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January 20, 2012

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,

Teri McMillan
Project Manager

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

January 2012

EA Project No. 1464103.0001

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Quarterly Groundwater Monitoring Report

Doña Ana Dairies
Mesquite, New Mexico

Prepared for:

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Mesquite, New Mexico

Prepared by:

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and Technology, Inc.
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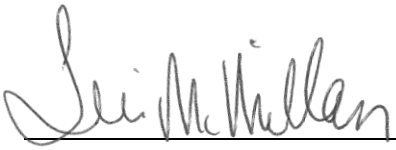
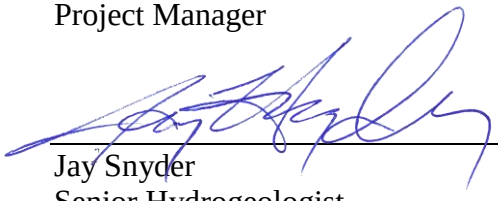


Teri McMillan
Project Manager

January 20, 2012
Date



Jay Snyder
Senior Hydrogeologist

January 20, 2012
Date

January 2012

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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 February1, 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 1Abatement Plan monitoring program.

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

- Between December 7 and 9, 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 December 13, 2011 to verify water levels.

- Starting on October 26, 2011, D&H representatives collected groundwater samples 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 about two weeks, ending on November 9, 2011. One sample for Gonzalez Dairy was collected on December 7, 2011. The samples were delivered to TraceAnalysis, Inc. and analyzed for nitrate using EPA Method 300.0 or SM 4500 NO3 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 had 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 December 7 - 9, 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 December 13, 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 October 26 and 27 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 October 31, 2011 and November 9, 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 or pumping with a dedicated pump. Field parameters including, at a minimum, 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 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 10.70 in well DAD-03 to 128.14 in Dominguez #2 well 42-12 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 have generally fallen when compared to the last monitoring event conducted in July 2011 (See hydrographs presented in Appendix C), except in monitoring wells at Del Oro Dairy completed in the regional aquifer where water levels have increased. In the northern and central portions water levels have fallen by about 2 feet in the past year. As a result, several wells (Dominquez #2 42-07, Dominquez 624-04 and 624-08, and Big Sky 833-01 and 833-03) were dry during this sampling event.

The groundwater flow direction throughout the northern portion, 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 is approximately 0.001 ft./ft.

3.2 Groundwater Analytical Results

Groundwater analyte concentrations were below the NMWQCC standards for nitrate in nine of the ten AP monitoring wells. Only DAD-09 had concentrations above the nitrate standard during this sampling event. Chloride concentrations continue to exceed the NMWQCC standard in all ten abatement wells and TDS was above its standard in eight of the abatement wells.

The nitrate concentration in DAD-09 during this monitoring event increased from 70.2 mg/l in July 2011 to 77.7 mg/l during this event. Nitrate levels increased slightly in wells DAD-02, DAD-07, DAD-09, and DAD-10, while nitrate concentrations decreased slightly in DAD-01, DAD-06, 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, with the exception of the TDS concentrations in wells DAD-05 and DAD-07 where concentrations decreased to below the standard and appear to be suspect. Chloride concentrations ranged from 322 mg/l in DAD-06 to 1,790 mg/l in DAD-03 and TDS values ranged from 750 mg/l in DAD-07 to 5,420 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 week period ending on November 9, 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 8.3 mg/l. The upgradient well (northern land application well 86/340-1) had a nitrate concentration of 11.6 mg/l, just above the NMWQCC standard for nitrate (10 mg/l). All eastern cross-gradient wells, Dominguez #2 wells 42-10, 42-11, and 42-12, and AP well DAD-01, have nitrate concentrations below the standard. The western delineating cross-gradient well Dominguez 624-05 had a nitrate concentration of 2.58 mg/l.

The chloride and TDS concentrations are above standards in all wells sampled within the northern portion, except for the TDS concentration at Dominguez # 42-12. As in past monitoring events, both chloride and TDS concentrations upgradient (in well 86/340-1) of the Dairies are above NMWQCC standards at 593 mg/l and 2,910 mg/l, respectively.

Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy well 833-07 and 833-09 at concentrations of 94.2 mg/l and 93 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 Buena Vista II 74-05, River Valley 167-02, DAD-05 and DAD-07 and are considered suspect. The highest chloride and TDS concentrations were observed in DAD-03 at 1,790 mg/l and 5,420 mg/l. DAD-03 is located upgradient of Buena Vista Dairy II 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 were observed in this well. In the regional aquifer, only one well, Del Oro Dairy well 692-09, was above the nitrate standard with a concentration of 10.6 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 all Del Oro Dairy wells, except wells 692-05 and DAD-09. The nitrate concentration in well 692-02 decreased significantly from 24.1 mg/l in July 2011 to 4.69 mg/l during this event. The highest nitrate concentration was observed in the perched aquifer Del Oro well 692-01 with a concentration of 168 mg/l.

Chloride and TDS concentrations are above NMWQCC standards in all wells sampled within the southern portion, except for the TDS concentration at well 692-07. Chloride concentrations in this area ranged from 383 mg/l in well 692-05 to 1,180 mg/l in well 692-01, while TDS ranged from 780 mg/l to 4,690 mg/l in well 692-07 and well 692-01, respectively. Upgradient well Del Oro 692-08 had a chloride concentration of 436 mg/l and a TDS concentration of 1,340 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 ranged from 10.70 to 128.14 feet below the top of casing.

- In general, water levels have generally fallen when compared to the last monitoring event conducted in July 2011.

- The groundwater flow direction at the Dairies within the regional groundwater aquifer is east-southeast. The hydraulic gradient is 0.001 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 nine of the ten groundwater samples collected from all the AP DAD wells.

- Chloride was above NMWQCC standards in all monitoring wells sampled.

- TDS was above the NMWQCC standard in all wells except, Dominguez #2 well 42-12, Buena Vista II 74-05, River Valley 167-02, Del Oro 692-07DAD-05 and DAD-07. Many of which may be 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.

