	53.2 - 117	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1) Spiked Sample: 273667**

QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
Prep Batch: 71290 QC Preparation: 2011-08-10 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1930	mg/L	55.6	1390	478	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1930	mg/L	55.6	1390	478	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273667

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	274	mg/L	55.6	278	<5.56	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	275	mg/L	55.6	278	<5.56	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.







## Appendix

### Laboratory Certifications

	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

---

### Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



#-11080414

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**TraceAnalysis, Inc.**  
155 McCutcheon, Ste. H El Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: \_\_\_\_\_ Phone #: 915-859-8150  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip) \_\_\_\_\_ Cell #: \_\_\_\_\_  
1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: \_\_\_\_\_ E-mail: vajala@dhpump.com  
Victor Ayala

Invoice to (if different from above): \_\_\_\_\_  
Gonzalez Dairy, PO Box 199, Mesquite, NM 88048  
Project #: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Gonzalez Dairy Inc.  
Project Location (including state): \_\_\_\_\_  
Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM  
Sampler Signature: \_\_\_\_\_

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		TIME	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE		TIME
177-01		1	500ml	X				X							
177-04		1	500ml	X				X							
273663-1		1	500ml	X				X					8-3-11	8:39	
↓ -2		1	500ml	X				X					8-3-11	8:39	
177-03		1	500ml	X				X							
177-04		1	500ml	X				X							
177-04		1	500ml	X				X							
177-05		1	500ml	X				X							
177-05		1	500ml	X				X							
177-06		1	500ml	X				X							
177-06		1	500ml	X				X							
273664-1		1	500ml	X				X					8/3/11	9:25	
↓ -2		1	500ml	X				X					8/3/11	9:25	
Lagoon 3-Midwest		1	500ml	X				X							
Lagoon 3-Midwest		1	500ml	X				X							
Lagoon 3-Midwest		1	500ml	X				X							
Lagoon 3-Midwest		1	500ml	X				X							

Relinquished By: \_\_\_\_\_ Date: 8-3-11 Time: 16:25  
 Thorsten Melius  
 Relinquished By: \_\_\_\_\_ Date: 8/4/11 Time: 17:00

Received By: \_\_\_\_\_ Date: 8/3/11 Time: 16:25  
 Received at Laboratory By: \_\_\_\_\_ Date: 8/10/11 Time: 9:45

Lab Use Only  
 Intact  Y  N  
 Headspace Y  N  
 Temp  Ice  Room Temp  
 Log-in Review  Yes  No

Remarks: \_\_\_\_\_  
 C1, NO<sub>3</sub>, NO<sub>2</sub> dom in EP  
 Dry Weight Basis Required  
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

John DeRuyter  
Mountain View Dairy  
13090 Stern Drive  
P.O. Box 345  
Mesquite, NM, 88048

Report Date: August 17, 2011

Work Order: 11080419



DP: 70  
Project Location: 13090 Stern Drive, Mesquite, NM  
Project Name: Mountain View Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273675	70-01	water	2011-08-03	14:33	2011-08-03
273676	70-03	water	2011-08-03	14:38	2011-08-03
273677	Lagoon	water	2011-08-03	15:20	2011-08-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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Sample 273677 (Lagoon) . . . . .	6
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QC Batch 83798 - Method Blank (1) . . . . .	8
QC Batch 83830 - Method Blank (1) . . . . .	8
QC Batch 83959 - Method Blank (1) . . . . .	8
QC Batch 83959 - Method Blank (1) . . . . .	8
QC Batch 83798 - Duplicate (1) . . . . .	9
QC Batch 83800 - Duplicate (1) . . . . .	9
<b>Laboratory Control Spikes</b>	<b>10</b>
QC Batch 83798 - LCS (1) . . . . .	10
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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2011-08-03 and assigned to work order 11080419. Samples for work order 11080419 were received intact at a temperature of 0.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71289	2011-08-11 at 00:14	83959	2011-08-11 at 00:14
NO3 (IC)	E 300.0	71289	2011-08-11 at 00:14	83959	2011-08-11 at 00:14
TDS	SM 2540C	71168	2011-08-10 at 15:40	83798	2011-08-10 at 15:40
TDS	SM 2540C	71168	2011-08-10 at 15:40	83800	2011-08-10 at 15:40
TKN	E 351.3	71142	2011-08-10 at 15:39	83830	2011-08-12 at 13:29

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080419 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 273675 - 70-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71289 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>641</b>	<b>641</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273675 - 70-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71289 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>20.7</b>	<b>20.7</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273675 - 70-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83798 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71168 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2630</b>	<b>2630</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273675 - 70-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83830 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71142 Sample Preparation: 2011-08-10 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.80</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273676 - 70-03**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83959      Date Analyzed: 2011-08-11      Analyzed By: JR  
 Prep Batch: 71289      Sample Preparation: 2011-08-11      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>3140</b>	<b>3140</b>	<50.0	mg/L	100	50.0	2.5	0.5

**Sample: 273676 - 70-03**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83959      Date Analyzed: 2011-08-11      Analyzed By: JR  
 Prep Batch: 71289      Sample Preparation: 2011-08-11      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>63.1</b>	<b>63.1</b>	<10.0	mg/L	100	10.0	0.5	0.1

**Sample: 273676 - 70-03**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 83800      Date Analyzed: 2011-08-10      Analyzed By: MD  
 Prep Batch: 71168      Sample Preparation: 2011-08-10      Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>8040</b>	<b>8040</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273676 - 70-03**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83830 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71142 Sample Preparation: 2011-08-10 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.80</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273677 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71289 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1640</b>	<b>1640</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273677 - Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71289 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273677 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83800 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71168 Sample Preparation: 2011-08-10 Prepared By: MD

*continued . . .*

sample 273677 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>9020</b>	<b>9020</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273677 - Lagoon**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 83830  
Prep Batch: 71142

Analytical Method: E 351.3  
Date Analyzed: 2011-08-12  
Sample Preparation: 2011-08-10

Prep Method: N/A  
Analyzed By: AH  
Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>272</b>	<b>272</b>	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83798  
Prep Batch: 71168Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83830  
Prep Batch: 71142Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83959  
Prep Batch: 71289Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83959  
Prep Batch: 71289Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11Analyzed By: JR  
Prepared By: JR





# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83798  
Prep Batch: 71168Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	988	mg/L	1	1000	<5.00	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	986	mg/L	1	1000	<5.00	99	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83800  
Prep Batch: 71168Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	985	mg/L	1	1000	<5.00	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	968	mg/L	1	1000	<5.00	97	90 - 110	2	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83830  
Prep Batch: 71142Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	42.8	mg/L	1	50.0	<2.17	86	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	38.1	mg/L	1	50.0	<2.17	76	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	33.9	mg/L	1	50.0	<2.17	68	53.2 - 117	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273672

QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
Prep Batch: 71289 QC Preparation: 2011-08-11 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2020	mg/L	55.6	1390	559	105	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1	2010	mg/L	55.6	1390	559	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273672

QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
Prep Batch: 71289 QC Preparation: 2011-08-11 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	293	mg/L	55.6	278	18.2	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Nitrate-N		1	292	mg/L	55.6	278	18.2	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (ICV-1)

QC Batch: 83830

Date Analyzed: 2011-08-12

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.10	102	85 - 115	2011-08-12

### Standard (CCV-1)

QC Batch: 83830

Date Analyzed: 2011-08-12

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.40	108	85 - 115	2011-08-12

### Standard (CCV-1)

QC Batch: 83959

Date Analyzed: 2011-08-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2011-08-11

### Standard (CCV-1)

QC Batch: 83959

Date Analyzed: 2011-08-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2011-08-11





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# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



# 11080417

6707 Aberdeen, Ste. 9 Lubbock, TX 79424  
 Tel (806) 794-1296 Fax (806) 794-1298  
**TraceAnalysis, Inc.**  
 155 McCutcheon, Ste. H Paso, TX 79932  
 Tel (915) 565-3443 Fax (915) 565-4944  
 Page 2 of 2  
**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**  
 LAB Order ID # \_\_\_\_\_

**Company Name:** D&H Petroleum & Environmental Services  
**Address:** (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
**Contact Person:** Victor Ayala  
**Phone #:** 915-859-8150  
**Cell #:** \_\_\_\_\_  
**Fax #:** \_\_\_\_\_  
**E-mail:** vayala@dhpump.com

**Invoice to (if different from above):** Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048  
**Project #:** \_\_\_\_\_  
**Project Name:** Mountain View Dairy  
**Sampler Signature:** *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
273675-1	70-01	1	500ml	X				X		X			8-3-11	14:33
↓ -2	70-01	1	500ml	X				X		X			8-3-11	14:33
8-3-11	70-02	1	500ml	X				X		X				
273676-1	70-03	1	500ml	X				X		X			8-3-11	14:38
↓ -2	70-03	1	500ml	X				X		X			8-3-11	14:38
213677-1	Lagoon	1	500ml	X				X		X			8-3-11	15:20
↓ -2	Lagoon	1	500ml	X				X		X			8-3-11	15:20

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Lab Use Only	Remarks:
<i>[Signature]</i>	8-3-11	16:25	<i>[Signature]</i>	8/3/11	16:25	Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Headspace <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Temp <i>10.0</i> <input type="checkbox"/> <i>7.5</i> <input type="checkbox"/> Log-in Review <i>Y</i> <input type="checkbox"/> <i>N</i> <input type="checkbox"/>	C1, NO <sub>3</sub> , TDS down in el
<i>[Signature]</i>	8/4/11	1700	<i>[Signature]</i>	8/5/11	9:45		Dry Weight Basis Required <input type="checkbox"/> TRRP Report Required <input type="checkbox"/>

11080417





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
 E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

John DeRuyter  
 Del Norte Dairy, LLC  
 12560 Stern Drive  
 P. O. Box 10  
 Mesquite, NM, 88048

Report Date: August 17, 2011

Work Order: 11080417



Project Location: 12560 Stern Dr., Mesquite, NM  
 Project Name: Del Norte Dairy  
 Project Number: DP-126

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273672	126-04	water	2011-08-03	15:25	2011-08-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
 Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Del Norte Dairy were received by TraceAnalysis, Inc. on 2011-08-03 and assigned to work order 11080417. Samples for work order 11080417 were received intact at a temperature of 0.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71289	2011-08-11 at 00:14	83959	2011-08-11 at 00:14
NO3 (IC)	E 300.0	71289	2011-08-11 at 00:14	83959	2011-08-11 at 00:14
TDS	SM 2540C	71168	2011-08-10 at 15:40	83798	2011-08-10 at 15:40
TKN	E 351.3	71141	2011-08-10 at 11:39	83828	2011-08-12 at 13:21

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080417 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

## Sample: 273672 - 126-04

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71289 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>559</b>	<b>559</b>	<25.0	mg/L	50	25.0	2.5	0.5

## Sample: 273672 - 126-04

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83959 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71289 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H	1	<b>18.2</b>	<b>18.2</b>	<0.500	mg/L	5	0.500	0.5	0.1

## Sample: 273672 - 126-04

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83798 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71168 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2460</b>	<b>2460</b>	<5.00	mg/L	1	5.00	5	5

## Sample: 273672 - 126-04

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH

Report Date: August 17, 2011  
DP-126

Work Order: 11080417  
Del Norte Dairy

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---

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N	J	2	<b>6.44</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

---

## Method Blanks

### Method Blank (1)

QC Batch: 83798  
Prep Batch: 71168

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83828  
Prep Batch: 71141

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10

Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83959  
Prep Batch: 71289

Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83959  
Prep Batch: 71289

Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11

Analyzed By: JR  
Prepared By: JR



Report Date: August 17, 2011  
DP-126

Work Order: 11080417  
Del Norte Dairy

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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Duplicate (1)** Duplicated Sample: 273675

QC Batch: 83798  
Prep Batch: 71168

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: MD  
Prepared By: MD

---

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2780	2630	mg/L	1	6	10

---

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83798  
 Prep Batch: 71168

Date Analyzed: 2011-08-10  
 QC Preparation: 2011-08-10

Analyzed By: MD  
 Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	988	mg/L	1	1000	<5.00	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	986	mg/L	1	1000	<5.00	99	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83828  
 Prep Batch: 71141

Date Analyzed: 2011-08-12  
 QC Preparation: 2011-08-10

Analyzed By: AH  
 Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.5	mg/L	1	50.0	<2.17	79	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	48.0	mg/L	1	50.0	<2.17	96	68.6 - 108	19	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83959  
 Prep Batch: 71289

Date Analyzed: 2011-08-11  
 QC Preparation: 2011-08-11

Analyzed By: JR  
 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





Report Date: August 17, 2011  
DP-126

Work Order: 11080417  
Del Norte Dairy

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12560 Stern Dr., Mesquite, NM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2020	mg/L	55.6	1390	559	105	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2010	mg/L	55.6	1390	559	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273672

QC Batch: 83959  
Prep Batch: 71289

Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	293	mg/L	55.6	278	18.2	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	292	mg/L	55.6	278	18.2	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.







## Appendix

### Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

---

### Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

#11080417

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
Contact Person: Victor Ayala  
Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail: yayala@dhpump.com

Invoice to (if different from above):  
Del Norte Dairy, P.O. Box 10, Mesquite, NM 88048  
Project #:   
Project Name: Daybreak Dairy  
Sampler Signature: *[Signature]*

Project Location (including state):  
Del Norte Dairy, 12560 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	SAMPLING TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE			NONE
126-4		1	500ml	X				X			X			8-3-11 15:25	
126-4		1	500ml	X				X			X			8-3-11 15:25	
126-5		1	500ml	X				X			X				
126-5		1	500ml	X				X			X				
126-7		1	500ml	X				X			X				
126-7		1	500ml	X				X			X				
126-9		1	500ml	X				X			X				
126-9		1	500ml	X				X			X				
126-12		1	500ml	X				X			X				
126-12		1	500ml	X				X			X				
126-13		1	500ml	X				X			X				
126-13		1	500ml	X				X			X				
Lagoon		1	500ml	X				X			X				
Lagoon		1	500ml	X				X			X				

Relinquished By: *[Signature]* Date: 8-3-11 Time: 16:25  
 Received By: *[Signature]* Date: 8/3/11 Time: 16:25  
 Relinquished By: *[Signature]* Date: 8/4/11 Time: 1700  
 Received at Laboratory By: *[Signature]* Date:   
 Date:   
 Time:   
 Lab Use Only:  Inact  N  
 Headspace Y/N   
 Temp. *[Signature]*   
 Log-in Review *[Signature]*

ANALYSIS REQUEST	Hold
MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates/Nitrite EPA 353.5 modified	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	

Remarks: *cl, NO<sub>2</sub>, TDS down in AP*

Dry Weight Basis Required   
 TRRP Report Required







6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Isaac Dominguez  
Dominguez Dairy #2  
13600 Stern Drive  
P. O. Box 21  
Mesquite, NM, 88048

Report Date: August 17, 2011

Work Order: 11080328



Project Location: 13600 Stern Drive, Mesquite, NM  
Project Name: Dominguez Dairy #2