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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
NORTHERN AREA						
Northern Land Application Area						
70-03	8-Dec-2011	424580.78	1510233.88	3871.43	51.49	3819.94
	19-Jul-2011				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	8-Dec-2011	427320.92	1508461.05	3866.77	45.17	3821.60
	19-Jul-2011				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	8-Dec-2011	432021.33	1503216.90	3876.14	51.20	3824.94
	19-Jul-2011				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
Former Daybreak Dairy (Del Norte Dairy)						
126-04	8-Dec-2011	423258.23	1510546.24	3850.31	30.84	3819.47
	19-Jul-2011				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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Monitoring Well	Date Measured	Northing[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Former Daybreak Dairy (Del Norte Dairy) Continued						
126-05	8-Dec-2011	422293.26	1510649.84	3842.62	23.50	3819.12
	19-Jul-2011				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	8-Dec-2011	423613.62	1509986.47	3850.94	31.28	3819.66
	19-Jul-2011				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	8-Dec-2011	425154.15	1510994.31	3893.35	73.34	3820.01
	19-Jul-2011				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	8-Dec-2011	421492.11	1510198.45	3838.88	19.55	3819.33
	19-Jul-2011				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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Monitoring Well	Date Measured	Northing[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Former Daybreak Dairy (Del Norte Dairy) Continued						
126-13	8-Dec-2011	423431.96	1510657.41	3857.37	37.86	3819.51
	19-Jul-2011				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
Mountain View Dairy						
70-01	8-Dec-2011	423303.43	1510585.63	3851.84	32.40	3819.44
	9-Jul-2011				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	8-Dec-2011	423412.73	1511192.51	3861.25	41.89	3819.36
	19-Jul-2011				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
Buena Vista Diary I						
86-01	8-Dec-2011	421534.62	1511667.76	3864.96	46.22	3818.74
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Buena Vista Diary I - Continued						
86-02	8-Dec-2011	421792.08	1510881.53	3848.08	28.77	3819.31
	19-Jul-2011				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
Bright Star Dairy						
340-01	8-Dec-2011	421410.13	1511423.42	3858.48	39.54	3818.94
	19-Jul-2011				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	8-Dec-2011	420641.08	1512051.57	3869.76	51.07	3818.69
	19-Jul-2011				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
Former D&J Dairy (Dominguez 2)						
42-02	8-Dec-2011	419982.45	1511126.19	3844.69	25.35	3819.34
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Former D&J Dairy (Dominguez 2) Continued						
42-03	8-Dec-2011	419710.55	1514064.35	3898.46	81.26	3817.20
	19-Jul-2011				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	8-Dec-2011	420021.61	1511465.15	3850.15	31.19	3818.96
	19-Jul-2011				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	8-Dec-2011	420584.8	1513076.66	3891.52	Dry	
	19-Jul-2011				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	8-Dec-2011	419994.93	1511197.91	3846.53	27.33	3819.20
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Former D&J Dairy (Dominguez 2) Continued						
42-09	8-Dec-2011	419729.17	1512255.76	3865.25	46.76	3818.49
	19-Jul-2011				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	8-Dec-2011	421426.39	1514460.4	3929.28	111.16	3818.12
	19-Jul-2011				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	8-Dec-2011	420693.98	1515270.32	3939.31	121.83	3817.48
	19-Jul-2011				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	8-Dec-2011	420972.09	1515423.88	3945.83	128.14	3817.69
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Former D&J Dairy (Dominguez 2) Continued						
42-13	8-Dec-2011	419734.06	1512534.42	3873.10	54.83	3818.27
	19-Jul-2011				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
Dominguez Dairy						
624-01	7-Dec-2011	418826.21	1512131.46	3843.72	25.19	3818.53
	19-Jul-2011				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	7-Dec-2011	417335.25	1512201.42	3835.45	17.30	3818.15
	19-Jul-2011				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	8-Dec-2011	418542.24	1508104.07	3835.69	Dry	
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Dominguez Dairy Continued						
624-05	7-Dec-2011	419777.52	1509829.65	3835.27	15.25	3820.02
	3-Aug-2011				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	13-Dec-2011	418502.42	1513981.08	3868.18	50.89	3817.29
	19-Jul-2011				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	13-Dec-2011	418012.23	1514707.77	3872.25	55.46	3816.79
	19-Jul-2011				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	8-Dec-2011	421461.78	1507712.04	3838.70	Dry	
	3-Aug-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Gonzalez Dairy						
177-01	7-Dec-11	417300.94	1512942.63	3834.27	16.36	3817.91
	19-Jul-11				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	7-Dec-2011	416738.21	1513246.51	3834.66	16.92	3817.74
	19-Jul-2011				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
177-03A	13-Dec-2011				18.51	
177-04	7-Dec-11	416796.99	1513733.28	3840.33	22.97	3817.36
	19-Jul-11				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Gonzalez Dairy Continued						
177-05	7-Dec-11	417302.42	1514116.55	3852.16	35.19	3816.97
	19-Jul-11				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	7-Dec-11	417301.84	1514765.63	3866.02	49.85	3816.17
	19-Jul-11				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	7-Dec-11	415240.93	1515476.47	3858.91	43.46	3815.45
	19-Jul-11				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
CENTRAL AREA						
Buena Vista Diary II						
74-01	8-Dec-2011	405434.93	1519310.15	3841.01	33.63	3807.38
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Buena Vista Diary II Continued						
74-02	8-Dec-2011	404574.08	1519035.52	3820.58	15.49	3805.09
	19-Jul-2011				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	8-Dec-2011	407163.61	1516711.72	3823.36	13.70	3809.66
	19-Jul-2011				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	8-Dec-2011	405488.65	1519864.48	3853.17	45.98	3807.19
	19-Jul-2011				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	8-Dec-2011	404747.71	1519885.3	3845.35	39.18	3806.17
	19-Jul-2011				38.84	3806.51
	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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
River Valley Dairy						
167-01	8-Dec-2011	402518.37	1518459.71	3818.94	15.06	3803.88
	19-Jul-2011				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	13-Dec-2011	402518.18	1518936.72	3818.88	15.13	3803.75
	19-Jul-2011				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	8-Dec-2011	402498.3	1519354.81	3819.64	15.92	3803.72
	19-Jul-2011				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	8-Dec-2011	402981.73	1519415.73	3825.66	21.73	3803.93
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
River Valley Dairy Continued						
167-04	8-Dec-2011	402032.19	1519884.6	3827.60	24.01	3803.59
	19-Jul-2011				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				21.57	3806.03
	26-May-2009				21.60	3806.00
	10-Dec-2008				21.01	3806.59
	27-Sep-2008				21.01	3806.59
	10-Jun-2008				22.20	3805.40
	5-Feb-2008				21.51	3806.09
	14-Nov-2007				21.44	3806.16
	11-Sep-2007				21.68	3805.92
167-05	13-Dec-2011	397947.44	1520446.03	3815.44	14.10	3801.34
	19-Jul-2011				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	8-Dec-2011	404479.35	1519603.88	3834.84	29.10	3805.74
	19-Jul-2011				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	8-Dec-2011	402562.23	1518480.34	3819.08	15.45	3803.63
	25-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
River Valley Dairy Continued						
167-08	8-Dec-2011	399352.96	1519889.65	3817.96	15.52	3802.44
	19-Jul-2011				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	8-Dec-2011	398473.95	1519259.34	3817.00	14.42	3802.58
	19-Jul-2011				13.17	3803.83
	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
Big Sky Dairy						
833-01	8-Dec-2011	399617.23	1521136.33	3839.55	Dry	
	18-Jul-2011				Dry	
	19-Apr-2001				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	8-Dec-2011	401200.32	1520639.92	3836.04	33.08	3802.96
	18-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Big Sky Dairy Continued						
833-03	8-Dec-2011	401392.09	1521955.23	3867.06	Dry	
	18-Jul-2011				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	8-Dec-2011	402898.52	1520659.33	3845.79	41.55	3804.24
	18-Jul-2011				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	8-Dec-2011	399712.39	1522374.73	3865.51	63.63	3801.88
	18-Jul-2011				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	8-Dec-2011	402219.48	1522652.04	3878.20	73.41	3804.79
	18-Jul-2011				72.93	3805.27
	25-Apr-2001				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Big Sky Dairy Continued						
833-07	8-Dec-2011	399298.8	1522082.75	3860.70	59.26	3801.44
	18-Jul-2011				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	8-Dec-2011	400535.64	1521938.23	3861.76	58.96	3802.80
	18-Jul-2011				58.36	3803.40
	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	8-Dec-2011	398280.67	1520918.52	3826.27	25.08	3801.19
	18-Jul-2011				25.41	3800.86
	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	8-Dec-2011	396715.89	1520283.6	3820.76	19.95	3800.81
	18-Jul-2011				19.23	3801.53
	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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Sunset/Desert Land Dairy						
257-01	8-Dec-2011	395856.31	1520572.16	3820.33	20.18	3800.15
	18-Jul-2011				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	8-Dec-2011	394728.34	1521030.29	3813.67	14.38	3799.29
	19-Jul-2011				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	1-Nov-2011	397935.69	1518746.14	3814.74	11.29	3803.45
	18-Jul-2011				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	1-Nov-2011	397678.36	1519948.22	3814.04	12.79	3801.25
	18-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Additional Wells						
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	--
SOUTHERN AREA						
Del Oro Dairy						
692-01	9-Dec-2011	373615.88	1531529.38	3844.13	58.19	3785.94
	18-Jul-2011				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	13-Dec-2011	372984.72	1531192.1	3840.84	54.94	3785.90
	18-Jul-2011				55.10	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	9-Dec-2011	372982.53	1531555.21	3842.66	56.91	3785.75
	18-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Del Oro Dairy Continued						
692-05	9-Dec-2011	374807.26	1532403	3854.26	77.39	3776.87
	18-Jul-2011				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	9-Dec-2011	375054.77	1532411.83	3856.48	79.32	3777.16
	18-Jul-2011				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	13-Dec-2011	374944.88	1532019.81	3848.20	70.54	3777.66
	18-Jul-2011				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	9-Dec-2011	375535.69	1531378.09	3843.09	64.65	3778.44
	18-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Del Oro Dairy Continued						
692-09	8-Dec-2011	373575.83	1532395.09	3856.32	80.44	3775.88
	18-Jul-2011				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
Anthony Waste Water Treatment Plant						
MW-1	9-Dec-2011	372097.86	1532364.36	3843.03	58.01	3785.02
	18-Jul-2011				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	9-Dec-2011	NM	NM	3843.25	59.33	3783.92
	18-Jul-2011				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	8-Dec-2011	NM	NM	3841.24	56.87	3784.37
	18-Jul-2011				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
ABATEMENT PLAN MONITOR WELLS						
DAD-01	8-Dec-2011	422970.59	1512825.76	3886.16	67.41	3818.75
	19-Jul-2011				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	8-Dec-2011	413002.98	1517319.93	3875.82	63.07	3812.75
	19-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Abatement Plan Monitor Wells Continued						
DAD-03	8-Dec-2011	407721.31	1516497.85	3820.58	10.70	3809.88
	19-Jul-2011				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	8-Dec-2011	404576.66	1517413.28	3821.47	13.84	3807.63
	19-Jul-2011				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	8-Dec-2011	396712.87	1519102.06	3816.01	14.05	3801.96
	18-Jul-2011				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	8-Dec-2011	404273.19	1522081.00	3887.71	81.55	3806.16
	18-Jul-2011				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	8-Dec-2011	399270.18	1524320.88	3891.38	89.35	3802.03
	18-Jul-2011				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	13-Dec-2011	395287.38	1522575.07	3849.15	50.12	3799.03
	18-Jul-2011				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	13-Dec-2011	373259.30	1530905.70	3838.03	52.62	3785.41
	18-Jul-2011				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[a]	Easting[a]	Casing Elevation[b]	Depth to Water[c]	Ground Water Elevation[b]
Abatement Plan Monitor Wells Continued						
DAD-10	13-Dec-2011	372980.55	1532375.33	3854.93	79.07	3775.86
	18-Jul-2011				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
DAD-11 (177-03)	13-Dec-11	416211.35	1513814.71	3835.90	18.75	3817.15
	19-Jul-11				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

NOTES:

[a] Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

[b] Vertical Control to NAVD88 Datum in feet above mean sea level

[c] Measured in feet below the top of casing at survey point on north side of well

[d] 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[a]	Easting[a]	Reference Point Elevation[b]	Depth to Water[c]	Groundwater Elevation[b]
DX1	9-Dec-2011	424166.25	1505650.06	3841.14	Dry	
	18-Jul-2011				5.44	3835.70
	18-Apr-2011				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	
	8-Dec-2009				Dry	
	28-Aug-2009				3.88	3837.26
	27-May-2009				4.98	3836.16
	11-Dec-2008				Dry	
	28-Sep-2008				4.50	3836.64
	10-Jun-2008				5.00	3836.14
	6-Feb-2008				Dry	
	18-Nov-2007				Dry	
	27-Oct-2007				Dry	
	13-Sep-2007				NM	
DX1w	9-Dec-2011	424185.98	1505134.10	3833.91	Dry	
	18-Jul-2011				Dry	
	18-Apr-2011				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	
	8-Dec-2009				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	
	18-Nov-2007				5.48	3828.43
	27-Oct-2007				5.58	3828.33
	13-Sep-2007				0.80	3833.11
DX2	9-Dec-2011	424132.59	1503432.16	3845.54	Dry	
	19-Jul-2011				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	
	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	
	18-Nov-2007				Dry	
	27-Oct-2007				Dry	
	13-Sep-2007				5.00	3840.54
DX3	9-Dec-2011	407227.41	1516041.38	3817.20	Dry	
	18-Jul-2011				Too much debris to measure	
	18-Apr-2011				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

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

Monitoring Well	Date Measured	Northing[a]	Easting[a]	Reference Point Elevation[b]	Depth to Water[c]	Groundwater Elevation[b]
DX4	9-Dec-2011	407211.53	1514313.56	3824.28	Dry	
	18-Jul-2011				6.27	3818.01
	18-Apr-2011				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	
	8-Dec-2009				NM	NM
	28-Aug-2009				2.20	3822.08
	27-May-2009				1.72	3822.56
	11-Dec-2008				Dry	
	28-Sep-2008				1.57	3822.71
	10-Jun-2008				2.63	3821.65
	6-Feb-2008				Dry	
	18-Nov-2007				Dry	
	27-Oct-2007				Dry	
	13-Sep-2007				3.50	3820.78
DX5	9-Dec-2011	407220.67	1511845.72	3817.15	Dry	
	18-Jul-2011				Too much debris to measure	
	18-Apr-2011				Dry	
	17-Jan-2011				Could not access	
	15-Sep-2010				Could not access	
	23-Jun-2010				NM	
	22-Mar-2010				NM	
	8-Dec-2009				NM	
	28-Aug-2009				NM	
	27-May-2009				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	
	18-Nov-2007				2.73	3814.42
	27-Oct-2007				3.17	3813.98
	13-Sep-2007				0.50	3816.65
DX8	9-Dec-2011	399295.54	1519306.03	3808.70	Dry	
	18-Jul-2011				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	
	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

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

Monitoring Well	Date Measured	Northing[a]	Easting[a]	Reference Point Elevation[b]	Depth to Water[c]	Groundwater Elevation[b]
DX11	9-Dec-2011	388713.30	1522640.15	3810.25	Dry	
	18-Jul-2011				3.19	3807.06
	18-Apr-2011				Dry	Dry
	17-Jan-2011				2.60	3807.65
	15-Sep-2010				Dry	
	23-Jun-2010				NM	NM
	21-Mar-2010				Dry	
	8-Dec-2009				Dry	
	27-Aug-2009				4.84	3805.41
	11-Dec-2008				4.32	3805.93
	11-Dec-2008				Dry	
	28-Sep-2008				4.74	3805.51
	10-Jun-2008				5.51	3804.74
	6-Feb-2008				Dry	
	18-Nov-2007				Dry	
	27-Oct-2007				Dry	
	13-Sep-2007				Dry	
DX12	9-Dec-2011	372993.14	1526753.61	3796.24	Dry	
	18-Jul-2011				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
DX16	9-Dec-2011	372996.10	1527610.40	3801.57	Dry	
	18-Jul-2011				8.52	3793.05
	18-Apr-2011				Dry	
	17-Jan-2011				8.27	3793.30
	15-Sep-2010				Dry	
	23-Jun-2010				7.29	3794.28
	21-Mar-2010				Dry	
	8-Dec-2009				Dry	
	27-Aug-2009				7.34	3794.23
	27-May-2009				Dry	
	11-Dec-2008				Dry	
	28-Sep-2008				2.94	3798.63
	10-Jun-2008				7.02	3794.55
	6-Feb-2008				Dry	
	18-Nov-2007				Dry	
	27-Oct-2007				Dry	
	13-Sep-2007				2.00	3799.57
DX17	9-Dec-2011	378284.74	1524969.06	3794.07	Dry	
	18-Jul-2011				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	
	13-Sep-2007				NM	

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

Monitoring Well	Date Measured	Northing[a]	Easting[a]	Reference Point Elevation[b]	Depth to Water[c]	Groundwater Elevation[b]
DX18	9-Dec-2011	383440.21	1522863.03	3799.50	Dry	
	18-Jul-2011				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	
	13-Sep-2007				NM	
DX19	9-Dec-2011	370359.76	1527083.49	3789.58	Dry	
	18-Jul-2011				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	
	13-Sep-2007				NM	
DX20	9-Dec-2011	404509.20	1517383.56	3812.01	Dry	
	18-Jul-2011				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	
	13-Sep-2007				NM	
DX21	9-Dec-2011	397941.90	1519301.66	3814.31	Dry	
	18-Apr-2011				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	
	8-Dec-2009				NM	
	28-Aug-2009				8.54	3805.77
	26-May-2009				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	
	13-Sep-2007				NM	

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

Monitoring Well	Date Measured	Northing[a]	Easting[a]	Reference Point Elevation[b]	Depth to Water[c]	Groundwater Elevation[b]
DX22	9-Dec-2011	396687.18	1519046.47	3807.36	Dry	
	18-Jul-2011				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	
	13-Sep-2007				NM	
DX23	9-Dec-2011	394041.08	1518228.68	3804.82	Dry	
	18-Jul-2011				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	
	13-Sep-2007				NM	
DX24	9-Dec-2011	391382.99	1519639.89	3803.73	Dry	
	18-Jul-2011				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	
	13-Sep-2007				NM	
DX25	9-Dec-2011	421480.90	1506896.42	3828.42	Dry	
	18-Jul-2011				Dry	
	18-Apr-2011				Dry	
	17-Jan-2011				6.12	3822.30
	15-Sep-2010				Dry	
	24-Jun-2010				Dry	
	22-Mar-2010				Dry	
	8-Dec-2009				Dry	
	28-Aug-2009				NM	
	27-May-2009				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[a]	Easting[a]	Reference Point Elevation[b]	Depth to Water[c]	Groundwater Elevation[b]
DX26	9-Dec-2011	419688.41	1509069.57	3833.96	Dry	
	19-Jul-2011				Dry	
	18-Apr-2011				Dry	
	17-Jan-2011				11.11	3822.85
	15-Sep-2010				Dry	
	24-Jun-2010				Dry	
	22-Mar-2010				Dry	
	8-Dec-2009				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	9-Dec-2011	418540.04	1509739.11	3825.33	Dry	
	18-Jul-2011				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	
	22-Mar-2010				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	9-Dec-2011	417290.39	1510464.06	3827.47	Dry	
	18-Jul-2011				Too Much debris to measure	
	18-Apr-2011				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	
	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	9-Dec-2011	416144.40	1511115.46	3823.15	Dry	
	18-Jul-2011				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	9-Dec-2011	141912.63	1511830.23	3824.93	Dry	
	18-Jul-2011				8.69	3816.24
	18-Apr-2011				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

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

Monitoring Well	Date Measured	Northing[a]	Easting[a]	Reference Point Elevation[b]	Depth to Water[c]	Groundwater Elevation[b]
DX31	9-Dec-2011	409811.34	1514758.21	3820.29	Dry	
	18-Jul-2011				Dry	
	18-Apr-2011				Dry	
	17-Jan-2011				6.22	3814.07
	15-Sep-2010				Dry	
	24-Jun-2010				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:
[a] Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)
[b] Vertical Control to NAVD88 Datum in feet above mean sea level
[c] Measured in feet (north side of drain)
[d] 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
GROUNDWATER SAMPLES				
Nitrate/Nitrite	EPA 300.0/SM 4500 NO3 E	250 mL HDPE Bottle	H_2SO_4 to pH,2, Cool to <6°C,	28 Days
Total Kjeldhal Nitrogen	SM 4500 NORG C	250 mL HDPE Bottle	H_2SO_4 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)
ABATEMENT PLAN MONITORING WELLS						
DAD-01	27-Oct-11	9.56	3.50	436	1,840	256
	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
NMED Split	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	27-Oct-11	8.30	2.52	380	1,360	475
	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
NMED Split	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 *	26-Oct-11	<0.500	3.22	1,790	5,420	1100
	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
NMED Split	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	26-Oct-11	<0.500	2.80	590	2,950	380
	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
NMED Split	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	26-Oct-11	<0.500	2.66	647	900	377
	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
NMED Split	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	27-Oct-11	9.20	<2.17	322	1,060	228
	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
NMED Split	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	26-Oct-11	5.22	2.24	591	750	426
	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
NMED Split	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	26-Oct-11	2.80	<2.17	1,260	2,500	471
	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
NMED Split	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	26-Oct-11	77.7	<2.17	728	1,600	433
	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
NMED Split	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	26-Oct-11	3.33	2.80	384	1,150	206
	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
NMED Split	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
DAD-11 (formerly 177-03)	27-Oct-11	<0.500	<2.17	434	1,290	215
	2-Aug-11	<0.500	<2.17	427	1,490	NA
	5-May-11	<0.500	<2.17	398	1,360	NA
	25-Jan-11	4.60	<2.05	386	1,500	NA
	21-Sep-10	3.21	<10.0	369	1,520	NA
	29-Jun-10	1.6	<1.0	430	1,610	NA
	28-Apr-10	1.5	<1.0	450	1,600	NA
	20-Jan-10	1.4	<1.0	460	1,600	NA
	21-Oct-09	1.0	<1.0	430	1,600	NA
	7-Jul-09	0.80	<1.0	470	1,500	NA
	6-May-09	0.97	3.5	450	1,600	NA
	22-Jan-09	1.00	<1.0	370	1,600	NA
NMWQCC Standard		**10**	**NA**	**250**	**1,000**	**600**

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.