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273578	42-2	water	2011-08-02	12:56	2011-08-02
273579	42-6	water	2011-08-02	10:54	2011-08-02
273580	42-8	water	2011-08-02	13:30	2011-08-02
273581	42-10	water	2011-08-02	09:48	2011-08-02
273582	42-11	water	2011-08-02	08:47	2011-08-02
273583	42-12	water	2011-08-02	09:20	2011-08-02
273584	42-13	water	2011-08-02	12:13	2011-08-02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2011-08-02 and assigned to work order 11080328. Samples for work order 11080328 were received intact at a temperature of 0.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71139	2011-08-06 at 00:34	83757	2011-08-06 at 00:34
Chloride (IC)	E 300.0	71288	2011-08-10 at 19:35	83958	2011-08-10 at 19:35
Chloride (IC)	E 300.0	71291	2011-08-09 at 21:21	83961	2011-08-09 at 21:21
NO3 (IC)	E 300.0	71139	2011-08-06 at 00:34	83757	2011-08-06 at 00:34
NO3 (IC)	E 300.0	71288	2011-08-10 at 19:35	83958	2011-08-10 at 19:35
NO3 (IC)	E 300.0	71291	2011-08-09 at 21:21	83961	2011-08-09 at 21:21
TDS	SM 2540C	71134	2011-08-10 at 15:25	83752	2011-08-10 at 15:25
TDS	SM 2540C	71143	2011-08-09 at 15:20	83767	2011-08-09 at 15:20
TKN	E 351.3	71104	2011-08-09 at 11:49	83825	2011-08-09 at 13:08

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080328 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 273578 - 42-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>424</b>	<b>424</b>	<5.00	mg/L	10	5.00	2.5	0.5

**Sample: 273578 - 42-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83757 Date Analyzed: 2011-08-06 Analyzed By: JR  
 Prep Batch: 71139 Sample Preparation: 2011-08-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>20.5</b>	<b>20.5</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273578 - 42-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2360</b>	<b>2360</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273578 - 42-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83825 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71104 Sample Preparation: 2011-08-09 Prepared By: AH



Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.38</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273579 - 42-6**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83757      Date Analyzed: 2011-08-06      Analyzed By: JR  
 Prep Batch: 71139      Sample Preparation: 2011-08-06      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>525</b>	<b>525</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273579 - 42-6**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83757      Date Analyzed: 2011-08-06      Analyzed By: JR  
 Prep Batch: 71139      Sample Preparation: 2011-08-06      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>88.6</b>	<b>88.6</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 273579 - 42-6**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 83752      Date Analyzed: 2011-08-10      Analyzed By: MD  
 Prep Batch: 71134      Sample Preparation: 2011-08-10      Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2980</b>	<b>2980</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273579 - 42-6**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83825 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71104 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	J	2	<b>3.22</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273580 - 42-8**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Chloride		1	<b>253</b>	<b>253</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273580 - 42-8**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Nitrate-N	H	1	<b>41.3</b>	<b>41.3</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273580 - 42-8**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

*continued . . .*

*sample 273580 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2030</b>	<b>2030</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273580 - 42-8**

Laboratory: Lubbock  
 Analysis: TKN  
 QC Batch: 83825  
 Prep Batch: 71104

Analytical Method: E 351.3  
 Date Analyzed: 2011-08-09  
 Sample Preparation: 2011-08-09

Prep Method: N/A  
 Analyzed By: AH  
 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.38</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273581 - 42-10**

Laboratory: El Paso  
 Analysis: Chloride (IC)  
 QC Batch: 83961  
 Prep Batch: 71291

Analytical Method: E 300.0  
 Date Analyzed: 2011-08-09  
 Sample Preparation: 2011-08-09

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>469</b>	<b>469</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273581 - 42-10**

Laboratory: El Paso  
 Analysis: NO3 (IC)  
 QC Batch: 83961  
 Prep Batch: 71291

Analytical Method: E 300.0  
 Date Analyzed: 2011-08-09  
 Sample Preparation: 2011-08-09

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR



Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273581 - 42-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>1540</b>	<b>1540</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273581 - 42-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83825 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71104 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273582 - 42-11**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
 Prep Batch: 71291 Sample Preparation: 2011-08-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>308</b>	<b>308</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273582 - 42-11**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
 Prep Batch: 71291 Sample Preparation: 2011-08-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H	1	<b>3.07</b>	<b>3.07</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273582 - 42-11**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1160</b>	<b>1160</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273582 - 42-11**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83825 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71104 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273583 - 42-12**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
 Prep Batch: 71291 Sample Preparation: 2011-08-09 Prepared By: JR

*continued ...*

*sample 273583 continued ...*

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>331</b>	<b>331</b>	<5.00	mg/L	10	5.00	2.5	0.5

**Sample: 273583 - 42-12**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
 Prep Batch: 71291 Sample Preparation: 2011-08-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H,U	1	<0.100	<0.500	<0.100	mg/L	1	0.100	0.5	0.1

**Sample: 273583 - 42-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83752 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71134 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1340</b>	<b>1340</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273583 - 42-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83825 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71104 Sample Preparation: 2011-08-09 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17



**Sample: 273584 - 42-13**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
 Prep Batch: 71291 Sample Preparation: 2011-08-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1900</b>	<b>1900</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273584 - 42-13**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
 Prep Batch: 71291 Sample Preparation: 2011-08-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>106</b>	<b>106</b>	<5.00	mg/L	50	5.00	0.5	0.1

**Sample: 273584 - 42-13**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3280</b>	<b>3280</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273584 - 42-13**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83825 Date Analyzed: 2011-08-09 Analyzed By: AH  
 Prep Batch: 71104 Sample Preparation: 2011-08-09 Prepared By: AH

*continued ...*

sample 273584 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83752  
Prep Batch: 71134Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83757  
Prep Batch: 71139Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83757  
Prep Batch: 71139Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 83767  
Prep Batch: 71143Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09Analyzed By: MD  
Prepared By: MD



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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

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**Method Blank (1)**QC Batch: 83825  
Prep Batch: 71104Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09Analyzed By: AH  
Prepared By: AH

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

---

**Method Blank (1)**QC Batch: 83958  
Prep Batch: 71288Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**QC Batch: 83958  
Prep Batch: 71288Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Method Blank (1)**QC Batch: 83961  
Prep Batch: 71291Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09Analyzed By: JR  
Prepared By: JR



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83752  
Prep Batch: 71134Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83757  
Prep Batch: 71139Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.4	mg/L	1	25.0	<0.500	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	25.3	mg/L	1	25.0	<0.500	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83757  
Prep Batch: 71139Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.06	mg/L	1	5.00	<0.100	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.05	mg/L	1	5.00	<0.100	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83767  
Prep Batch: 71143

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	948	mg/L	1	1000	<5.00	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	983	mg/L	1	1000	<5.00	98	90 - 110	4	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83825  
Prep Batch: 71104

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	47.2	mg/L	1	50.0	<2.17	94	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	47.9	mg/L	1	50.0	<2.17	96	68.6 - 108	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83958  
Prep Batch: 71288

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 83958  
Prep Batch: 71288

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.86	mg/L	1	5.00	<0.100	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.87	mg/L	1	5.00	<0.100	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 83961  
Prep Batch: 71291

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.5	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.5	mg/L	1	25.0	<0.500	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**QC Batch: 83961  
Prep Batch: 71291Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.89	mg/L	1	5.00	<0.100	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.89	mg/L	1	5.00	<0.100	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273578QC Batch: 83757  
Prep Batch: 71139Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1860	mg/L	55.6	1390	424	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1860	mg/L	55.6	1390	424	103	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273578QC Batch: 83757  
Prep Batch: 71139Date Analyzed: 2011-08-06  
QC Preparation: 2011-08-06Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	306	mg/L	55.6	278	20.5	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	306	mg/L	55.6	278	20.5	103	90 - 110	0	20



Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273691

QC Batch: 83825  
Prep Batch: 71104

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.5	mg/L	1	50.0	<2.17	89	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.5	mg/L	1	50.0	<2.17	89	53.2 - 117	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273580

QC Batch: 83958  
Prep Batch: 71288

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1660	mg/L	55.6	1390	253	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1650	mg/L	55.6	1390	253	100	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273580

QC Batch: 83958  
Prep Batch: 71288

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	318	mg/L	55.6	278	41.3	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	315	mg/L	55.6	278	41.3	98	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273582

QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
Prep Batch: 71291 QC Preparation: 2011-08-09 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1730	mg/L	55.6	1390	308	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1730	mg/L	55.6	1390	308	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273582

QC Batch: 83961 Date Analyzed: 2011-08-09 Analyzed By: JR  
Prep Batch: 71291 QC Preparation: 2011-08-09 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	276	mg/L	55.6	278	<5.56	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	276	mg/L	55.6	278	<5.56	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 83757

Date Analyzed: 2011-08-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-08-06

### Standard (CCV-1)

QC Batch: 83757

Date Analyzed: 2011-08-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2011-08-06

### Standard (CCV-2)

QC Batch: 83757

Date Analyzed: 2011-08-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2011-08-06

### Standard (CCV-2)

QC Batch: 83757

Date Analyzed: 2011-08-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2011-08-06





Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2011-08-10

**Standard (CCV-2)**

QC Batch: 83958

Date Analyzed: 2011-08-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2011-08-10

**Standard (CCV-1)**

QC Batch: 83961

Date Analyzed: 2011-08-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2011-08-09

**Standard (CCV-1)**

QC Batch: 83961

Date Analyzed: 2011-08-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2011-08-09

**Standard (CCV-2)**

QC Batch: 83961

Date Analyzed: 2011-08-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2011-08-09

**Standard (CCV-2)**

QC Batch: 83961

Date Analyzed: 2011-08-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2011-08-09



---

# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

# 11080328

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

**TraceAnalysis, Inc.**

155 McCutcheon, Ste. H El Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Page 1 of 2  
**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
Contact Person: Victor Ayala  
E-mail: vayala@dhpump.com

Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail:   
vayala@dhpump.com

Invoice to (if different from above): Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
Project #:   
Project Name: Dominguez Dairy #2  
Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	Turn Around Time	Hold	
				WATER	AIR	SOIL	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH					ICE
273578-1	42-2	1	500ml	X				X					8-2-11	12:50		
↓	-2	1	500ml	X				X					8-2-11	12:50		
	42-3	1	500ml	X				X								
	42-3	1	500ml	X				X								
273579-1	42-6	1	500ml	X				X					8-2-11	10:54		
↓	-2	1	500ml	X				X						10:54		
	42-7	1	500ml	X				X								
	42-7	1	500ml	X				X								
273580-1	42-8	1	500ml	X				X					8-2-11	13:30		
↓	-2	1	500ml	X				X					8-2-11	13:30		
	42-9	1	500ml	X				X								
	42-9	1	500ml	X				X								
273581-1	42-10	1	500ml	X				X					8-2-11	9:48		
↓	-2	1	500ml	X				X					8-2-11	9:48		
	42-11	1	500ml	X				X					8-2-11	8:47		
↓	-2	1	500ml	X				X					8-2-11	8:47		

LAB Order ID # \_\_\_\_\_

**ANALYSIS REQUEST**

TX 1005 Extended (C35)  
TPH 418.1 / TX1005  
BTEX 8021B/602  
MTBE 8021B/602

PAH 8270 (Low Level Analysis)  
PAH 8270C  
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7  
Nitrates/Nitrite EPA 353.5 modified  
Total Kjeldahl Nitrogen SM 4500 NORG C  
Chloride EPA 300.0  
Total Dissolved Solids SM 2540 C MOD

Relinquished By: *[Signature]* Date: 8-2-11 Time: 16:20  
Relinquished By: *[Signature]* Date: 8/3/11 Time: 1700

Received By: *[Signature]* Date: 8/2/11 Time: 16:20  
Received By: *[Signature]* Date: 8/4/11 Time: 9:30

Lab Use Only  
Intact  N  
Headspace Y  N  
Temp *[initials]*  
Log-in Review *[initials]*

Remarks: *cl, NO3, TDS dominating*

Dry Weight Basis Required  
TRRP Report Required

#1080328

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

**TraceAnalysis, Inc.**

155 McCutcheon, Ste. H  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: \_\_\_\_\_  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln., El Paso, Texas 79907  
Contact Person: \_\_\_\_\_  
Victor Ayala

Phone #: 915-859-8150  
Cell #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
E-mail: vayala@dhpump.com

Project Name: \_\_\_\_\_  
Project #: \_\_\_\_\_  
Project Location (including state): \_\_\_\_\_  
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

Project Name: \_\_\_\_\_  
Project #: \_\_\_\_\_  
Project Location (including state): \_\_\_\_\_  
Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

Sampler Signature: \_\_\_\_\_

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME
273583-1	42-12	1	500ml	X						X				8-2-11	9:20
273584-1	42-13	1	500ml	X						X				9:20	
273584-1	42-13	1	500ml	X						X				12:13	
273584-2	Lagoon-42	1	500ml	X						X				8-2-11	12:13
273584-2	Lagoon-42	1	500ml	X						X					

Relinquished By: \_\_\_\_\_ Date: 8-2-11 Time: 16:20  
Received By: \_\_\_\_\_ Date: 8/2/11 Time: 16:20

Relinquished By: \_\_\_\_\_ Date: 8/3/11 Time: 1700  
Received By: \_\_\_\_\_ Date: 8/4/11 Time: 9:20

Lab Use Only  
Intact  / N  
Headspace  / N  
Temp. Ice  / N  
Log-in Review  / N

Remarks: \_\_\_\_\_  
Cl, NO<sub>3</sub>, TDS done in P

Dry Weight Basis Required  
TRRP Report Required





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Isaac Dominguez  
Dominguez Dairy #1  
13950 Stern Drive  
P.O. Box 21  
Mesquite, NM, 88048

Report Date: August 17, 2011

Work Order: 11080415



DP: 624  
Project Location: 13950 Stern Dr., Mesquite, NM  
Project Name: Dominguez Dairy #1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273665	624-01	water	2011-08-03	11:08	2011-08-03
273666	624-02	water	2011-08-03	09:50	2011-08-03
273667	624-04	water	2011-08-03	11:16	2011-08-03
273668	624-05	water	2011-08-03	12:04	2011-08-03
273669	624-06	water	2011-08-03	10:49	2011-08-03
273670	624-07	water	2011-08-03	10:25	2011-08-03
273671	Lagoon 624	water	2011-08-03	12:20	2011-08-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 27 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2011-08-03 and assigned to work order 11080415. Samples for work order 11080415 were received intact at a temperature of 0.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71288	2011-08-10 at 19:35	83958	2011-08-10 at 19:35
Chloride (IC)	E 300.0	71290	2011-08-10 at 02:00	83960	2011-08-10 at 02:00
NO3 (IC)	E 300.0	71288	2011-08-10 at 19:35	83958	2011-08-10 at 19:35
NO3 (IC)	E 300.0	71290	2011-08-10 at 02:00	83960	2011-08-10 at 02:00
NO3 (IC)	E 300.0	71291	2011-08-09 at 21:21	83961	2011-08-09 at 21:21
TDS	SM 2540C	71143	2011-08-09 at 15:20	83767	2011-08-09 at 15:20
TDS	SM 2540C	71168	2011-08-10 at 15:40	83798	2011-08-10 at 15:40
TKN	E 351.3	71141	2011-08-10 at 11:39	83828	2011-08-12 at 13:21

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080415 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 273665 - 624-01

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1580</b>	<b>1580</b>	<25.0	mg/L	50	25.0	2.5	0.5

## Sample: 273665 - 624-01

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>10.7</b>	<b>10.7</b>	<0.500	mg/L	5	0.500	0.5	0.1

## Sample: 273665 - 624-01

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3970</b>	<b>3970</b>	<5.00	mg/L	1	5.00	5	5

## Sample: 273665 - 624-01

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH



Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273666 - 624-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1290</b>	<b>1290</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273666 - 624-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>12.2</b>	<b>12.2</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273666 - 624-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3600</b>	<b>3600</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273666 - 624-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273667 - 624-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>478</b>	<b>478</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273667 - 624-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71290 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H,J	1	<b>1.84</b>	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273667 - 624-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

*continued . . .*

*sample 273667 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2760</b>	<b>2760</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273667 - 624-04**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 83828

Prep Batch: 71141

Analytical Method: E 351.3

Date Analyzed: 2011-08-12

Sample Preparation: 2011-08-10

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273668 - 624-05**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 83958

Prep Batch: 71288

Analytical Method: E 300.0

Date Analyzed: 2011-08-10

Sample Preparation: 2011-08-10

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1080</b>	<b>1080</b>	<2.50	mg/L	5	2.50	2.5	0.5

**Sample: 273668 - 624-05**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 83961

Prep Batch: 71291

Analytical Method: E 300.0

Date Analyzed: 2011-08-09

Sample Preparation: 2011-08-09

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H	1	<b>3.34</b>	<b>3.34</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273668 - 624-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1940</b>	<b>1940</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273668 - 624-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273669 - 624-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1080</b>	<b>1080</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273669 - 624-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	29.8	29.8	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273669 - 624-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3240	3240	<5.00	mg/L	1	5.00	5	5

**Sample: 273669 - 624-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273670 - 624-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

*continued ...*

*sample 273670 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>473</b>	<b>473</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273670 - 624-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H	1	<b>8.01</b>	<b>8.01</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273670 - 624-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 Sample Preparation: 2011-08-09 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1600</b>	<b>1600</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273670 - 624-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273671 - Lagoon 624**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>3940</b>	<b>3940</b>	<50.0	mg/L	100	50.0	2.5	0.5

**Sample: 273671 - Lagoon 624**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR  
 Prep Batch: 71288 Sample Preparation: 2011-08-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273671 - Lagoon 624**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83798 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71168 Sample Preparation: 2011-08-10 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>17800</b>	<b>17800</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273671 - Lagoon 624**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83828 Date Analyzed: 2011-08-12 Analyzed By: AH  
 Prep Batch: 71141 Sample Preparation: 2011-08-10 Prepared By: AH

*continued ...*



*sample 273671 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>63.6</b>	<b>63.6</b>	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83767  
Prep Batch: 71143Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83798  
Prep Batch: 71168Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83828  
Prep Batch: 71141Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83958  
Prep Batch: 71288Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**QC Batch: 83958  
Prep Batch: 71288Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Method Blank (1)**QC Batch: 83960  
Prep Batch: 71290Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**QC Batch: 83960  
Prep Batch: 71290Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Method Blank (1)**QC Batch: 83961  
Prep Batch: 71291Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

**Duplicate (1)** Duplicated Sample: 273668

QC Batch: 83767 Date Analyzed: 2011-08-09 Analyzed By: MD  
 Prep Batch: 71143 QC Preparation: 2011-08-09 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1920	1940	mg/L	1	1	10

**Duplicate (1)** Duplicated Sample: 273675

QC Batch: 83798 Date Analyzed: 2011-08-10 Analyzed By: MD  
 Prep Batch: 71168 QC Preparation: 2011-08-10 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2780	2630	mg/L	1	6	10



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83767  
Prep Batch: 71143Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	948	mg/L	1	1000	<5.00	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Dissolved Solids		1	983	mg/L	1	1000	<5.00	98	90 - 110	4	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83798  
Prep Batch: 71168Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	988	mg/L	1	1000	<5.00	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Dissolved Solids		1	986	mg/L	1	1000	<5.00	99	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83828  
Prep Batch: 71141Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	39.5	mg/L	1	50.0	<2.17	79	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	48.0	mg/L	1	50.0	<2.17	96	68.6 - 108	19	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83958  
Prep Batch: 71288

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83958  
Prep Batch: 71288

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.86	mg/L	1	5.00	<0.100	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.87	mg/L	1	5.00	<0.100	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.6	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1	24.6	mg/L	1	25.0	<0.500	98	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.91	mg/L	1	5.00	<0.100	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.90	mg/L	1	5.00	<0.100	98	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 83961  
Prep Batch: 71291

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.89	mg/L	1	5.00	<0.100	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.89	mg/L	1	5.00	<0.100	98	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273672QC Batch: 83828  
Prep Batch: 71141Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-10Analyzed By: AH  
Prepared By: AH

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	37.1	mg/L	1	50.0	6.44	61	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	39.5	mg/L	1	50.0	6.44	66	53.2 - 117	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273580QC Batch: 83958  
Prep Batch: 71288Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1660	mg/L	55.6	1390	253	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1650	mg/L	55.6	1390	253	100	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273580QC Batch: 83958  
Prep Batch: 71288Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	318	mg/L	55.6	278	41.3	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	315	mg/L	55.6	278	41.3	98	90 - 110	1	20



Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273667

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1930	mg/L	55.6	1390	478	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1930	mg/L	55.6	1390	478	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273667

QC Batch: 83960  
Prep Batch: 71290

Date Analyzed: 2011-08-10  
QC Preparation: 2011-08-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	274	mg/L	55.6	278	<5.56	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	275	mg/L	55.6	278	<5.56	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273582

QC Batch: 83961  
Prep Batch: 71291

Date Analyzed: 2011-08-09  
QC Preparation: 2011-08-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	276	mg/L	55.6	278	<5.56	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	276	mg/L	55.6	278	<5.56	98	90 - 110	0	20

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (ICV-1)

QC Batch: 83828

Date Analyzed: 2011-08-12

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.28	86	85 - 115	2011-08-12

### Standard (CCV-1)

QC Batch: 83828

Date Analyzed: 2011-08-12

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.60	112	85 - 115	2011-08-12

### Standard (CCV-1)

QC Batch: 83958

Date Analyzed: 2011-08-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2011-08-10

### Standard (CCV-1)

QC Batch: 83958

Date Analyzed: 2011-08-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2011-08-10

**Standard (CCV-2)**

QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2011-08-10

**Standard (CCV-2)**

QC Batch: 83958 Date Analyzed: 2011-08-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2011-08-10

**Standard (CCV-1)**

QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2011-08-10

**Standard (CCV-1)**

QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2011-08-10

**Standard (CCV-2)**

QC Batch: 83960 Date Analyzed: 2011-08-10 Analyzed By: JR



Report Date: August 17, 2011

Work Order: 11080415  
Dominguez Dairy #1

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13950 Stern Dr., Mesquite, NM

---

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2011-08-10

---

**Standard (CCV-2)**

QC Batch: 83960

Date Analyzed: 2011-08-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2011-08-10

---

**Standard (CCV-1)**

QC Batch: 83961

Date Analyzed: 2011-08-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2011-08-09

---

**Standard (CCV-2)**

QC Batch: 83961

Date Analyzed: 2011-08-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2011-08-09

---

---

# Appendix

## Laboratory Certifications

	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

#-11080415

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H El Paso, TX 79932  
 Tel (915) 585-3443  
 Fax (915) 585-4944

Company Name: Phone #: 915-859-8150  
 D&H Petroleum & Environmental Services Cell #:   
 Address: (Street, City, Zip) Fax #:   
 1221 Tower Trail Ln, El Paso TX 79907 E-mail: vajala@dhpump.com  
 Contact Person:   
 Victor Ayala

Project Name: Dominguez Dairy #1  
 Dominguez Dairy #1  
 Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM  
 Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM  
 Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		Turn Around Time	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE			DATE
273665-1	624-01	1	500 ml	X				X					8-3-11	11:08		
↓ -2	624-01	1	500ml	X				X					8-3-11	11:08	X	
273666-1	624-02	1	500ml	X				X					8-3-11	9:50	X	
↓ -2	624-02	1	500ml	X				X					8-3-11	9:50	X	
273667-1	624-04	1	500ml	X				X					8/3/11	11:16	X	
↓ -2	624-04	1	500ml	X				X					8/3/11	11:16	X	
273668-1	624-05	1	500ml	X				X					8/3/11	12:04	X	
↓ -2	624-05	1	500ml	X				X					8/3/11	12:04	X	
273669-1	624-06	1	500ml	X				X					8/3/11	10:49	X	
↓ -2	624-06	1	500ml	X				X					8/3/11	10:49	X	
273670-1	624-07	1	500ml	X				X					8/3/11	10:25	X	
↓ -2	624-07	1	500ml	X				X					8/3/11	10:25	X	
624-08		1	500ml	X				X							X	
624-08		1	500ml	X				X							X	
273671-1	Lagoon 624	1	500ml	X				X					8/3/11	12:20	X	
↓ -2	Lagoon 624	1	500ml	X				X					8/3/11	12:20	X	

ANALYSIS REQUEST

TPH 418.1 / TX1005  
 TX 1005 Extended (C35)  
 PAH 8270C  
 PAH 8270 (Low Level Analysis)  
 Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7  
 Nitrates EPA 300  
 TKN SM 4500 NORG C  
 Chloride EPA 300  
 Total Dissolved Solids SM 2540 C MOD

Lab Use Only  
 Intact (Y/N)  Y /  N  
 Headspace (Y/N)  Y /  N  
 Temp Rec  1009-11  
 Log-in Review

Received By: *[Signature]* Date: 8/3/11 Time: 16:25  
 Relinquished By: *[Signature]* Date: 8-3-11 Time: 16:25  
 Thorsten Meinold  
 Relinquished By: *[Signature]* Date: 8/4/11 Time: 1700

Remarks: *Cl, NO3, TP5 domin in P*  
*4.2.13.8*  
 Dry Weight Basis Required  
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report (Corrected Report)

Linda Armstrong  
Dona Ana Dairies

Report Date: August 22, 2011

P.O. Box 10  
Mesquite, NM, 88048

Work Order: 11072117



Project Location: Various Dairies, Dona Ana Co., NM  
Project Name: Dona Ana Dairies Consortium

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
272412	DAD-01	water	2011-07-20	15:00	2011-07-20
272413	DAD-02	water	2011-07-20	14:08	2011-07-20
272414	DAD-03	water	2011-07-20	14:19	2011-07-20
272415	DAD-04	water	2011-07-20	13:47	2011-07-20
272416	DAD-05	water	2011-07-20	13:19	2011-07-20
272417	DAD-06	water	2011-07-20	12:49	2011-07-20
272418	DAD-07	water	2011-07-20	11:55	2011-07-20
272419	DAD-08	water	2011-07-20	12:43	2011-07-20
272420	DAD-09	water	2011-07-20	10:27	2011-07-20
272421	DAD-10	water	2011-07-20	09:42	2011-07-20

### Report Corrections (Work Order 11072117)

- Corrected CI 272416. 8/22/11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.



This report consists of a total of 32 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, prominent initial 'M'.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2011-07-20 and assigned to work order 11072117. Samples for work order 11072117 were received intact at a temperature of 1.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	70981	2011-07-21 at 13:06	83570	2011-07-21 at 13:06
Chloride (IC)	E 300.0	70982	2011-07-21 at 17:45	83571	2011-07-21 at 17:45
Chloride (IC)	E 300.0	70983	2011-07-21 at 22:24	83572	2011-07-21 at 22:24
Chloride (IC)	E 300.0	71391	2011-08-17 at 19:30	84083	2011-08-17 at 19:30
NO3 (IC)	E 300.0	70981	2011-07-21 at 13:06	83570	2011-07-21 at 13:06
NO3 (IC)	E 300.0	70982	2011-07-21 at 17:45	83571	2011-07-21 at 17:45
NO3 (IC)	E 300.0	70983	2011-07-21 at 22:24	83572	2011-07-21 at 22:24
TDS	SM 2540C	70783	2011-07-27 at 12:30	83339	2011-07-27 at 12:30
TKN	E 351.3	70786	2011-07-28 at 10:47	83398	2011-07-28 at 12:55

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11072117 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

**Sample: 272412 - DAD-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70981 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>426</b>	<b>426</b>	<5.00	mg/L	10	5.00	2.5	0.5

**Sample: 272412 - DAD-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70981 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>12.0</b>	<b>12.0</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272412 - DAD-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>1650</b>	<b>1650</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272412 - DAD-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Report Date: August 22, 2011

Work Order: 11072117  
 Dona Ana Dairies Consortium

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 Various Dairies, Dona Ana Co., NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.38</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272413 - DAD-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70981 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>374</b>	<b>374</b>	<5.00	mg/L	10	5.00	2.5	0.5

**Sample: 272413 - DAD-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70981 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>7.66</b>	<b>7.66</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272413 - DAD-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>1750</b>	<b>1750</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272413 - DAD-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272414 - DAD-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70981 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1630</b>	<b>1630</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272414 - DAD-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70981 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272414 - DAD-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

*continued . . .*

*sample 272414 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4720</b>	<b>4720</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272414 - DAD-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 83398

Prep Batch: 70786

Analytical Method: E 351.3

Date Analyzed: 2011-07-28

Sample Preparation: 2011-07-28

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.22</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272415 - DAD-04**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 83570

Prep Batch: 70981

Analytical Method: E 300.0

Date Analyzed: 2011-07-21

Sample Preparation: 2011-07-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>670</b>	<b>670</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272415 - DAD-04**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 83571

Prep Batch: 70982

Analytical Method: E 300.0

Date Analyzed: 2011-07-21

Sample Preparation: 2011-07-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272415 - DAD-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2540</b>	<b>2540</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272415 - DAD-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272416 - DAD-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84083 Date Analyzed: 2011-08-17 Analyzed By: JR  
 Prep Batch: 71391 Sample Preparation: 2011-08-17 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>599</b>	<b>599</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272416 - DAD-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83571 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70982 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272416 - DAD-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2460</b>	<b>2460</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272416 - DAD-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>5.04</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272417 - DAD-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83571 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70982 Sample Preparation: 2011-07-21 Prepared By: JR

*continued ...*

*sample 272417 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>358</b>	<b>358</b>	<5.00	mg/L	10	5.00	2.5	0.5

**Sample: 272417 - DAD-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83571 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70982 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>18.0</b>	<b>18.0</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272417 - DAD-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1370</b>	<b>1370</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272417 - DAD-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.64</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272418 - DAD-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83571 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70982 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>554</b>	<b>554</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272418 - DAD-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83572 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70983 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>4.67</b>	<b>4.67</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272418 - DAD-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1880</b>	<b>1880</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272418 - DAD-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

*continued ...*



*sample 272418 continued ...*

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.80</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272419 - DAD-08**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 83572                              Date Analyzed: 2011-07-21                      Analyzed By: JR  
 Prep Batch: 70983                              Sample Preparation: 2011-07-21                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1320</b>	<b>1320</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272419 - DAD-08**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 83572                              Date Analyzed: 2011-07-21                              Analyzed By: JR  
 Prep Batch: 70983                              Sample Preparation: 2011-07-21                              Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>3.36</b>	<b>3.36</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272419 - DAD-08**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 83339                              Date Analyzed: 2011-07-27                              Analyzed By: MD  
 Prep Batch: 70783                              Sample Preparation: 2011-07-27                              Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3060</b>	<b>3060</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272419 - DAD-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.78</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272420 - DAD-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83572 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70983 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>727</b>	<b>727</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272420 - DAD-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83572 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70983 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>70.2</b>	<b>70.2</b>	<5.00	mg/L	50	5.00	0.5	0.1

**Sample: 272420 - DAD-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2500	2500	<5.00	mg/L	1	5.00	5	5

**Sample: 272420 - DAD-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272421 - DAD-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83572 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70983 Sample Preparation: 2011-07-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	383	383	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272421 - DAD-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83572 Date Analyzed: 2011-07-21 Analyzed By: JR  
 Prep Batch: 70983 Sample Preparation: 2011-07-21 Prepared By: JR

*continued ...*

*sample 272421 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	<b>2.29</b>	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 272421 - DAD-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83339 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 70783 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1290</b>	<b>1290</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272421 - DAD-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83398 Date Analyzed: 2011-07-28 Analyzed By: AH  
 Prep Batch: 70786 Sample Preparation: 2011-07-28 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17