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)
NORTHERN AREA					
Northern Land Application Area					
70-03	7-Nov-11	61.6	<2.17	3,270	7,910
	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	7-Nov-11	25.5	4.76	1,970	5,920
	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	7-Nov-11	11.6	3.08	593	2,910
	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
Former Daybreak Dairy (Del Norte Dairy)					
126-04	7-Nov-11	18.2	3.92	581	2,470
	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-Nov-11	31.2	<2.17	543	3,510
	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-Nov-11	19.8	<2.17	668	2,270
	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	7-Nov-11	3.30	5.6	1,130	3,470
	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-Nov-11	13.3	<2.17	430	2,600
	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	7-Nov-11	21.9	<2.17	735	3,060
	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)
Mountain View Dairy					
70-01	7-Nov-11	21.1	5.18	622	1,860
	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	7-Nov-11	37.7	<2.17	828	2,790
	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
Buena Vista Dairy I					
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
Bright Star Dairy					
340-01	4-Nov-11	26.6	4.34	691	2,910
	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	4-Nov-11	75.0	5.74	755	3,620
	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
Former D&J Dairy (Dominguez 2)					
42-02	09-Nov-11	21.2	3.08	449	2,170
	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	9-Nov-11	58.9	2.80	1,000	3,660
	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	9-Nov-11	101	<2.17	617	3,000
	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	9-Nov-11	57.9	<2.17	1,090	3,450
	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	9-Nov-11	40.0	<2.17	269	1,770
	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	9-Nov-11	47.8	<2.17	591	1,810
	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	8-Nov-11	<0.500	<2.17	425	1,510
	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	8-Nov-11	1.97	<2.17	334	1,480
	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	8-Nov-11	<0.500	<2.17	331	730
	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	9-Nov-11	61.5	<2.17	901	3,160
	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
Dominguez					
624-01	4-Nov-11	10.8	5.60	1,430	3,460
	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	4-Nov-11	10.7	3.5	1,300	4,060
	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	4-Nov-11	Dry			
	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	4-Nov-11	2.58	4.20	385	1,980
	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	4-Nov-11	29.5	8.68	1,040	2,860
	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	4-Nov-11	Not Sampled - insufficient water to sample			
	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	4-Nov-11	Dry			
	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
Gonzalez					
177-01	3-Nov-11	27.4	2.66	1,170	3,790
	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-Nov-11	32.7	<2.17	971	3,450
	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
177-03A	4-Nov-11	<0.500	3.50	436	1,850
177-04	3-Nov-11	27.5	<2.17	1,100	3,500
	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	3-Nov-11	30.6	<2.17	1,190	3,060
	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
177-06	7-Dec-11	15.1	<2.17	892	2,760
	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	4-Nov-11	29.3	2.66	1,050	2,830
	3-Aug-11	25.2	2.80	1,050	3,250
	7-Apr-11	21.4	2.52	1,070	8,660

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)
Central Area					
Buena Vista Dairy II					
74-01	3-Nov-11	64.6	<2.17	811	2,830
	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	3-Nov-11	26.3	<2.17	558	2,510
	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	3-Nov-11	27.6	<2.17	1,420	4,730
	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
74-04	3-Nov-11	13.4	<2.17	439	1,080
	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	3-Nov-11	17.9	<2.17	442	960
	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

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)
River Valley Dairy					
167-01	2-Nov-11	Not Sampled			
	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	2-Nov-11	11.2	4.62	1,080	3,620
	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	2-Nov-11	<0.500	3.64	432	650
	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	7.0	0.3	780	2,580
167-03	2-Nov-11	22.0	<2.17	564	2,150
	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	2-Nov-11	Not Sampled - insufficient water to sample			
	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

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)
167-05	2-Nov-11	3.89	3.64	782	2,560
	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	2-Nov-11	35.7	<2.17	716	3,390
	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	2-Nov-11	<0.500	<2.17	366	2,460
	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
167-08	2-Nov-11	1.93	<2.17	759	2,520
	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	3-Nov-11	7.53	8.40	988	3,590
	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

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)
Big Sky Dairy					
833-01	1-Nov-11	Dry			
	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	1-Nov-11	82.3	2.38	885	4,010
	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	1-Nov-11	Dry			
	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
833-04	1-Nov-11	43.4	<2.17	867	3,040
	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	1-Nov-11	12.2	2.24	1,150	2,580
	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

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)
833-06	2-Nov-11	28.8	3.08	688	1,900
	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	1-Nov-11	94.2	<2.17	1,090	3,840
	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	1-Nov-11	69.8	4.20	966	3,080
	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
833-09	1-Nov-11	93.0	<2.17	779	3,880
	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	1-Nov-11	3.69	<2.17	573	2,590
	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

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)
Sunset/Desert Land Dairy					
257-01	1-Nov-11	28.4	<2.17	619	2,730
	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	1-Nov-11	19.3	2.24	442	3,150
	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	1-Nov-11	7.37	2.80	537	2,210
	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
257/260-01	1-Nov-11	16.7	2.94	658	2,850
	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
McAnally Enterprises					
MW-4	13-Mar-09	3.5	<0.5	2,110	5,686

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

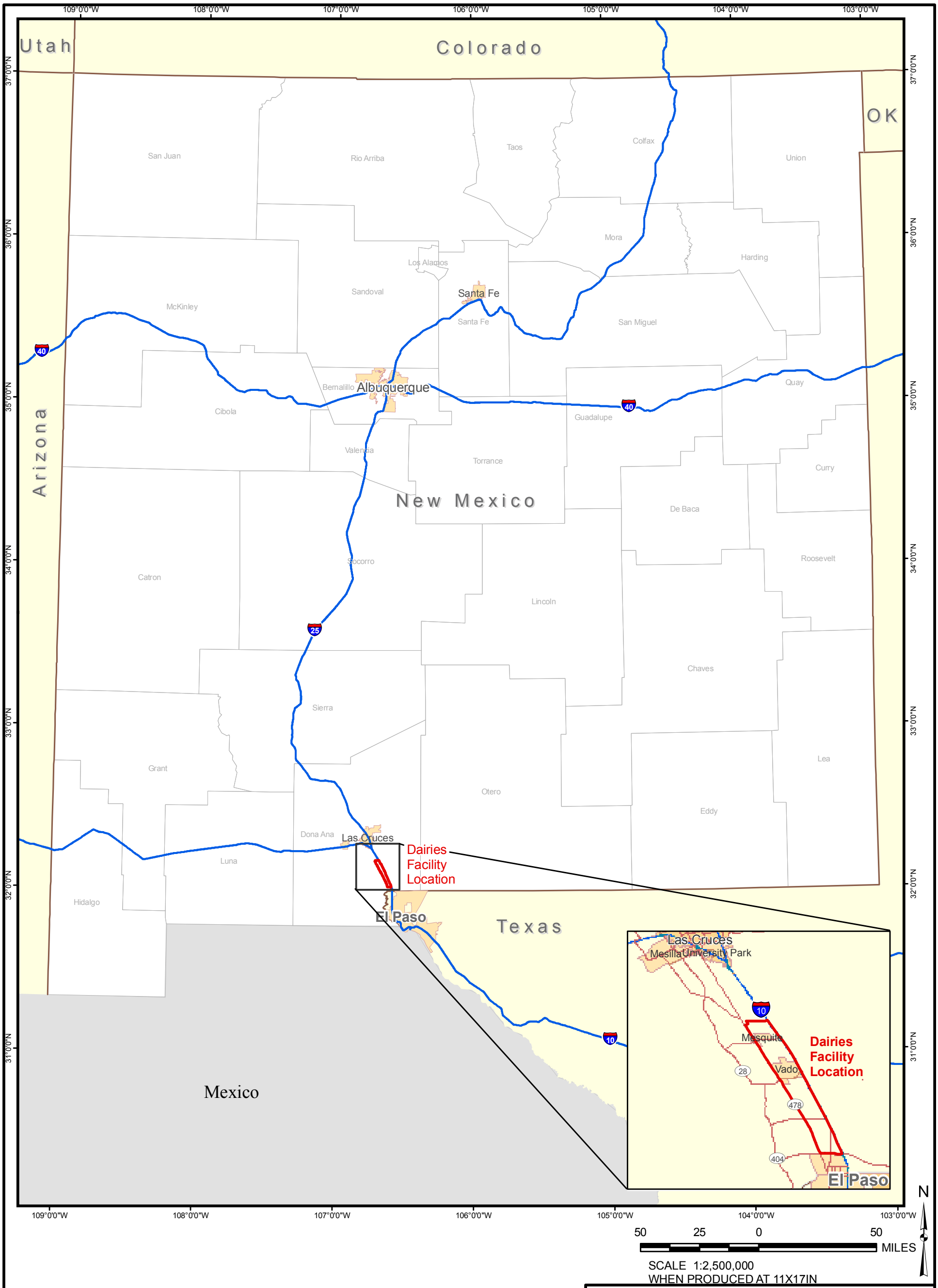
Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
SOUTHERN AREA					
Del Oro Dairy					
692-01	8-Nov-11	168	6.44	1,180	4,690
	29-Jul-11	176	<2.17	1,210	4,840
	22-Apr-11	140	3.22	998	3,880
	19-Jan-11	213	2.10	1,070	4,320
	1-Oct-10	222	<10.0	1,060	4,640
	30-Jun-10	230	<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	31-Oct-11	4.69	<2.17	451	1,720
	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	31-Oct-11	22.9	<2.17	477	1,600
	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	8-Nov-11	2.30	2.94	383	1,230
	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
692-06	8-Nov-11	6.46	<2.17	425	1,450
	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

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)
692-07	8-Nov-11	5.22	<2.17	555	780
	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	8-Nov-11	2.60	2.80	436	1,340
	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	8-Nov-11	10.6	<2.17	455	1,400
	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
NMWQCC Standard		**10**	**NA**	**250**	**1,000**

NOTES:
Data suspect
ND = Non-detect
NMWQCC = New Mexico Water Quality Control Commission
TDS = Total dissolved solids
TKN = Total Kjeldahl nitrogen
Highlight is at or above NMWQCC Standard

FIGURES



SCALE 1:2,500,000
WHEN PRODUCED AT 11X17IN

LEGEND:

Facility Boundary

REFERENCES
Base Data: ESRI, 2008.

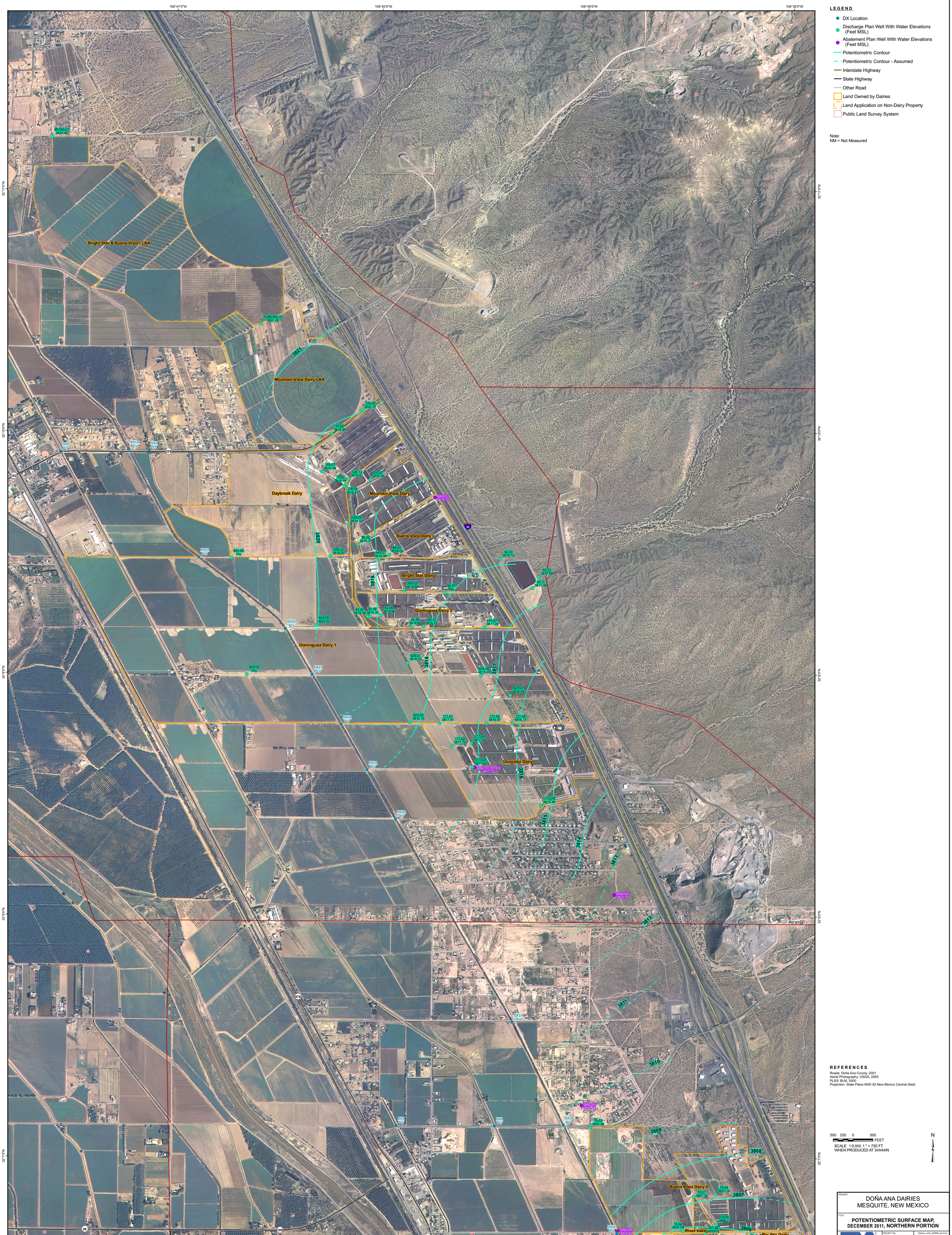
PROJECT

DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE

SITE LOCATION MAP

PROJECT No.		11x17_siteloc.mxd
DESIGN		SCALE AS SHOWN / REV 0
GIS		FIGURE 1
CHECK		
REVIEW		



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)

500 250 0 500 FEET
SCALE 1:9,000 1 " = 750 FT
WHEN PRODUCED AT 34X44IN

N

PROJECT
DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE
POTENTIOMETRIC SURFACE MAP, DECEMBER 2011, NORTHERN PORTION

PROJECT No.			Dairies_north_200906_pot.mxd
DESIGN		SCALE	AS SHOWN REV 0
DD			FIGURE 2
CHECK			
REVIEW			

106°39'0"W | 106°38'0"W | 106°37'0"W

32°7'0"N | 32°6'0"N | 32°5'0"N | 32°4'0"N | 32°3'0"N

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)

Buena Vista Dairy II
River Valley Dairy
Big Sky Dairy
River Valley Dairy LAA
Sunset Dairy

3810 | 3809 | 3808 | 3807 | 3806 | 3805 | 3804 | 3803 | 3802 | 3801 | 3800

DX5 Dry | DX4 Dry | DX3 Dry | DX20 Dry | DX6 NM | DX8 Dry | DX21 Dry | DX22 Dry | DX24 Dry | DX9 NM | DX10 NM | DX11 Dry | DX12 Dry | DX17 Dry

DAD-03 3809.68 | DAD-04 3807.63 | DAD-06 3805.16 | DAD-07 3802.03 | DAD-05 3801.96 | DAD-08 3799.05

74-03 3809.68 | 74-04 3807.19 | 74-01 3807.38 | 74-05 3806.17 | 74-02 3805.09 | 167-06 3805.74 | 167-03 3803.93 | 833-04 3804.24 | 167-01 3803.88 | 167-07 3803.63 | 167-01A 3803.75 | 167-02 3803.72 | 167-04 3803.59 | 833-06 3804.79 | 833-03 Dry | 833-02 3802.94 | 167-08 3802.44 | 833-01 Dry | 833-05 3801.88 | 833-07 3801.44 | 167-09 3802.56 | 833-09 3801.19 | 257-03 3803.45 | 167-05 3801.34 | 257/260-01 3801.25 | 833-10 3800.81 | 257-01 3800.15 | 257-02 3799.29 | Bruce 1

REFERENCES

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

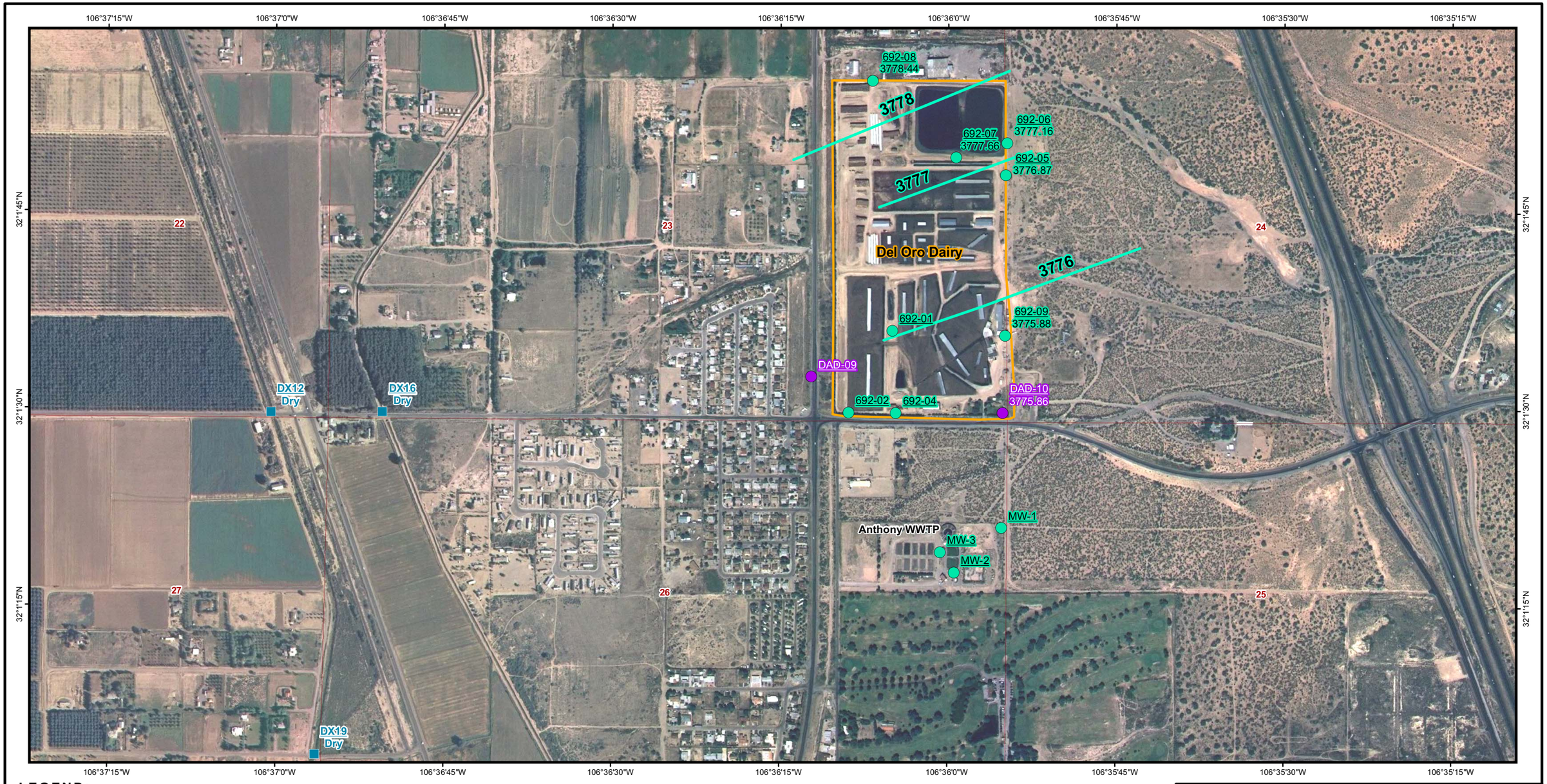
500 250 0 500 FEET
SCALE 1:9,000 1" = 750 FT
WHEN PRODUCED AT 34X44IN