## Method Blanks

### Method Blank (1)

QC Batch: 83339  
Prep Batch: 70783Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83398  
Prep Batch: 70786Date Analyzed: 2011-07-28  
QC Preparation: 2011-07-28Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83570  
Prep Batch: 70981Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83570  
Prep Batch: 70981Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD

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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Method Blank (1)**QC Batch: 83571  
Prep Batch: 70982Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD

---

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**QC Batch: 83571  
Prep Batch: 70982Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD

---

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Method Blank (1)**QC Batch: 83572  
Prep Batch: 70983Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD

---

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**QC Batch: 83572  
Prep Batch: 70983Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83339  
Prep Batch: 70783Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	954	mg/L	1	1000	<5.00	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	929	mg/L	1	1000	<5.00	93	90 - 110	3	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83398  
Prep Batch: 70786Date Analyzed: 2011-07-28  
QC Preparation: 2011-07-28Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	45.4	mg/L	1	50.0	<2.17	91	73.2 - 109

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	42.0	mg/L	1	50.0	<2.17	84	73.2 - 109	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83570  
Prep Batch: 70981Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.72	mg/L	1	5.00	<0.100	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.70	mg/L	1	5.00	<0.100	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 83572  
Prep Batch: 70983

Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.9	mg/L	1	25.0	<0.500	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	23.8	mg/L	1	25.0	<0.500	95	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 83572  
Prep Batch: 70983

Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.82	mg/L	1	5.00	<0.100	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.80	mg/L	1	5.00	<0.100	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**QC Batch: 84083  
Prep Batch: 71391Date Analyzed: 2011-08-17  
QC Preparation: 2011-08-17Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.5	mg/L	1	25.0	<0.500	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	25.4	mg/L	1	25.0	<0.500	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272421QC Batch: 83398  
Prep Batch: 70786Date Analyzed: 2011-07-28  
QC Preparation: 2011-07-28Analyzed By: AH  
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	50.4	mg/L	1	50.0	<2.17	101	65.9 - 104

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<2.17	85	65.9 - 104	16	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272414QC Batch: 83570  
Prep Batch: 70981Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21Analyzed By: JR  
Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3300	mg/L	62.5	1560	1630	107	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	3290	mg/L	62.5	1560	1630	106	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272414

QC Batch: 83570  
Prep Batch: 70981

Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21

Analyzed By: JR  
Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	62.5	312	<6.25	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	301	mg/L	62.5	312	<6.25	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272417

QC Batch: 83571  
Prep Batch: 70982

Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21

Analyzed By: JR  
Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1930	mg/L	62.5	1560	358	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1930	mg/L	62.5	1560	358	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272417

QC Batch: 83571  
Prep Batch: 70982

Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21

Analyzed By: JR  
Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	327	mg/L	62.5	312	18	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	326	mg/L	62.5	312	18	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272420

QC Batch: 83572  
Prep Batch: 70983

Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21

Analyzed By: JR  
Prepared By: MD

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Chloride		1	2330	mg/L	62.5	1560	727	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2330	mg/L	62.5	1560	727	103	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272420

QC Batch: 83572  
Prep Batch: 70983

Date Analyzed: 2011-07-21  
QC Preparation: 2011-07-21

Analyzed By: JR  
Prepared By: MD

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	382	mg/L	62.5	312	70.2	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	383	mg/L	62.5	312	70.2	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 274052

QC Batch: 84083  
Prep Batch: 71391

Date Analyzed: 2011-08-17  
QC Preparation: 2011-08-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	31.9	mg/L	1.25	31.2	<0.625	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	31.6	mg/L	1.25	31.2	<0.625	101	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (ICV-1)

QC Batch: 83398

Date Analyzed: 2011-07-28

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.31	86	85 - 115	2011-07-28

### Standard (CCV-1)

QC Batch: 83398

Date Analyzed: 2011-07-28

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.12	102	85 - 115	2011-07-28

### Standard (CCV-1)

QC Batch: 83570

Date Analyzed: 2011-07-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2011-07-21

### Standard (CCV-1)

QC Batch: 83570

Date Analyzed: 2011-07-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.85	97	90 - 110	2011-07-21

**Standard (CCV-2)**

QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-07-21

**Standard (CCV-2)**

QC Batch: 83570 Date Analyzed: 2011-07-21 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2011-07-21

**Standard (CCV-1)**

QC Batch: 83571 Date Analyzed: 2011-07-21 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-07-21

**Standard (CCV-1)**

QC Batch: 83571 Date Analyzed: 2011-07-21 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2011-07-21

**Standard (CCV-2)**

QC Batch: 83571 Date Analyzed: 2011-07-21 Analyzed By: JR





**Standard (CCV-2)**

QC Batch: 83572

Date Analyzed: 2011-07-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2011-07-21

**Standard (CCV-1)**

QC Batch: 84083

Date Analyzed: 2011-08-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2011-08-17

**Standard (CCV-2)**

QC Batch: 84083

Date Analyzed: 2011-08-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2011-08-17

---

## Appendix

### Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

### Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





# 11072117

**Company Name:** D&H Petroleum & Environmental Services  
**Address:** (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
**Contact Person:** Victor Ayala  
**Phone #:** 915-859-8150  
**Cell #:** \_\_\_\_\_  
**Fax #:** \_\_\_\_\_  
**E-mail:** vajala@dhpump.com

**Project Name:** Dona Ana Dairies Consortium  
**Project #:** \_\_\_\_\_  
**Project Location (including state):** Various Dairies, Dona Ana County, NM  
**Sampler Signature:** \_\_\_\_\_  
**Invoice to (if different from above):** Dona Ana Dairies, PO Box 10, Mesquite, NM 88048

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME
272420-1	DAD-09	1	500 ml	X				X					7-20-11	10:27
↓ -2	DAD-09	1	500ml	X				X					-1	10:27
272421-1	DAD-10	1	500ml	X				X					7-20-11	9:42
↓ -2	DAD-10	1	500ml	X					X				7-20-11	9:42

**ANALYSIS REQUEST**

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	
Hold	

**Remarks:** NO<sub>3</sub>, Cl, TDS done in 8

**Lab Use Only**

Integrity / N	
Headspace Y / N	
Temp Ice off	
Log-in Review	

Relinquished By: \_\_\_\_\_ Date: 7/20/11 Time: 15:50  
 Relinquished By: Thorsten Meinus Date: 7/20/11 Time: 17:00

DRY Weight Basis Required  
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

John DeRuyter  
Del Norte Dairy, LLC  
12560 Stern Drive  
P. O. Box 10  
Mesquite, NM, 88048

Report Date: August 19, 2011

Work Order: 11080515



Project Location: 12560 Stern Dr., Mesquite, NM  
Project Name: Del Norte Dairy  
Project Number: DP-126

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273769	126-5	water	2011-08-04	10:14	2011-08-04
273770	126-7	water	2011-08-04	09:28	2011-08-04
273771	126-9	water	2011-08-04	08:40	2011-08-04
273772	126-12	water	2011-08-04	10:55	2011-08-04
273779	126-13	water	2011-08-04	09:43	2011-08-04
273780	Lagoon	water	2011-08-04	09:40	2011-08-04

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Del Norte Dairy were received by TraceAnalysis, Inc. on 2011-08-04 and assigned to work order 11080515. Samples for work order 11080515 were received intact at a temperature of 1.5 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71370	2011-08-11 at 22:11	84058	2011-08-11 at 22:11
Chloride (IC)	E 300.0	71371	2011-08-12 at 18:09	84059	2011-08-12 at 18:09
NO3 (IC)	E 300.0	71370	2011-08-11 at 22:11	84058	2011-08-11 at 22:11
NO3 (IC)	E 300.0	71371	2011-08-12 at 18:09	84059	2011-08-12 at 18:09
TDS	SM 2540C	71189	2011-08-11 at 15:40	83827	2011-08-11 at 15:40
TDS	SM 2540C	71282	2011-08-15 at 15:19	83949	2011-08-15 at 15:19
TKN	E 351.3	71194	2011-08-12 at 17:46	83879	2011-08-15 at 15:06

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080515 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 273769 - 126-5

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>525</b>	<b>525</b>	<25.0	mg/L	50	25.0	2.5	0.5

## Sample: 273769 - 126-5

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H	1	<b>29.5</b>	<b>29.5</b>	<0.500	mg/L	5	0.500	0.5	0.1

## Sample: 273769 - 126-5

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83827 Date Analyzed: 2011-08-11 Analyzed By: MD  
 Prep Batch: 71189 Sample Preparation: 2011-08-11 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2540</b>	<b>2540</b>	<5.00	mg/L	1	5.00	5	5

## Sample: 273769 - 126-5

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
 Prep Batch: 71194 Sample Preparation: 2011-08-12 Prepared By: AH

Report Date: August 19, 2011  
 DP-126

Work Order: 11080515  
 Del Norte Dairy

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 12560 Stern Dr., Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>4.20</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273770 - 126-7**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>666</b>	<b>666</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273770 - 126-7**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>19.1</b>	<b>19.1</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273770 - 126-7**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83827 Date Analyzed: 2011-08-11 Analyzed By: MD  
 Prep Batch: 71189 Sample Preparation: 2011-08-11 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>1410</b>	<b>1410</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273770 - 126-7**



Report Date: August 19, 2011  
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Laboratory: Lubbock  
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
Prep Batch: 71194 Sample Preparation: 2011-08-12 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.24</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273771 - 126-9**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1100</b>	<b>1100</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273771 - 126-9**

Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>3.19</b>	<b>3.19</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273771 - 126-9**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 83827 Date Analyzed: 2011-08-11 Analyzed By: MD  
Prep Batch: 71189 Sample Preparation: 2011-08-11 Prepared By: MD

*continued . . .*

sample 273771 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3180</b>	<b>3180</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273771 - 126-9**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
 Prep Batch: 71194 Sample Preparation: 2011-08-12 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273772 - 126-12**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>449</b>	<b>449</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273772 - 126-12**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 Sample Preparation: 2011-08-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H	1	<b>13.6</b>	<b>13.6</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273772 - 126-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83827 Date Analyzed: 2011-08-11 Analyzed By: MD  
 Prep Batch: 71189 Sample Preparation: 2011-08-11 Prepared By: MD

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2580</b>	<b>2580</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273772 - 126-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
 Prep Batch: 71194 Sample Preparation: 2011-08-12 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273779 - 126-13**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
 Prep Batch: 71371 Sample Preparation: 2011-08-12 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>735</b>	<b>735</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273779 - 126-13**

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DP-126

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Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
Prep Batch: 71371 Sample Preparation: 2011-08-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	21.4	21.4	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273779 - 126-13**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 83949 Date Analyzed: 2011-08-15 Analyzed By: MD  
Prep Batch: 71282 Sample Preparation: 2011-08-15 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids	H	1	2840	2840	<5.00	mg/L	1	5.00	5	5

**Sample: 273779 - 126-13**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
Prep Batch: 71194 Sample Preparation: 2011-08-12 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 273780 - Lagoon**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
Prep Batch: 71371 Sample Preparation: 2011-08-12 Prepared By: JR

*continued ...*



sample 273780 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>635</b>	<b>635</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273780 - Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
 Prep Batch: 71371 Sample Preparation: 2011-08-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273780 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83827 Date Analyzed: 2011-08-11 Analyzed By: MD  
 Prep Batch: 71189 Sample Preparation: 2011-08-11 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>5130</b>	<b>5130</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273780 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
 Prep Batch: 71194 Sample Preparation: 2011-08-12 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>321</b>	<b>321</b>	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83827  
Prep Batch: 71189

Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11

Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83879  
Prep Batch: 71194

Date Analyzed: 2011-08-15  
QC Preparation: 2011-08-12

Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 83949  
Prep Batch: 71282

Date Analyzed: 2011-08-15  
QC Preparation: 2011-08-15

Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 84058  
Prep Batch: 71370

Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11

Analyzed By: JR  
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**

QC Batch: 84058  
Prep Batch: 71370

Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11

Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Method Blank (1)**

QC Batch: 84059  
Prep Batch: 71371

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12

Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**

QC Batch: 84059  
Prep Batch: 71371

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12

Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Duplicate (1)** Duplicated Sample: 273724

QC Batch: 83827  
Prep Batch: 71189

Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11

Analyzed By: MD  
Prepared By: MD

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2400	2200	mg/L	1	9	10

---

**Duplicate (1)** Duplicated Sample: 273779

QC Batch: 83949  
Prep Batch: 71282

Date Analyzed: 2011-08-15  
QC Preparation: 2011-08-15

Analyzed By: MD  
Prepared By: MD

---

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2920	2840	mg/L	1	3	10

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83827  
 Prep Batch: 71189

Date Analyzed: 2011-08-11  
 QC Preparation: 2011-08-11

Analyzed By: MD  
 Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	996	mg/L	1	1000	<5.00	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	956	mg/L	1	1000	<5.00	96	90 - 110	4	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83879  
 Prep Batch: 71194

Date Analyzed: 2011-08-15  
 QC Preparation: 2011-08-12

Analyzed By: AH  
 Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	34.6	mg/L	1	50.0	<2.17	69	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	35.8	mg/L	1	50.0	<2.17	72	68.6 - 108	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83949  
 Prep Batch: 71282

Date Analyzed: 2011-08-15  
 QC Preparation: 2011-08-15

Analyzed By: MD  
 Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	907	mg/L	1	1000	<5.00	91	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.7	mg/L	1	25.0	<0.500	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1	23.6	mg/L	1	25.0	<0.500	94	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 84059  
Prep Batch: 71371

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.73	mg/L	1	5.00	<0.100	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.73	mg/L	1	5.00	<0.100	95	90 - 110	0

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273902

QC Batch: 83879  
Prep Batch: 71194

Date Analyzed: 2011-08-15  
QC Preparation: 2011-08-12

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	36.3	mg/L	1	50.0	<2.17	73	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	36.8	mg/L	1	50.0	<2.17	74	53.2 - 117	1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273724

QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 QC Preparation: 2011-08-11 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1910	mg/L	55.6	1390	503	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1910	mg/L	55.6	1390	503	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273724

QC Batch: 84058 Date Analyzed: 2011-08-11 Analyzed By: JR  
 Prep Batch: 71370 QC Preparation: 2011-08-11 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	379	mg/L	55.6	278	95	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	378	mg/L	55.6	278	95	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273900

QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
 Prep Batch: 71371 QC Preparation: 2011-08-12 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2090	mg/L	55.6	1390	619	106	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2050	mg/L	55.6	1390	619	103	90 - 110	2	20



Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273900

QC Batch: 84059  
Prep Batch: 71371

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	55.6	278	24.7	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	293	mg/L	55.6	278	24.7	96	90 - 110	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-08-12

---

**Standard (CCV-2)**

QC Batch: 84059

Date Analyzed: 2011-08-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2011-08-12

---



## Appendix

### Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

---

### Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

LAB Order ID # 11680515  
 Company Name: D&H Petroleum & Environmental Services  
 Phone #: 915-859-8150  
 Cell #:   
 Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: Victor Ayala  
 Fax #:   
 E-mail: vayala@dhpump.com

Project Name: Daybreak Dairy  
 Project Location (including state): Del Norte Dairy, 12560 Stern Drive, Mesquite, NM  
 Sampler Signature: [Signature]  
 Invoice to (if different from above): John De Ruyter Tina Ayala  
 Del Norte Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE			NONE
126-4		1	500ml	X			X							
273769-1		1	500ml	X			X					8-4-11	10:14	
273769-2		1	500ml	X			X					9:28	9:28	
273770-1		1	500ml	X			X					8:40	8:40	
273771-1		1	500ml	X			X					10:55	10:55	
273771-2		1	500ml	X			X					9:43	9:43	
273772-1		1	500ml	X			X					9:40	9:40	
273772-2		1	500ml	X			X					8-4-11	9:40	
273774-1		1	500ml	X			X							
273774-2		1	500ml	X			X							
273774-1	Lagoon	1	500ml	X			X							
273770-2	Lagoon	1	500ml	X			X							

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	
Nitrates/Nitrite EPA 353.5 modified	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	

Relinquished By: [Signature] Date: 8-4-11 Time: 16:05  
 Received By: [Signature] Date: 8/4/11 Time: 1605

Relinquished By: [Signature] Date: 8/5/11 Time: 1625  
 Received at Laboratory By: [Signature] Date: 8-6-11 Time: 10:00

Lab Use Only  
 Intact  Y /  N  
 Headspace Y / N  
 Temp 16.1.5  Y /  N  
 Log-in Review  Y /  N

Remarks: N3, c1, +TDS done in EP.

(12)

Dry Weight Basis Required   
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

John DeRuyter  
Mountain View Dairy  
13090 Stern Drive  
P.O. Box 345  
Mesquite, NM, 88048

Report Date: August 19, 2011

Work Order: 11080518



DP: 70  
Project Location: 13090 Stern Drive, Mesquite, NM  
Project Name: Mountain View Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
273781	70-02	water	2011-08-04	08:25	2011-08-04

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2011-08-04 and assigned to work order 11080518. Samples for work order 11080518 were received intact at a temperature of 1.5 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71371	2011-08-12 at 18:09	84059	2011-08-12 at 18:09
NO3 (IC)	E 300.0	71371	2011-08-12 at 18:09	84059	2011-08-12 at 18:09
TDS	SM 2540C	71189	2011-08-11 at 15:40	83827	2011-08-11 at 15:40
TKN	E 351.3	71194	2011-08-12 at 17:46	83879	2011-08-15 at 15:06

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080518 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 273781 - 70-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
 Prep Batch: 71371 Sample Preparation: 2011-08-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>798</b>	<b>798</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 273781 - 70-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
 Prep Batch: 71371 Sample Preparation: 2011-08-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>36.8</b>	<b>36.8</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 273781 - 70-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83827 Date Analyzed: 2011-08-11 Analyzed By: MD  
 Prep Batch: 71189 Sample Preparation: 2011-08-11 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3160</b>	<b>3160</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 273781 - 70-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
 Prep Batch: 71194 Sample Preparation: 2011-08-12 Prepared By: AH

---

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>5.04</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

---

## Method Blanks

### Method Blank (1)

QC Batch: 83827  
Prep Batch: 71189Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83879  
Prep Batch: 71194Date Analyzed: 2011-08-15  
QC Preparation: 2011-08-12Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 84059  
Prep Batch: 71371Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 84059  
Prep Batch: 71371Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12Analyzed By: JR  
Prepared By: JR



Report Date: August 19, 2011

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13090 Stern Drive, Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Duplicate (1)** Duplicated Sample: 273724

QC Batch: 83827

Date Analyzed: 2011-08-11

Analyzed By: MD

Prep Batch: 71189

QC Preparation: 2011-08-11

Prepared By: MD

---

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2400	2200	mg/L	1	9	10

---

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83827  
Prep Batch: 71189Date Analyzed: 2011-08-11  
QC Preparation: 2011-08-11Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	996	mg/L	1	1000	<5.00	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	956	mg/L	1	1000	<5.00	96	90 - 110	4	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83879  
Prep Batch: 71194Date Analyzed: 2011-08-15  
QC Preparation: 2011-08-12Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	34.6	mg/L	1	50.0	<2.17	69	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	35.8	mg/L	1	50.0	<2.17	72	68.6 - 108	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 84059  
Prep Batch: 71371Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.7	mg/L	1	25.0	<0.500	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	23.6	mg/L	1	25.0	<0.500	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
Prep Batch: 71371 QC Preparation: 2011-08-12 Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.73	mg/L	1	5.00	<0.100	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.73	mg/L	1	5.00	<0.100	95	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1) Spiked Sample: 273902**

QC Batch: 83879 Date Analyzed: 2011-08-15 Analyzed By: AH  
Prep Batch: 71194 QC Preparation: 2011-08-12 Prepared By: AH

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	36.3	mg/L	1	50.0	<2.17	73	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	36.8	mg/L	1	50.0	<2.17	74	53.2 - 117	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1) Spiked Sample: 273900**

QC Batch: 84059 Date Analyzed: 2011-08-12 Analyzed By: JR  
Prep Batch: 71371 QC Preparation: 2011-08-12 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2090	mg/L	55.6	1390	619	106	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2050	mg/L	55.6	1390	619	103	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 273900

QC Batch: 84059  
Prep Batch: 71371

Date Analyzed: 2011-08-12  
QC Preparation: 2011-08-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	55.6	278	24.7	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	293	mg/L	55.6	278	24.7	96	90 - 110	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



## Calibration Standards

### Standard (ICV-1)

QC Batch: 83879

Date Analyzed: 2011-08-15

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2011-08-15

### Standard (CCV-1)

QC Batch: 83879

Date Analyzed: 2011-08-15

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.62	92	85 - 115	2011-08-15

### Standard (CCV-1)

QC Batch: 84059

Date Analyzed: 2011-08-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2011-08-12

### Standard (CCV-1)

QC Batch: 84059

Date Analyzed: 2011-08-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2011-08-12



---

# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.







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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report (Corrected Report)

Linda Armstrong  
Bright Star Dairy  
13520 Stern Dr.  
P.O. Box 167  
Mesquite, NM, 88048

Report Date: August 22, 2011

Work Order: 11081618



DP: 340  
Project Location: 13520 Stern Dr., El Paso, TX  
Project Name: Bright Star Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
274679	340-2	water	2011-07-22	12:15	2011-07-22

### Report Corrections (Work Order 11081618)

- WO 11081618 replaces WO 11072229. 8/17/11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*



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Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2011-07-22 and assigned to work order 11081618. Samples for work order 11081618 were received intact at a temperature of 1.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71403	2011-07-27 at 00:22	84096	2011-07-22 at 00:22
NO3 (IC)	E 300.0	71403	2011-07-27 at 00:22	84096	2011-07-22 at 00:22
TDS	SM 2540C	71300	2011-07-27 at 15:41	83974	2011-07-27 at 15:41
TKN	E 351.3	71336	2011-08-01 at 10:44	84009	2011-08-01 at 10:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11081618 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

**Sample: 274679 - 340-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71403 Sample Preparation: 2011-07-27 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	<sup>1</sup>	<sub>1</sub>	<b>777</b>	<b>777</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274679 - 340-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71403 Sample Preparation: 2011-07-27 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	<sup>2</sup>	<sub>H 1</sub>	<b>84.8</b>	<b>84.8</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 274679 - 340-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83974 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 71300 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		<sub>1</sub>	<b>2970</b>	<b>2970</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274679 - 340-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84009 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71336 Sample Preparation: 2011-08-01 Prepared By: AH

---

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>7.98</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

---

## Method Blanks

### Method Blank (1)

QC Batch: 83974  
Prep Batch: 71300Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 84009  
Prep Batch: 71336Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

### Method Blank (1)

QC Batch: 84096  
Prep Batch: 71403Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 84096  
Prep Batch: 71403Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27Analyzed By: JR  
Prepared By: JR

Report Date: August 22, 2011

Work Order: 11081618  
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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Duplicate (1)** Duplicated Sample: 274681

QC Batch: 83974

Date Analyzed: 2011-07-27

Analyzed By: MD

Prep Batch: 71300

QC Preparation: 2011-07-27

Prepared By: MD

---

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3460	3330	mg/L	1	4	10

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83974  
Prep Batch: 71300Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	954	mg/L	1	1000	<5.00	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	970	mg/L	1	1000	<5.00	97	90 - 110	2	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 84009  
Prep Batch: 71336Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.3	mg/L	1	50.0	<2.17	93	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	48.6	mg/L	1	50.0	<2.17	97	68.6 - 108	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 84096  
Prep Batch: 71403Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.6	mg/L	1	25.0	<0.500	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	25.6	mg/L	1	25.0	<0.500	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 84096  
Prep Batch: 71403

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.09	mg/L	1	5.00	<0.100	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.08	mg/L	1	5.00	<0.100	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Matrix Spike (MS-1) Spiked Sample: 274679

QC Batch: 84009  
Prep Batch: 71336

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	46.8	mg/L	1	50.0	7.98	78	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.9	mg/L	1	50.0	7.98	74	53.2 - 117	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Matrix Spike (MS-1) Spiked Sample: 274671

QC Batch: 84096  
Prep Batch: 71403

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1950	mg/L	55.6	1390	501	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1950	mg/L	55.6	1390	501	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 274671

QC Batch: 84096  
Prep Batch: 71403

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	317	mg/L	55.6	278	28.7	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	316	mg/L	55.6	278	28.7	103	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (ICV-1)

QC Batch: 84009

Date Analyzed: 2011-08-01

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.35	107	85 - 115	2011-08-01

### Standard (CCV-1)

QC Batch: 84009

Date Analyzed: 2011-08-01

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.49	110	85 - 115	2011-08-01

### Standard (CCV-1)

QC Batch: 84096

Date Analyzed: 2011-07-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2011-07-22

### Standard (CCV-1)

QC Batch: 84096

Date Analyzed: 2011-07-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2011-07-22





---

# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Result Comments

- 1 Sample ID was 272587 under QC batch 83369.
- 2 Sample ID was 272587 under QC batch 83369.

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report (Corrected Report)

Linda Armstrong  
 Bright Star Dairy  
 13520 Stern Dr.  
 P.O. Box 167  
 Mesquite, NM, 88048

Report Date: August 23, 2011

Work Order: 11081617



DP: 340  
 Project Location: 13520 Stern Dr., El Paso, TX  
 Project Name: Bright Star Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
274675	340-1	water	2011-07-25	09:20	2011-07-25
274676	70/86/340	water	2011-07-25	10:46	2011-07-25
274677	86/340	water	2011-07-25	12:23	2011-07-25
274678	Lagoon	water	2011-07-25	08:40	2011-07-25

### Report Corrections (Work Order 11081617)

- WO 11081617 replaces WO 11072607. 8/17/11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2011-07-25 and assigned to work order 11081617. Samples for work order 11081617 were received intact at a temperature of 1.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71406	2011-07-26 at 17:33	84098	2011-07-26 at 17:33
Chloride (IC)	E 300.0	71407	2011-07-26 at 22:12	84099	2011-07-26 at 22:12
NO3 (IC)	E 300.0	71406	2011-07-26 at 17:33	84098	2011-07-26 at 17:33
NO3 (IC)	E 300.0	71407	2011-07-26 at 22:12	84099	2011-07-26 at 22:12
TDS	SM 2540C	71309	2011-08-01 at 15:49	83979	2011-08-01 at 15:49
TKN	E 351.3	71470	2011-08-01 at 10:30	84171	2011-08-01 at 10:44

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11081617 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 274675 - 340-1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84098 Date Analyzed: 2011-07-26 Analyzed By: JR  
 Prep Batch: 71406 Sample Preparation: 2011-07-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	<sup>1</sup>	<sub>1</sub>	<b>747</b>	<b>747</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274675 - 340-1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84098 Date Analyzed: 2011-07-26 Analyzed By: JR  
 Prep Batch: 71406 Sample Preparation: 2011-07-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	<sup>2</sup>	<sub>1</sub>	<b>28.3</b>	<b>28.3</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 274675 - 340-1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83979 Date Analyzed: 2011-08-01 Analyzed By: MD  
 Prep Batch: 71309 Sample Preparation: 2011-08-01 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		<sub>1</sub>	<b>2830</b>	<b>2830</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274675 - 340-1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84171 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71470 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>4.20</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 274676 - 70/86/340**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 84098      Date Analyzed: 2011-07-26      Analyzed By: JR  
 Prep Batch: 71406      Sample Preparation: 2011-07-26      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	3	1	<b>1800</b>	<b>1800</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274676 - 70/86/340**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 84098      Date Analyzed: 2011-07-26      Analyzed By: JR  
 Prep Batch: 71406      Sample Preparation: 2011-07-26      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	4	1	<b>31.0</b>	<b>31.0</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 274676 - 70/86/340**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 83979      Date Analyzed: 2011-08-01      Analyzed By: MD  
 Prep Batch: 71309      Sample Preparation: 2011-08-01      Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>5500</b>	<b>5500</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274676 - 70/86/340**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84171 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71470 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.24</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 274677 - 86/340**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84098 Date Analyzed: 2011-07-26 Analyzed By: JR  
 Prep Batch: 71406 Sample Preparation: 2011-07-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	5	1	<b>582</b>	<b>582</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274677 - 86/340**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84099 Date Analyzed: 2011-07-26 Analyzed By: JR  
 Prep Batch: 71407 Sample Preparation: 2011-07-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	6	1	<b>10.2</b>	<b>10.2</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 274677 - 86/340**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83979 Date Analyzed: 2011-08-01 Analyzed By: MD  
 Prep Batch: 71309 Sample Preparation: 2011-08-01 Prepared By: MD

*continued . . .*



*sample 274677 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2500</b>	<b>2500</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274677 - 86/340**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84171 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71470 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 274678 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84099 Date Analyzed: 2011-07-26 Analyzed By: JR  
 Prep Batch: 71407 Sample Preparation: 2011-07-26 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	7	1	<b>1550</b>	<b>1550</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274678 - Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84099 Date Analyzed: 2011-07-26 Analyzed By: JR  
 Prep Batch: 71407 Sample Preparation: 2011-07-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
Nitrate-N	<sup>8</sup>	u	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 274678 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83979 Date Analyzed: 2011-08-01 Analyzed By: MD  
 Prep Batch: 71309 Sample Preparation: 2011-08-01 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2520</b>	<b>2520</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274678 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84171 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71470 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>190</b>	<b>190</b>	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83979  
Prep Batch: 71309Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 84098  
Prep Batch: 71406Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26Analyzed By: JR  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 84098  
Prep Batch: 71406Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26Analyzed By: JR  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 84099  
Prep Batch: 71407Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26Analyzed By: JR  
Prepared By: MD

---

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

---

**Method Blank (1)**QC Batch: 84099  
Prep Batch: 71407Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26Analyzed By: JR  
Prepared By: MD

---

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

---

**Method Blank (1)**QC Batch: 84171  
Prep Batch: 71470Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: AH  
Prepared By: AH

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

---





Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.70	mg/L	1	5.00	<0.100	94	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 84099  
Prep Batch: 71407

Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Chloride		1	23.9	mg/L	1	25.0	<0.500	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	23.9	mg/L	1	25.0	<0.500	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 84099  
Prep Batch: 71407

Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26

Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.81	mg/L	1	5.00	<0.100	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.81	mg/L	1	5.00	<0.100	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 84171  
Prep Batch: 71470

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	53.6	mg/L	1	50.0	<2.17	107	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	50.7	mg/L	1	50.0	<2.17	101	68.6 - 108	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 274675

QC Batch: 84098  
Prep Batch: 71406

Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26

Analyzed By: JR  
Prepared By: MD

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2340	mg/L	62.5	1560	747	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2340	mg/L	62.5	1560	747	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 274675

QC Batch: 84098  
Prep Batch: 71406

Date Analyzed: 2011-07-26  
QC Preparation: 2011-07-26

Analyzed By: JR  
Prepared By: MD

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	329	mg/L	62.5	312	28.3	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	328	mg/L	62.5	312	28.3	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 274678