N

PROJECT
DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE
POTENTIOMETRIC SURFACE MAP, DECEMBER 2011, CENTRAL PORTION

PROJECT No.			Dairies_central_200908_pot.mxd
DESIGN			SCALE AS SHOWN REV 0
GIS			FIGURE 3
CHECK			
REVIEW			



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

400 200 0 400
FEET

SCALE 1:9,000 1 " = 750 FT
WHEN PRODUCED AT 11X17IN

N

REFERENCES

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

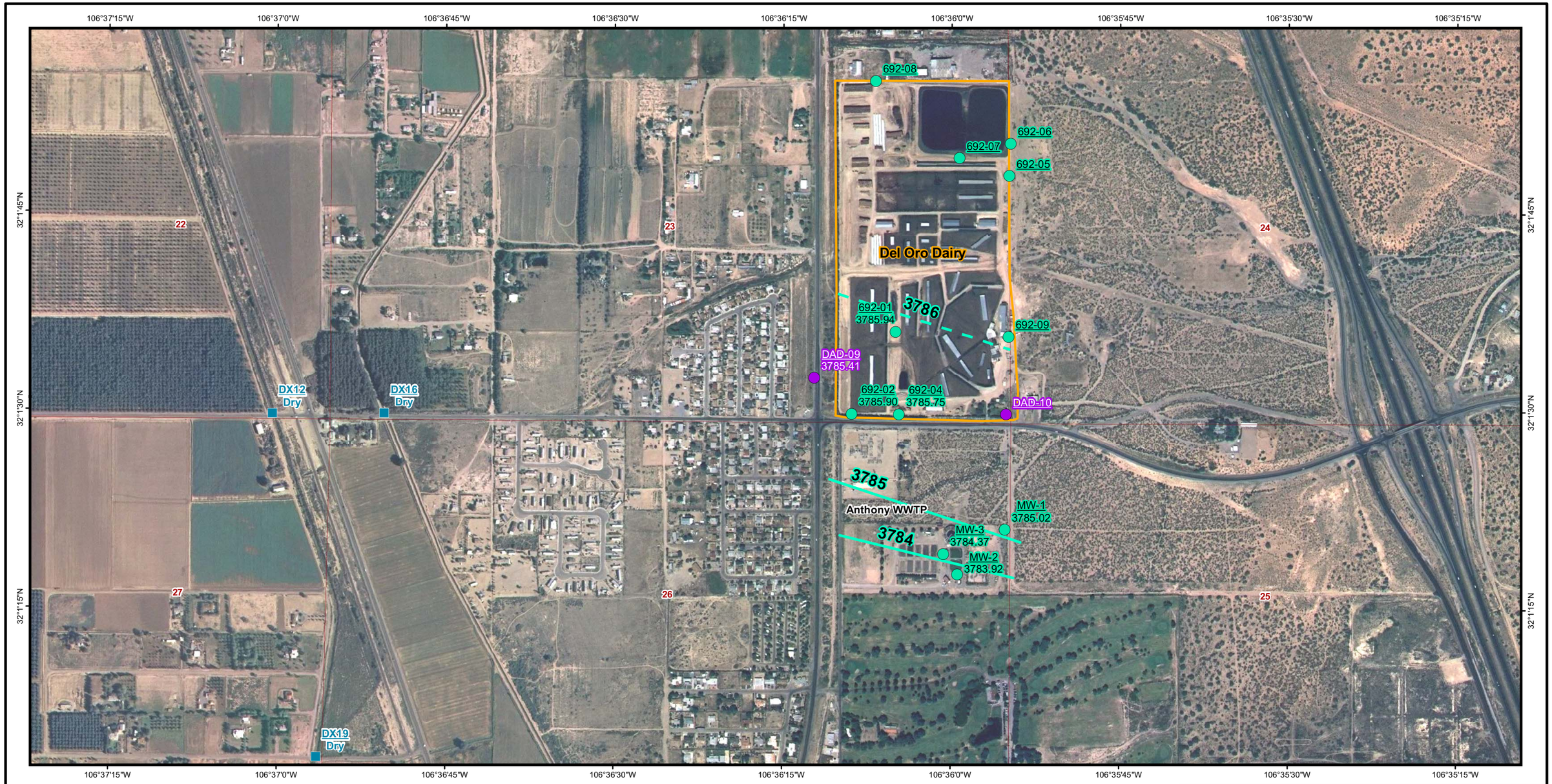
PROJECT

DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE

POTENTIOMETRIC SURFACE MAP, DECEMBER 2011, SOUTHERN PORTION REGIONAL AQUIFER

PROJECT No.			deloro_pot_regional200908.mxd
DESIGN			SCALE AS SHOWN / REV 0
GIS			FIGURE 4
CHECK			
REVIEW			



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

400 200 0 400
FEET

SCALE 1:9,000 1 " = 750 FT
WHEN PRODUCED AT 11X17IN

N

REFERENCES
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, DECEMBER 2011, SOUTHERN PORTION PERCHED AQUIFER

PROJECT No.			deloro_pot_regional200908.mxd
DESIGN			SCALE AS SHOWN REV 0
GIS			
CHECK			FIGURE 5
REVIEW			

106°40'0"W

106°39'0"W

32°10'0"N

32°8'0"N

Bright Star & Buena Vista I LAA

Mountain View Dairy LAA

Daybreak Dairy

Mountain View Dairy

Buena Vista Dairy I

Bright Star Dairy

Dominguez Dairy 2

Dominguez Dairy 1

Gonzalez Dairy

70/86/340-01
NO3: 21.1
Cl: 1970
TDS: 5920

126-03
NO3: 214
Cl: 1130
TDS: 3470

70-03
NO3: 1616
Cl: 1270
TDS: 7910

126-07
NO3: 1394
Cl: 659
TDS: 2270

126-04
NO3: 1363
Cl: 591
TDS: 2470

126-13
NO3: 2.41
Cl: 135
TDS: 1060

70-01
NO3: 21.1
Cl: 422
TDS: 1880

70-02
NO3: 1767
Cl: 828
TDS: 2790

DAD-01
NO3: 9.46
Cl: 430
TDS: 1840

126-05
NO3: 2.42
Cl: 543
TDS: 3610

86-02
Not Sampled

86-01
Not Sampled

126-12
NO3: 1.93
Cl: 430
TDS: 2000

624-03
Dry

340-01
NO3: 7.89
Cl: 691
TDS: 2910

42-10
NO3: <0.500
Cl: 425
TDS: 1310

42-12
NO3: <0.500
Cl: 331
TDS: 730

42-11
NO3: 1.47
Cl: 330
TDS: 1400

340-02
NO3: 75
Cl: 1755
TDS: 3020

42-07
NO3: 1.40
Cl: 1090
TDS: 3450

42-02
NO3: 21.2
Cl: 449
TDS: 2170

42-06
NO3: 201
Cl: 617
TDS: 1000

42-08
NO3: 40
Cl: 269
TDS: 1470

624-05
NO3: 2.58
Cl: 385
TDS: 1030

42-09
NO3: 47.8
Cl: 691
TDS: 1910

42-13
NO3: 61.5
Cl: 901
TDS: 1490

42-03
NO3: 1.58
Cl: 1000
TDS: 3160

624-01
NO3: 108
Cl: 1430
TDS: 3460

624-04
Dry

624-06
NO3: 7.84
Cl: 1000
TDS: 2880

624-07
Not Sampled
Insufficient Water

624-02
NO3: 187
Cl: 1200
TDS: 2080

177-01
NO3: 7.24
Cl: 1570
TDS: 4700

177-05
NO3: 110.0
Cl: 1190
TDS: 3080

177-06
NO3: 3.16
Cl: 892
TDS: 2760

177-02
NO3: 13.7
Cl: 971
TDS: 3450

177-04
NO3: 2.72
Cl: 1100
TDS: 3500

DAD-11(177-03)
NO3: <0.500
Cl: 434
TDS: 1200

177-03A
NO3: <0.500
Cl: 436
TDS: 1350

177-07
Plugged and
Abandoned

177-07R
NO3: 1.23
Cl: 1050
TDS: 2830

DAD-02
NO3: 18.1
Cl: 380
TDS: 1300

478

228

10

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 0 500 FEET

SCALE 1:4,800 1 " = 400 FT
WHEN PRODUCED AT 34X44IN

N

PROJECT
DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE **GROUND WATER ANALYTICAL RESULTS, DECEMBER 2011, NORTHERN PORTION**

PROJECT No.			north_201209_analytical.mxd
DESIGN			SCALE AS SHOWN REV 0
GIS			
CHECK			FIGURE 6
REVIEW			