QC Batch: 84099 Date Analyzed: 2011-07-26 Analyzed By: JR  
Prep Batch: 71407 QC Preparation: 2011-07-26 Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3170	mg/L	62.5	1560	1550	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	3180	mg/L	62.5	1560	1550	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 274678

QC Batch: 84099 Date Analyzed: 2011-07-26 Analyzed By: JR  
Prep Batch: 71407 QC Preparation: 2011-07-26 Prepared By: MD

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	292	mg/L	62.5	312	<6.25	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	294	mg/L	62.5	312	<6.25	94	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (xMS-1)** Spiked Sample:

QC Batch: 84171 Date Analyzed: 2011-08-01 Analyzed By: AH  
Prep Batch: 71470 QC Preparation: 2011-08-01 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	92.4	mg/L	1	50.0	33.9	117	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	78.0	mg/L	1	50.0	33.9	88	53.2 - 117	17	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 84098

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-07-26

### Standard (CCV-1)

QC Batch: 84098

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2011-07-26

### Standard (CCV-2)

QC Batch: 84098

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.2	97	90 - 110	2011-07-26

### Standard (CCV-2)

QC Batch: 84098

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.85	97	90 - 110	2011-07-26



**Standard (CCV-1)**

QC Batch: 84099

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.2	97	90 - 110	2011-07-26

**Standard (CCV-1)**

QC Batch: 84099

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.85	97	90 - 110	2011-07-26

**Standard (CCV-2)**

QC Batch: 84099

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2011-07-26

**Standard (CCV-2)**

QC Batch: 84099

Date Analyzed: 2011-07-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2011-07-26

**Standard (ICV-1)**

QC Batch: 84171

Date Analyzed: 2011-08-01

Analyzed By: AH

Report Date: August 23, 2011

Work Order: 11081617  
Bright Star Dairy

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13520 Stern Dr., El Paso, TX

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.28	86	85 - 115	2011-08-01

---

**Standard (CCV-1)**

QC Batch: 84171

Date Analyzed: 2011-08-01

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.79	96	85 - 115	2011-08-01

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# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Result Comments

- 1 Results for ID 272752 in QC batch 83742.
- 2 Results for ID 272752 in QC batch 83742.
- 3 Results for ID 272753 in QC batch 83742.
- 4 Results for ID 272753 in QC batch 83742.
- 5 Results for ID 272754 in QC batch 83742.
- 6 Results for ID 272754 in QC batch 83743.
- 7 Results for ID 272755 in QC batch 83743.
- 8 Results for ID 272755 in QC batch 83743.

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





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 E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report (Corrected Report)

Edward DeRuyter  
 Sunset Dairy  
 17900 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: August 23, 2011

Work Order: 11081616



DP: 257  
 Project Location: Mesquite, NM  
 Project Name: Sunset Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
274670	257-01	water	2011-07-22	10:26	2011-07-22
274671	257-02	water	2011-07-22	10:00	2011-07-22
274672	257-03	water	2011-07-22	10:25	2011-07-22
274673	257/260-01	water	2011-07-22	09:39	2011-07-22
274674	Lagoon-257	water	2011-07-22	10:38	2011-07-22

### Report Corrections (Work Order 11081616)

- WO 11081616 replaces WO 11072229. 8/17/11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:



*For inorganic analyses, the term MQL should actually read PQL.*

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, slightly slanted style.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2011-07-22 and assigned to work order 11081616. Samples for work order 11081616 were received intact at a temperature of 1.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	71400	2011-07-22 at 23:19	84093	2011-07-22 at 23:19
Chloride (IC)	E 300.0	71403	2011-07-27 at 00:22	84096	2011-07-22 at 00:22
NO3 (IC)	E 300.0	71400	2011-07-22 at 23:19	84093	2011-07-22 at 23:19
NO3 (IC)	E 300.0	71403	2011-07-27 at 00:22	84096	2011-07-22 at 00:22
TDS	SM 2540C	71300	2011-07-27 at 15:41	83974	2011-07-27 at 15:41
TKN	E 351.3	71469	2011-08-01 at 09:56	84170	2011-08-01 at 14:29

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11081616 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 274670 - 257-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84093 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71400 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	<sup>1</sup>	<sub>1</sub>	<b>673</b>	<b>673</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274670 - 257-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84093 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71400 Sample Preparation: 2011-07-22 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	<sup>2</sup>	<sub>1</sub>	<b>44.8</b>	<b>44.8</b>	<0.500	mg/L	5	0.500	0.5	0.1

**Sample: 274670 - 257-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83974 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 71300 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		<sub>1</sub>	<b>3270</b>	<b>3270</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274670 - 257-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84170 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71469 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 274671 - 257-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71403 Sample Preparation: 2011-07-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	<sup>3</sup>	1	<b>501</b>	<b>501</b>	<5.00	mg/L	10	5.00	2.5	0.5

**Sample: 274671 - 257-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71403 Sample Preparation: 2011-07-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	<sup>4</sup>	H 1	<b>28.7</b>	<b>28.7</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 274671 - 257-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83974 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 71300 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2160</b>	<b>2160</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274671 - 257-02**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84170 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71469 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 274672 - 257-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71403 Sample Preparation: 2011-07-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	5	1	<b>576</b>	<b>576</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274672 - 257-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71403 Sample Preparation: 2011-07-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	6	H 1	<b>12.9</b>	<b>12.9</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 274672 - 257-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83974 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 71300 Sample Preparation: 2011-07-27 Prepared By: MD

*continued . . .*

*sample 274672 continued ...*

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2100	2100	<5.00	mg/L	1	5.00	5	5

**Sample: 274672 - 257-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 84170

Prep Batch: 71469

Analytical Method: E 351.3

Date Analyzed: 2011-08-01

Sample Preparation: 2011-08-01

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.80	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 274673 - 257/260-01**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 84096

Prep Batch: 71403

Analytical Method: E 300.0

Date Analyzed: 2011-07-22

Sample Preparation: 2011-07-27

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	7	1	440	440	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274673 - 257/260-01**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 84096

Prep Batch: 71403

Analytical Method: E 300.0

Date Analyzed: 2011-07-22

Sample Preparation: 2011-07-27

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)	
Nitrate-N	<sup>8</sup>	H,J	1	<b>4.66</b>	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 274673 - 257/260-01**

Laboratory: El Paso

Analysis: TDS

QC Batch: 83974

Prep Batch: 71300

Analytical Method: SM 2540C

Date Analyzed: 2011-07-27

Sample Preparation: 2011-07-27

Prep Method: N/A

Analyzed By: MD

Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)	
Total Dissolved Solids			1	<b>1860</b>	<b>1860</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274673 - 257/260-01**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 84170

Prep Batch: 71469

Analytical Method: E 351.3

Date Analyzed: 2011-08-01

Sample Preparation: 2011-08-01

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)	
Total Kjeldahl Nitrogen - N		J	2	<b>3.64</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 274674 - Lagoon-257**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 84096

Prep Batch: 71403

Analytical Method: E 300.0

Date Analyzed: 2011-07-22

Sample Preparation: 2011-07-27

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)	
Chloride	<sup>9</sup>		1	<b>1010</b>	<b>1010</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 274674 - Lagoon-257**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR  
 Prep Batch: 71403 Sample Preparation: 2011-07-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
Nitrate-N	<sup>10</sup>	H,U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 274674 - Lagoon-257**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83974 Date Analyzed: 2011-07-27 Analyzed By: MD  
 Prep Batch: 71300 Sample Preparation: 2011-07-27 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
Total Dissolved Solids			1	<b>4460</b>	<b>4460</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 274674 - Lagoon-257**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 84170 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 71469 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL	
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N			2	<b>210</b>	<b>210</b>	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83974  
Prep Batch: 71300Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 84093  
Prep Batch: 71400Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22Analyzed By: JR  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 84093  
Prep Batch: 71400Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22Analyzed By: JR  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 84096  
Prep Batch: 71403Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27Analyzed By: JR  
Prepared By: JR



Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

**Method Blank (1)**QC Batch: 84096  
Prep Batch: 71403Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

**Method Blank (1)**QC Batch: 84170  
Prep Batch: 71469Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: AH  
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<2.17	mg/L	2.17

**Duplicate (1)** Duplicated Sample: 274681QC Batch: 83974  
Prep Batch: 71300Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27Analyzed By: MD  
Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3460	3330	mg/L	1	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83974  
Prep Batch: 71300Date Analyzed: 2011-07-27  
QC Preparation: 2011-07-27Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	954	mg/L	1	1000	<5.00	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	970	mg/L	1	1000	<5.00	97	90 - 110	2	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 84093  
Prep Batch: 71400Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.0	mg/L	1	25.0	<0.500	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	23.1	mg/L	1	25.0	<0.500	92	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 84093  
Prep Batch: 71400Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-22Analyzed By: JR  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.63	mg/L	1	5.00	<0.100	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.64	mg/L	1	5.00	<0.100	93	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 84096  
Prep Batch: 71403

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.Rec.	Rec. Limit
			Result	Units					
Chloride		1	25.6	mg/L	1	25.0	<0.500	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	25.6	mg/L	1	25.0	<0.500	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 84096  
Prep Batch: 71403

Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.09	mg/L	1	5.00	<0.100	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.08	mg/L	1	5.00	<0.100	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 84170  
Prep Batch: 71469

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: AH  
Prepared By: AH



**Matrix Spike (MS-1)** Spiked Sample: 274671QC Batch: 84096  
Prep Batch: 71403Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1950	mg/L	55.6	1390	501	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1950	mg/L	55.6	1390	501	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 274671QC Batch: 84096  
Prep Batch: 71403Date Analyzed: 2011-07-22  
QC Preparation: 2011-07-27Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	317	mg/L	55.6	278	28.7	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	316	mg/L	55.6	278	28.7	103	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (xMS-1)** Spiked Sample:QC Batch: 84170  
Prep Batch: 71469Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: AH  
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.8	mg/L	1	50.0	3.5	87	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.9	mg/L	1	50.0	3.5	83	53.2 - 117	4	20



Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 84093

Date Analyzed: 2011-07-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2011-07-22

### Standard (CCV-1)

QC Batch: 84093

Date Analyzed: 2011-07-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2011-07-22

### Standard (CCV-2)

QC Batch: 84093

Date Analyzed: 2011-07-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.2	97	90 - 110	2011-07-22

### Standard (CCV-2)

QC Batch: 84093

Date Analyzed: 2011-07-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2011-07-22

**Standard (CCV-1)**

QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2011-07-22

**Standard (CCV-1)**

QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2011-07-22

**Standard (CCV-2)**

QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-07-22

**Standard (CCV-2)**

QC Batch: 84096 Date Analyzed: 2011-07-22 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2011-07-22

**Standard (ICV-1)**

QC Batch: 84170 Date Analyzed: 2011-08-01 Analyzed By: AH

Report Date: August 23, 2011

Work Order: 11081616  
Sunset Dairy

Page Number: 20 of 22  
Mesquite, NM

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.35	107	85 - 115	2011-08-01

---

**Standard (CCV-1)**

QC Batch: 84170

Date Analyzed: 2011-08-01

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.49	110	85 - 115	2011-08-01

---

---

# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Result Comments

- 1 Former sample ID was 272582 under QC batch 83692.
- 2 Former sample ID was 272582 under QC batch 83692.
- 3 Sample ID was 272583 under QC batch 83369.
- 4 Sample ID was 272583 under QC batch 83369.
- 5 Sample ID was 272584 under QC batch 83369.
- 6 Sample ID was 272584 under QC batch 83369.
- 7 Sample ID was 272585 under QC batch 83369.
- 8 Sample ID was 272585 under QC batch 83369.
- 9 Sample ID was 272586 under QC batch 83369.
- 10 Sample ID was 272586 under QC batch 83369.

## Attachments

The scanned attachments will follow this page.



Please note, each attachment may consist of more than one page.

11072229 → 11081616 \$116111

6701 Aberdeen, Ste. 100  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

155 McCutcheon, Ste. H E  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

**TraceAnalysis, Inc.**  
Company Name: Phone #: 915-859-8150  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
E-mail: vajala@dhpump.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
LAB Order ID #

Project Name: Sunset Dairy  
Project Location (including state): Sunset Dairy, PO Box 10, Mesquite, NM 88048  
Sampler Signature: *[Signature]*

**ANALYSIS REQUEST**

PAH 8270 (Low Level Analysis)	
PAH 8270C	
TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

LAB # (LAB USE ONLY)	Field Code <i>jh 8/16/11 New Lab #s</i>	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	Turn Around Time	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH					ICE
272582-1	257-01	1	500 ml	X				X					7/22/11	10:26		
↓ -2	257-01	1	500ml	X				X						10:26		
272583-1	257-02	1	500ml	X				X					10:00			
↓ -2	257-02	1	500ml	X				X					10:00			
272584-1	257-03	1	500ml	X				X					10:25			
↓ -2	257-03	1	500ml	X				X					10:25			
272585-1	257/260-01	1	500ml	X				X					09:39			
↓ -2	257/260-01	1	500ml	X				X					09:39			
272586-1	Lagoon-257	1	500ml	X				X					10:38			
↓ -2	Lagoon-257	1	500ml	X				X					10:38			

Relinquished By: *[Signature]* Date: 7/22/11 Time: 13:30  
 Relinquished By: *[Signature]* Date: 7/22/11 Time: 17:00  
 Received at Laboratory By: *[Signature]* Date: 7/22/11 Time: 13:30  
 Received at Laboratory By: *[Signature]* Date: 7/22/11 Time: 17:00

Lab Use Only  
 Intact Y/N  
 Headspace Y/N  
 Temp. *9/11*  
 Log-In Review *M*  
 Remarks: *also for 3/1/10 in jh 8/16/11*  
 Dry Weight Basis Required  
 TRRP Report Required  
*8-16-11*



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report (Corrected Report)

Bruce Bonestroo  
River Valley Dairy, LLC  
1400 La Chuga Rd., Mesquite  
P.O. Box 1929  
Anthony, NM, 88021

Report Date: August 25, 2011

Work Order: 11072618



DP: 167  
Project Location: 1400 LA Chuga Rd., Mesquite, NM  
Project Name: River Valley Dairy, LLC

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
272769	167-04	water	2011-07-26	08:46	2011-07-26
272770	167-05	water	2011-07-26	10:25	2011-07-26
272771	167-08	water	2011-07-26	09:22	2011-07-26
272772	167-09	water	2011-07-26	08:30	2011-07-26
272773	Lagoon-167	water	2011-07-26	09:41	2011-07-26

### Report Corrections (Work Order 11072618)

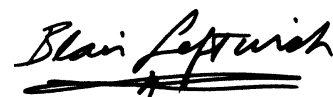
- Re-ran value for the TDS for 272772

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is underlined with two horizontal lines.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2011-07-26 and assigned to work order 11072618. Samples for work order 11072618 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	70912	2011-08-01 at 16:57	83487	2011-08-01 at 16:57
NO3 (IC)	E 300.0	70912	2011-08-01 at 16:57	83487	2011-08-01 at 16:57
TDS	SM 2540C	70901	2011-08-01 at 15:49	83469	2011-08-01 at 15:49
TDS	SM 2540C	70901	2011-08-01 at 15:49	83470	2011-08-01 at 15:49
TDS	SM 2540C	71525	2011-08-22 at 15:50	84239	2011-08-22 at 15:50
TKN	E 351.3	70931	2011-08-01 at 10:32	83554	2011-08-01 at 10:31

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11072618 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 272769 - 167-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83487 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70912 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1270</b>	<b>1270</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272769 - 167-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83487 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70912 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1	<b>19.3</b>	<b>19.3</b>	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272769 - 167-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83469 Date Analyzed: 2011-08-01 Analyzed By: MD  
 Prep Batch: 70901 Sample Preparation: 2011-08-01 Prepared By: MD

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>4560</b>	<b>4560</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272769 - 167-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83554 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 70931 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>4.62</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272770 - 167-05**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83487      Date Analyzed: 2011-08-01      Analyzed By: JR  
 Prep Batch: 70912      Sample Preparation: 2011-08-01      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>792</b>	<b>792</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272770 - 167-05**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 83487      Date Analyzed: 2011-08-01      Analyzed By: JR  
 Prep Batch: 70912      Sample Preparation: 2011-08-01      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H,J	1	<b>4.41</b>	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272770 - 167-05**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 83469      Date Analyzed: 2011-08-01      Analyzed By: MD  
 Prep Batch: 70901      Sample Preparation: 2011-08-01      Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3070</b>	<b>3070</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272770 - 167-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83554 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 70931 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.22</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272771 - 167-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83487 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70912 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>779</b>	<b>779</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272771 - 167-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83487 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70912 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H,J	1	<b>3.77</b>	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272771 - 167-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83469 Date Analyzed: 2011-08-01 Analyzed By: MD  
 Prep Batch: 70901 Sample Preparation: 2011-08-01 Prepared By: MD

*continued . . .*

*sample 272771 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3030</b>	<b>3030</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272771 - 167-08**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 83554

Prep Batch: 70931

Analytical Method: E 351.3

Date Analyzed: 2011-08-01

Sample Preparation: 2011-08-01

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>4.20</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272772 - 167-09**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 83487

Prep Batch: 70912

Analytical Method: E 300.0

Date Analyzed: 2011-08-01

Sample Preparation: 2011-08-01

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>736</b>	<b>736</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272772 - 167-09**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 83487

Prep Batch: 70912

Analytical Method: E 300.0

Date Analyzed: 2011-08-01

Sample Preparation: 2011-08-01

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	H,U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272772 - 167-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 84239 Date Analyzed: 2011-08-22 Analyzed By: MD  
 Prep Batch: 71525 Sample Preparation: 2011-08-22 Prepared By: MD

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2300</b>	<b>2300</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272772 - 167-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83554 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 70931 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.78</b>	<10.0	<2.17	mg/L	1	2.17	10	2.17

**Sample: 272773 - Lagoon-167**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83487 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70912 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>507</b>	<b>507</b>	<25.0	mg/L	50	25.0	2.5	0.5

**Sample: 272773 - Lagoon-167**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 83487 Date Analyzed: 2011-08-01 Analyzed By: JR  
 Prep Batch: 70912 Sample Preparation: 2011-08-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	H,U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

**Sample: 272773 - Lagoon-167**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 83470 Date Analyzed: 2011-08-01 Analyzed By: MD  
 Prep Batch: 70901 Sample Preparation: 2011-08-01 Prepared By: MD

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2160</b>	<b>2160</b>	<5.00	mg/L	1	5.00	5	5

**Sample: 272773 - Lagoon-167**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 83554 Date Analyzed: 2011-08-01 Analyzed By: AH  
 Prep Batch: 70931 Sample Preparation: 2011-08-01 Prepared By: AH

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>33.9</b>	<b>33.9</b>	<2.17	mg/L	1	2.17	10	2.17

## Method Blanks

### Method Blank (1)

QC Batch: 83469  
Prep Batch: 70901Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: MD  
Prepared By: MD

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<5.00	mg/L	5

### Method Blank (1)

QC Batch: 83487  
Prep Batch: 70912Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.500	mg/L	0.5

### Method Blank (1)

QC Batch: 83487  
Prep Batch: 70912Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.100	mg/L	0.1

### Method Blank (1)

QC Batch: 83554  
Prep Batch: 70931Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01Analyzed By: AH  
Prepared By: AH



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 83469  
Prep Batch: 70901

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	mg/L	1	1000	<5.00	99	90 - 110	1	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83470  
Prep Batch: 70901

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1030	mg/L	1	1000	<5.00	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110	3	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 83487  
Prep Batch: 70912

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83487  
Prep Batch: 70912

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.83	mg/L	1	5.00	<0.100	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.84	mg/L	1	5.00	<0.100	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 83554  
Prep Batch: 70931

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: AH  
Prepared By: AH

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	53.6	mg/L	1	50.0	<2.17	107	68.6 - 108

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	50.7	mg/L	1	50.0	<2.17	101	68.6 - 108	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 84239  
Prep Batch: 71525

Date Analyzed: 2011-08-22  
QC Preparation: 2011-08-22

Analyzed By: MD  
Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	970	mg/L	1	1000	<5.00	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	960	mg/L	1	1000	<5.00	96	90 - 110	1	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272773

QC Batch: 83487  
Prep Batch: 70912

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1960	mg/L	55.6	1390	507	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1950	mg/L	55.6	1390	507	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272773

QC Batch: 83487  
Prep Batch: 70912

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	269	mg/L	55.6	278	<5.56	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	268	mg/L	55.6	278	<5.56	96	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 272773

QC Batch: 83554  
Prep Batch: 70931

Date Analyzed: 2011-08-01  
QC Preparation: 2011-08-01

Analyzed By: AH  
Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	92.4	mg/L	1	50.0	33.9	117	53.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		2	78.0	mg/L	1	50.0	33.9	88	53.2 - 117
									17
									20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 83487

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2011-08-01

### Standard (CCV-1)

QC Batch: 83487

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2011-08-01

### Standard (CCV-2)

QC Batch: 83487

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2011-08-01

### Standard (CCV-2)

QC Batch: 83487

Date Analyzed: 2011-08-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2011-08-01





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# Appendix

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-10-1	El Paso
2	NELAP	T104704219-11-4	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



#11072618

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H El  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: \_\_\_\_\_

Phone #: 915-859-8150

D&H Petroleum & Environmental Services

Cell #: \_\_\_\_\_

Address: (Street, City, Zip)

Fax #: \_\_\_\_\_  
E-mail: [vajala@dhpump.com](mailto:vajala@dhpump.com)

1221 Tower Trail Ln, El Paso TX 79907

Contact Person: \_\_\_\_\_

Victor Ayala

Invoice to (if different from above): \_\_\_\_\_

River Valley Dairy, PO Box 1929, Anthony, NM 88021

Project #:

Project Name:  
River Valley Dairy, LLC

Sampler Signature: *[Signature]*

Project Location (including state):

River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		Turn Around Time	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE		TIME
222772-167-09		1	500 ml	X				X	X	X			7/26/11	8:30	
222772-167-09		1	500ml	X				X	X	X			7/26/11	8:30	
272773-2 Lagoon-167		1	500ml	X				X	X	X			7/26/11	9:41	
272773-1 Lagoon-167		1	500ml	X				X	X	X			7/26/11	9:41	

### ANALYSIS REQUEST

MTBE 8021B/602																
BTEX 8021B/602																
TPH 418.1 / TX1005																
TX 1005 Extended (C35)																
PAH 8270C																
PAH 8270 (Low Level Analysis)																
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7																
Nitrates EPA 300	X															
TKN SM 4500 NORG C	X															
Chloride EPA 300																
Total Dissolved Solids SM 2540 C MOD																

Relinquished By: *[Signature]* Date: 7/26/11 Time: 11:00  
 Received By: *[Signature]* Date: 7/26/11 Time: 11:00

Relinquished By: *[Signature]* Date: 7/26/11 Time: 17:00  
 Received By: *[Signature]* Date: 7/27/11 Time: 09:10

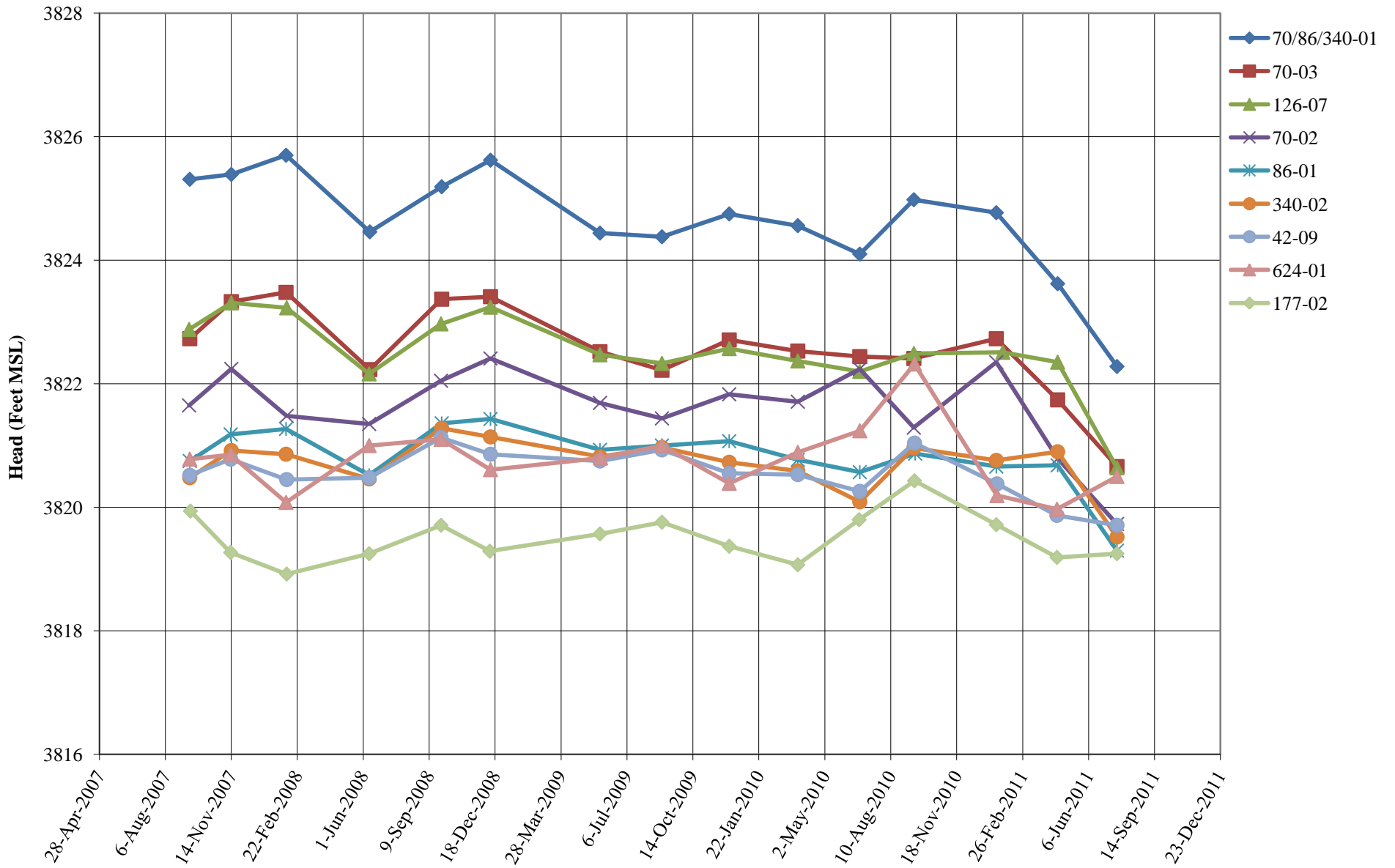
Lab Use Only  
 Intact  Y  N  
 Headspace Y / N  
 Temp 21.3°C  
 Log-in Review *[Signature]*

Remarks: NO<sub>2</sub>, NO<sub>3</sub>, TDS, FCI dis...  
 Dry Weight Basis Required  
 TRRP Report Required