106°39'0"W

106°38'0"W

32°7'0"N

32°6'0"N

32°5'0"N

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

DAD-03
NO3: 0.500
Cl: 1750
TDS: 5420

74-03
NO3: 27.6
Cl: 1420
TDS: 4730

Buena Vista Dairy II

74-01
NO3: 54.6
Cl: 811
TDS: 2930

74-04
NO3: 13.4
Cl: 430
TDS: 1000

74-05
NO3: 17.9
Cl: 442
TDS: 1450

DAD-04
NO3: 0.500
Cl: 590
TDS: 2950

74-02
NO3: 126
Cl: 1000
TDS: 2510

167-06
NO3: 7.67
Cl: 716
TDS: 3300

DAD-06
NO3: 12.2
Cl: 322
TDS: 1060

167-03
NO3: 122
Cl: 564
TDS: 2150

833-04
NO3: 43.4
Cl: 867
TDS: 3040

167-07
NO3: 0.500
Cl: 366
TDS: 2460

167-01A
NO3: 11.2
Cl: 1080
TDS: 3620

167-01
Not Sampled

167-02
NO3: 0.500
Cl: 432
TDS: 650

167-04
Not Sampled
Insufficient Water

833-06
NO3: 28.9
Cl: 688
TDS: 1800

River Valley Dairy

833-03
Dry

833-02
NO3: 823
Cl: 885
TDS: 4010

Big Sky Dairy

833-08
NO3: 69.8
Cl: 966
TDS: 1080

833-05
NO3: 12.2
Cl: 1150
TDS: 2580

833-01
Dry

DAD-07
NO3: 5.72
Cl: 991
TDS: 3750

167-08
NO3: 1.93
Cl: 750
TDS: 2270

833-07
NO3: 1.42
Cl: 1090
TDS: 3840

River Valley Dairy LAA

167-09
NO3: 7.53
Cl: 983
TDS: 3590

833-09
NO3: 33
Cl: 779
TDS: 3880

257-03
NO3: 1.37
Cl: 537
TDS: 2210

167-05
NO3: 1.89
Cl: 782
TDS: 2580

257/260-01
NO3: 16.7
Cl: 658
TDS: 2330

DAD-05
NO3: 0.500
Cl: 647
TDS: 900

833-10
NO3: 1.60
Cl: 1570
TDS: 2990

Sunset Dairy

257-01
NO3: 1.74
Cl: 619
TDS: 2730

DAD-08
NO3: 7.18
Cl: 1260
TDS: 2490

257-02
NO3: 1.03
Cl: 742
TDS: 3150

McAnally Enterprises

REFERENCES

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

500 250 0 500 FEET

SCALE 1:4,800 1 " = 400 FT
WHEN PRODUCED AT 34X44IN

N

PROJECT
DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE **GROUND WATER ANALYTICAL RESULTS DECEMBER 2011, CENTRAL PORTION**

PROJECT No.			central_201209_analytical.mxd
DESIGN			SCALE AS SHOWN REV 0
DR			FIGURE 7
CHECK			
REVIEW			

SCALE 1:4,800 1 " = 400 FT
WHEN PRODUCED AT 11X17IN

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

DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE **GROUNDWATER ANALYTICAL RESULTS NOVEMBER 2011, SOUTHERN PORTION, REGIONAL AQUIFER**

PROJECT No.			analytical_regional200908.mxd
DESIGN			SCALE AS SHOWN REV 0
GIS			
CHECK			FIGURE 8
REVIEW			

106°36'15"W 106°36'0"W 106°35'45"W

32°2'0"N 32°1'45"N 32°1'30"N 32°1'15"N

692-08
692-06
692-07
692-05
692-01
NO3: 168
Cl: 1180
TDS: 4690
692-09
DAD-09
NO3: 777
Cl: 728
TDS: 1600
692-02
NO3: 4.69
Cl: 451
TDS: 1720
692-04
NO3: 22.9
Cl: 477
TDS: 1600
DAD-10
MW-1
Not Sampled
MW-3
Not Sampled
MW-2
Not Sampled

23 24 26 25

Del Oro Dairy

Anthony WWTP

400 200 0 400
FEET

SCALE 1:4,800 1 " = 400 FT
WHEN PRODUCED AT 11X17IN

N

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

DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

TITLE **GROUNDWATER ANALYTICAL RESULTS NOVEMBER 2011, SOUTHERN PORTION, PERCHED AQUIFER**

PROJECT No.		deloro_analytical_perched200908.mxd
DESIGN		SCALE AS SHOWN REV 0
GIS		
CHECK		FIGURE 9
REVIEW		

APPENDIX A
SAMPLING FIELD FORMS

ATTACHMENT D

MONITOR WELL FLUID GAUGING FIELD FORM

DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
NORTHERN AREA						
Northern Land Application Area (DP-340)						
70-03	424580.78	1510233.88	12/8/11	8:55	51.49	65.27
70/86/340-01	427320.92	1508461.05	12/8/11	8:33	45.17	67.69
86/340-01	432021.33	1503216.90	12/8/11	8:17	51.20	71.10
Del Norte Dairy (DP-126)						
126-04	423258.23	1510546.24	12/8/11	9:42	30.84	38.23
126-05	422293.26	1510649.84	12/8/11	9:51	23.50	30.92
126-07	423613.62	1509986.47	12/8/11	9:28	31.28	38.45
126-09	425154.15	1510994.31	12/8/11	9:10	73.34	81.80
126-12	421492.11	1510198.45	12/8/11	10:00	19.55	29.97
126-13	423431.96	1510657.41	12/8/11	9:35	37.86	59.77
Mountain View Dairy (DP-70)						
70-01	423303.43	1510585.63	12/8/11	9:46	32.40	45.69
70-02	423412.73	1511192.51	12/8/11	10:10	41.89	49.79
Buena Vista Diary I (DP-86)						
86-01	421534.62	1511667.76	12/8/11	10:54	46.22	54.38
86-02	421792.08	1510881.53	12/8/11	10:27	28.77	48.42
Bright Star Dairy (DP-340)						
340-01	421410.13	1511423.42	12/8/11	10:49	39.54	47.29
340-02	420641.08	1512051.57	12/8/11	10:41	51.07	56.85
Gonzalez Dairy (DP-177)						
177-01	417300.94	1512942.63	12/7/11	15:31	16.36	25.54
177-02	416738.21	1513246.51	12/7/11	15:42	16.92	25.59
177-03R	416211.35	1513814.71	12/7/11	15:53	22.97	46.48
177-04/05	416796.99	1513733.28	12/7/11	15:25	35.19	49.14
177-06	417302.42	1514116.55	12/7/11	14:59	49.85	51.82 Not Enough to Purge & Sample/Monitor
~~177-06~~	~~417301.84~~	~~1514765.63~~				
177-07R	415258.95	1515471.64	12/7/11	16:08	43.46	54.48
Dominguez 2 Dairy (DP-42)						
42-02	419982.45	1511126.19	12/8/11	10:15	25.35	62.94
42-03	419710.55	1514064.35	12/8/11	9:40	81.26	96.08
42-06	420021.61	1511465.15	12/8/11	10:22	31.19	40.39
42-07	420584.80	1513076.66	12/8/11	10:33	D	75.45 Dry
42-08	419994.93	1511197.91	12/8/11	10:11	27.33	33.93
42-09	419729.17	1512255.76	12/8/11	9:01	46.76	56.76
42-10	421426.39	1514460.40	12/8/11	11:06	111.16	NO TD has pump
42-11	420693.98	1515270.32	12/8/11	10:52	121.83	NO TD has pump
42-12	420972.09	1515423.88	12/8/11	10:58	128.14	NO TD has pump
42-13	419734.06	1512534.42	12/8/11	9:59	54.83	62.34

ATTACHMENT D
MONITOR WELL FLUID GAUGING FIELD FORM
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
Dominguez Dairy (DP-624)						
624-01	418826.21	1512131.46	12/7/11	16:00	25.19	49.37
624-02	417335.25	1512201.42	12/7/11	16:07	17.30	40.08
624-04	418542.24	1508104.07	12/8/11	8:20	∅	19.14 DRY
624-05	419777.52	1509829.65	12/7/11	16:15	15.85	19.90
624-06	418502.42	1513981.08	12/7/11	15:55	49.99	55.06
624-07	418012.23	1514707.77	12/8/11	8:06	55.44	58.38
624-08	421461.78	1507712.04	12/8/11	8:25		21.89 DRY
CENTRAL AREA						
Buena Vista Diary II (DP-74)						
74-01	405434.93	1519310.15	12/8/11	13:26	33.63	45.25
74-02	404574.08	1519035.52	12/8/11	13:40	15.49	20.28
74-03	407163.61	1516711.72	12/8/11	12:02	13.70	20.28
74-04	405488.65	1519864.48	12/8/11	13:09	45.98	58.36
74-05	404747.71	1519885.30	12/8/11	13:30	39.18	52.54
River Valley Dairy (DP-167)						
167-01	402518.37	1518459.71	12-8-11	13:33	15.06	108.61
167-01A	402518.18	1518936.72	12-8-11	14:30	14.40	27.97
167-02	402498.30	1519354.81	12-8-11	14.31	15.92	23.63
167-03	402981.73	1519415.73	12-8-11	13:18	21.73	43.49
167-04	402032.19	1519884.60	12-8-11	14:47	24.01	31.05
167-05	397947.44	1520446.03	12-8-11	14:08	24.79	35.96
167-06	404479.35	1519603.88	12-8-11	13:09	29.10	38.00
167-07	402562.23	1518480.34	12-8-11	13:25	15.45	29.43
167-08	399352.96	1519889.65	12-8-11	13:58	15.52	33.96
167-09	398473.95	1519259.34	12-8-11	14:20	14.42	20.49
Big Sky Dairy (DP-833)						
833-01	399617.23	1521136.33	12/8/11	15:10	∅	36.70 DRY
833-02	401200.32	1520639.92	12/8/11	16:03	33.08	57.58
833-03	401392.09	1521955.23	12/8/11	14:35	∅	62.53 DRY
833-04	402898.52	1520659.33	12/8/11	16:18	41.55	54.06
833-05	399712.39	1522374.73	12/8/11	14:52	63.63	73.96
833-06	402219.48	1522652.04	12/8/11	17:28	73.41	85.14
833-07	399298.80	1522082.75	12/8/11	14:39	59.26	73.52
833-08	400535.64	1521938.23	12/8/11	14:41	58.96	72.98
833-09	398280.67	1520918.52	12/8/11	15:23	25.08	39.72
833-10	396715.89	1520283.60	12/8/11	15:33	19.95	37.29
Sunset/Desert Land Dairy (DP-257)						
257-01	395856.31	1520572.16	12/8/11	15:27	20.18	28.64
257-02	394728.34	1521030.29	12-8-11	15:35	14.38	23.50
257-03	397935.69	1518746.14	12-8-11	15:42	10.07	14.56
257/260-01	397678.36	1519948.22	12-8-11	15:55	10.51	20.33
SOUTHERN AREA						
Del Oro Dairy (DP-692)						
692-01	373615.88	1531529.38	12-9-11	8:48	58.19	— NO TD - Pump
692-02	372984.72	1531192.10	12-9-11	7:45	54.81	66.35
692-04	372982.53	1531555.21	12-9-11	7:35	56.91	60.69
692-05	374807.26	1532403.00	12-9-11	8:11	77.35	NO TD hes Pump
692-06	375054.77	1532411.83	12-9-11	8:17	79.32	NO TD - Pump
692-07	374944.88	1532019.81	12-9-11	8:21	70.92	" "
692-08	375535.69	1531378.09	12-9-11	8:35	64.65	" "
692-09	373575.83	1532395.09	12-9-11	8:55	80.44	" "
ADDITIONAL WELLS AND DRAIN CROSSINGS (DAD)						