(2) 2/13

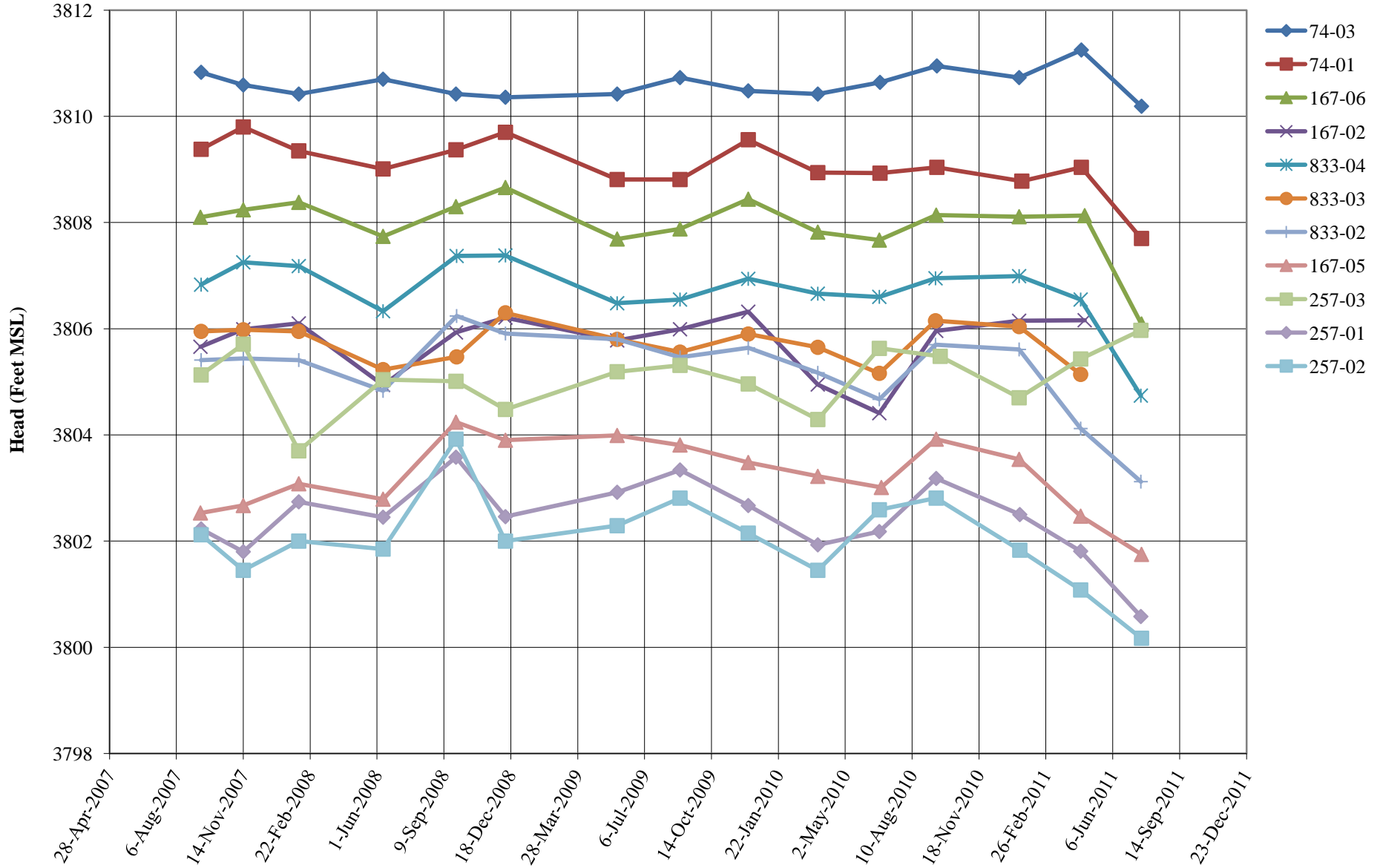
**APPENDIX C  
HYDROGRAPHS**

## HYDROGRAPHS FOR DP MONITORING WELLS NORTHERN PORTION



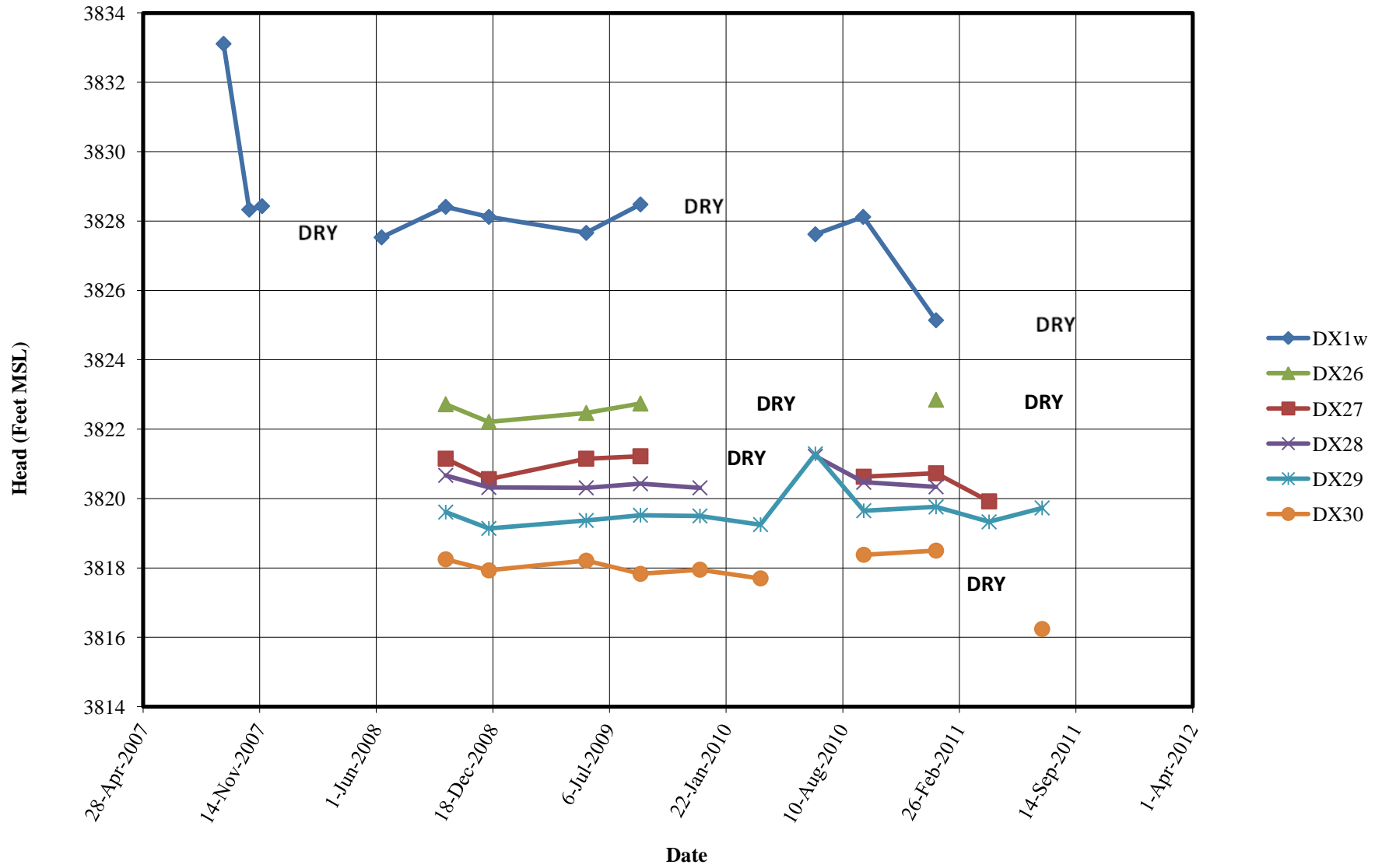


## HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION

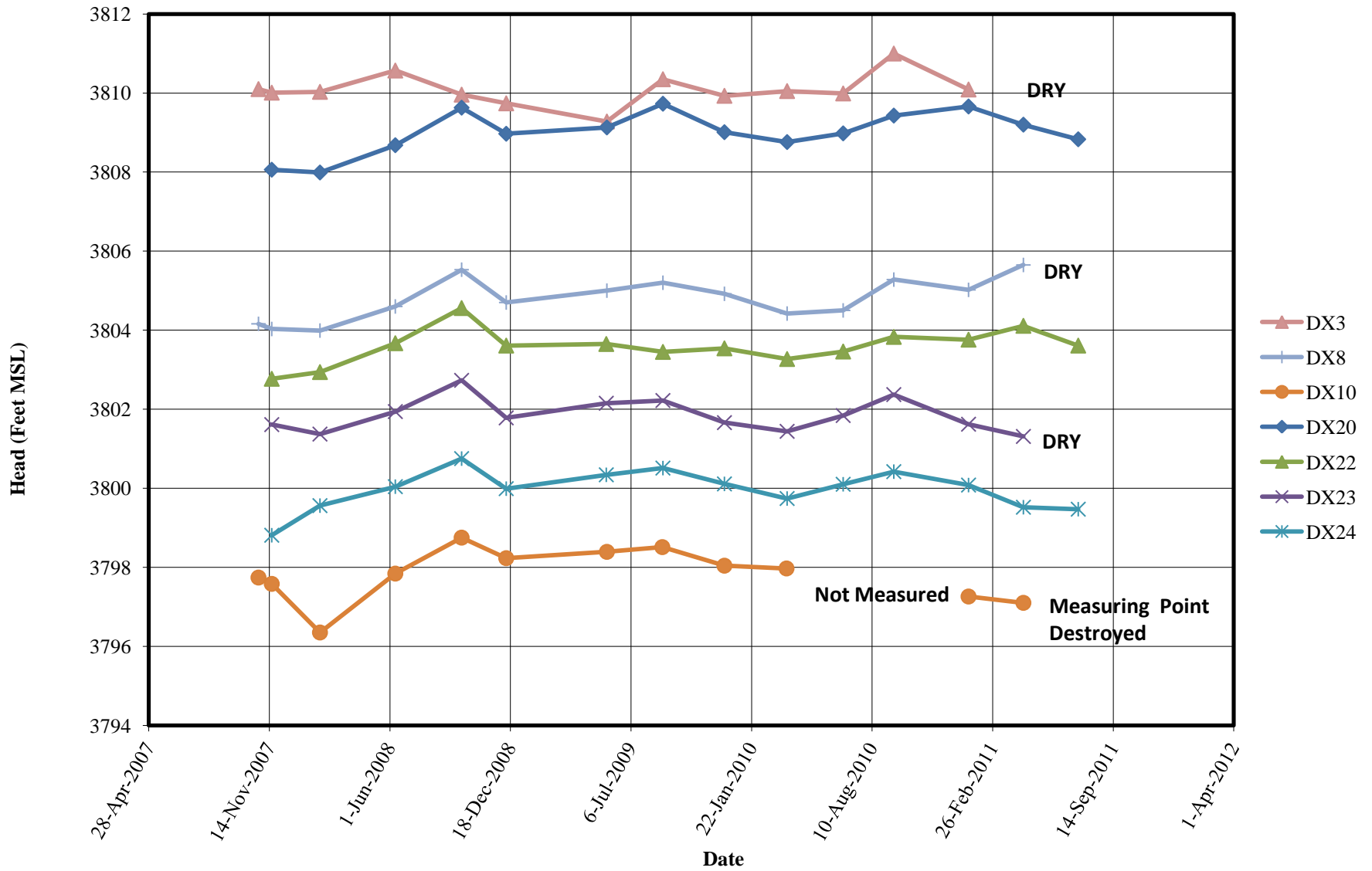




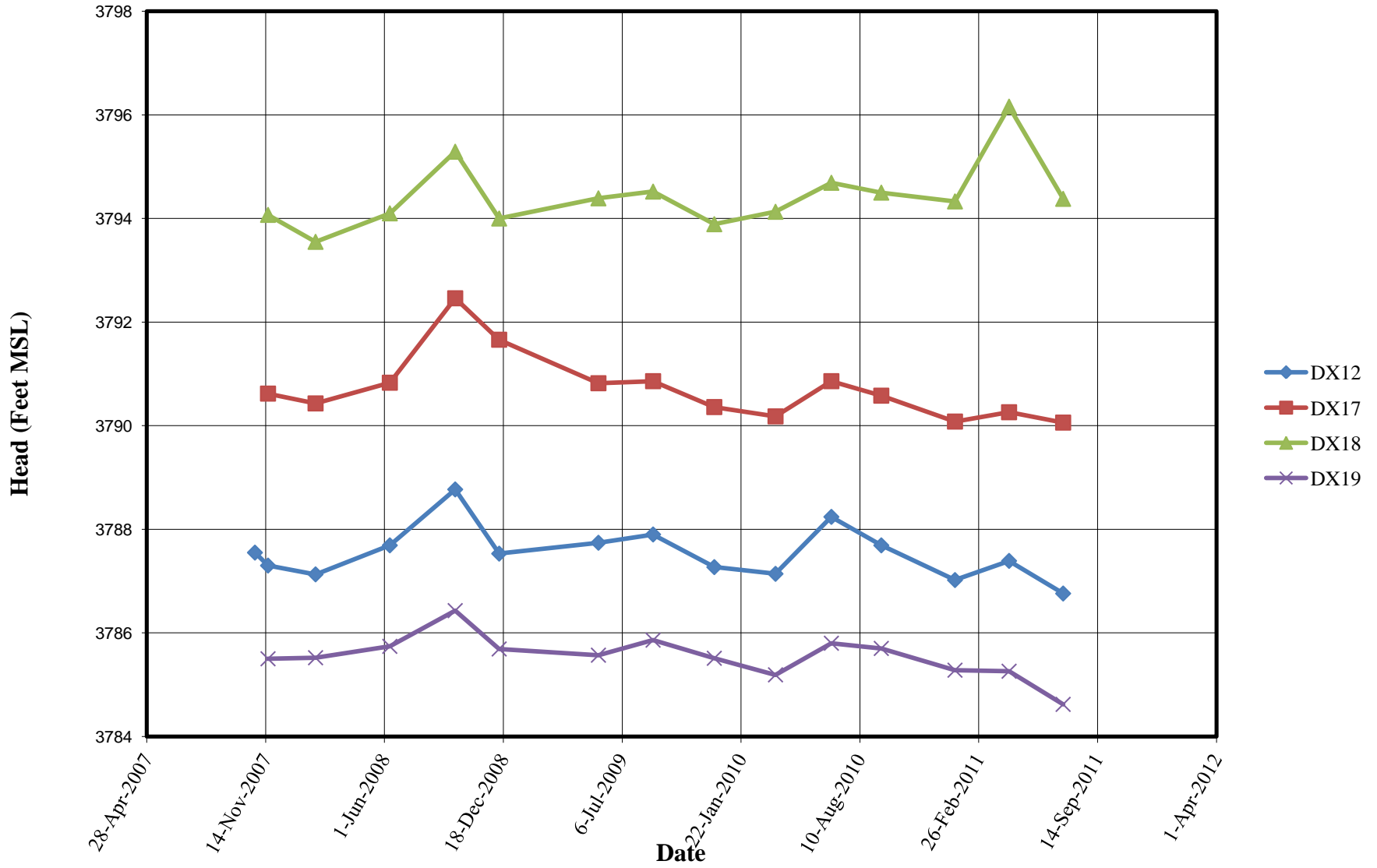
### HYDROGRAPHS FOR NORTHERN DRAIN LOCATIONS



### HYDROGRAPHS FOR CENTRAL DRAIN LOCATIONS



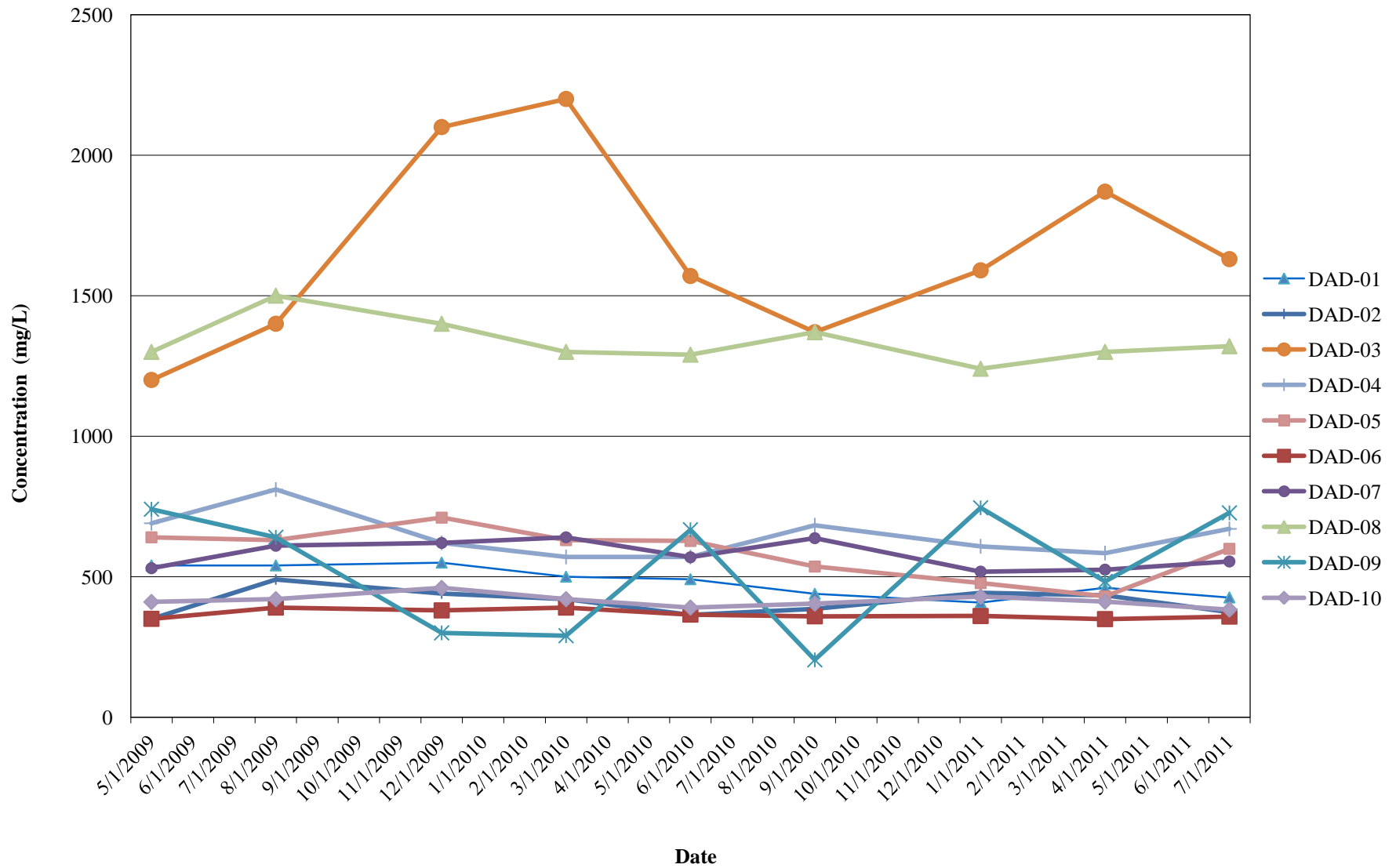
### HYDROGRAPHS FOR SOUTHERN DRAIN LOCATIONS





**APPENDIX D**  
**CONCENTRATION TRENDS**

### CONCENTRATION TRENDS FOR CHLORIDE IN DAD MONITORING WELLS



### CONCENTRATION TRENDS FOR NITRATE IN SELECT DAD MONITORING WELLS