ATTACHMENT D

MONITOR WELL FLUID GAUGING FIELD FORM

DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
Bruce1	388741.02	1523777.06	3808.92			Destroyed
Bruce2	NM	NM	NM			Destroyed
Anthony Waste Water Treatment Plant (DAD)						
MW-1	372097.86	1532364.36	12-9-11	10:15	58.01	61.46
MW-2	NM	NM	12-9-11	10:04	57.33	63.97
MW-3	NM	NM	12-9-11	9:59	56.87	58.60
ABATEMENT PLAN MONITOR WELLS						
DAD-01	422970.59	1512825.76	12/8/11	10:20	67.41	76.48
DAD-02	413002.98	1517319.93	12/8/11	11:45	63.07	67.94
DAD-03	407721.31	1516497.85	12/8/11	11:55	10.70	14.76
DAD-04	404576.66	1517413.28	12/8/11	13:50	13.84	18.21
DAD-05	396712.87	1519102.06	12/8/11	15:35	14.05	23.87
DAD-06	404273.19	1522081.00	12/8/11	14:05	81.55	83.50
DAD-07	399270.18	1524320.88	12/8/11	16:32	89.35	100.91
DAD-08	395287.38	1522575.07	12/8/11	15:40	45.21	56.11
DAD-09	373259.30	1530905.70	12/9/11	9:20	54.10	63.36
DAD-10	372980.55	1532375.33	12-9-11	7:50	79.03	94.72
DAD-11			12-9-11	12:40	23.50	48.37
DAD-12			12/6/11	15:35	48.15	52.36
DAD-13			12/8/11	11:38	~~45.24~~	82.88 | 94.91
DAD-14			12/8/11	11:49	26.30	45.14
DAD-15						Not installed yet
DAD-16			12/8/11	13:44	~~16.58~~	16.58 | 35.49
DAD-17			12-9-11	13:52	19.21	25.07
DAD-18			12/6/11	15:07	21.43	56.99
DAD-19			12/6/11	14:28	62.29	99.21
DAD-20			12/6/11	14:05	50.66	69.03
DAD-21			12/6/11	13:50	53.24	70.54
DAD-22			12-9-11	9:50	51.36	68.39
DRAIN CROSSINGS						
DX1	424166.25	1505650.06	12-9-11	11:50	Dry	6.97
DX1w	424185.98	1505134.10	12-9-11	11:53	Dry	9.19
DX2	424132.59	1503432.16	12-9-11	12:50	Dry	8.20
DX3	407227.41	1516041.38	12-9-11	13:10	Dry	6.92
DX4	407211.53	1514313.56	12-9-11	13:06	Dry	6.89
DX5	407220.67	1511845.72	12/9/11	13:35	Dry	6.09
DX8	399295.54	1519306.03	12-9-11	12:30	Dry	3.51
DX10	388729.50	1521819.50	12-9-11	14:20	4.74	4.95 — NOT correct
DX11	388713.30	1522640.15	12-9-11	14:22	Dry	3.13
DX12	372993.14	1526753.61	12-9-11	14:54	Dry	5.26
DX16	372996.10	1527610.40	12-9-11	14:41	Dry	10.08
DX17	378284.74	1524969.06	12-9-11	14:29	Dry	5.37
DX18	383440.21	1522863.03	12-9-11	14:26	Dry	6.09
DX19	370359.76	1527083.49	12-9-11	15:01	Dry	6.53
DX20	404509.20	1517383.56	12-9-11	13:20	Dry	3.35
DX21 - adj.	397941.90	1519301.66	12-9-11	13:43	Dry	8.95
DX22	396687.18	1519046.47	12-9-11	13:48	Dry	4.02
DX23	394041.08	1518228.68	12-9-11	12:56	Dry	5.47
DX24	391382.99	1519639.89	12-9-11	14:15	Dry	5.17
DX25	421480.90	1506896.42	12-9-11	12:07	Dry	14.13
DX26	419688.41	1509069.57	12-9-11	12:13	Dry	11.11
DX27	418540.04	1509739.11	12-9-11	12:28	Dry	4.65
DX28	417290.39	1510464.06	12-9-11	12:30	Dry	6.01
DX29	416144.40	1511115.46	12-9-11	12:42	Dry	4.40

ATTACHMENT D

MONITOR WELL FLUID GAUGING FIELD FORM

DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
DX30	141912.63	1511830.23	12-9-11	12:46	Dry	60.89
DX31	409811.34	1514758.21	12-9-11	12:56	Dry	60.37

NOTES:

[a] Horizontal Control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

[b] Measured in feet below the top of casing at survey point on north side of well

Dry = well has historically been dry well and is not sampled or gauged.

ATTACHMENT D

MONITOR WELL FLUID GAUGING FIELD FORM

DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
NORTHERN AREA						
Northern Land Application Area (DP-340)						
70-03	424580.78	1510233.88				
70/86/340-01	427320.92	1508461.05				
86/340-01	432021.33	1503216.90				
Del Norte Dairy (DP-126)						
126-04	423258.23	1510546.24				
126-05	422293.26	1510649.84				
126-07	423613.62	1509986.47				
126-09	425154.15	1510994.31				
126-12	421492.11	1510198.45				
126-13	423431.96	1510657.41				
Mountain View Dairy (DP-70)						
70-01	423303.43	1510585.63				
70-02	423412.73	1511192.51				
Buena Vista Diary I (DP-86)						
86-01	421534.62	1511667.76				
86-02	421792.08	1510881.53				
Bright Star Dairy (DP-340)						
340-01	421410.13	1511423.42				
340-02	420641.08	1512051.57				
Gonzalez Dairy (DP-177)						
177-01	417300.94	1512942.63	12/13/11	9:50	16.46	25.50
177-02	416738.21	1513246.51	12/13/11	10:03	17.09	25.57
177-03A	416211.35	1513814.71	12/13/11	10:26	18.51	
177-04	416796.99	1513733.28				
177-05	417302.42	1514116.55				
177-06	417301.84	1514765.63				
177-07R	415258.95	1515471.64				
Dominguez 2 Dairy (DP-42)						
42-02	419982.45	1511126.19				
42-03	419710.55	1514064.35				
42-06	420021.61	1511465.15				
42-07	420584.80	1513076.66				
42-08	419994.93	1511197.91				
42-09	419729.17	1512255.76				
42-10	421426.39	1514460.40				
42-11	420693.98	1515270.32				
42-12	420972.09	1515423.88				
42-13	419734.06	1512534.42				

ATTACHMENT D
MONITOR WELL FLUID GAUGING FIELD FORM
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
Dominguez Dairy (DP-624)						
624-01	418826.21	1512131.46				
624-02	417335.25	1512201.42				
624-04	418542.24	1508104.07				
624-05	419777.52	1509829.65	12/13/11	10:46	15.25	
624-06	418502.42	1513981.08	12/13/11	10:58	50.89	
624-07	418012.23	1514707.77	12/13/11	11:10	55.46	
624-08	421461.78	1507712.04				
CENTRAL AREA						
Buena Vista Diary II (DP-74)						
74-01	405434.93	1519310.15				
74-02	404574.08	1519035.52				
74-03	407163.61	1516711.72				
74-04	405488.65	1519864.48				
74-05	404747.71	1519885.30				
River Valley Dairy (DP-167)						
167-01	402518.37	1518459.71				
167-01A	402518.18	1518936.72	12/13/11	1137	15.13	
167-02	402498.30	1519354.81				
167-03	402981.73	1519415.73				
167-04	402032.19	1519884.60				
167-05	397947.44	1520446.03	12/13/11	11:53	14.10	22.38
167-06	404479.35	1519603.88				
167-07	402562.23	1518480.34				
167-08	399352.96	1519889.65				
167-09	398473.95	1519259.34				
Big Sky Dairy (DP-833)						
833-01	399617.23	1521136.33				
833-02	401200.32	1520639.92				
833-03	401392.09	1521955.23				
833-04	402898.52	1520659.33				
833-05	399712.39	1522374.73				
833-06	402219.48	1522652.04				
833-07	399298.80	1522082.75				
833-08	400535.64	1521938.23				
833-09	398280.67	1520918.52				
833-10	396715.89	1520283.60				
Sunset/Desert Land Dairy (DP-257)						
257-01	395856.31	1520572.16				
257-02	394728.34	1521030.29				
257-03	397935.69	1518746.14				
257/260-01	397678.36	1519948.22				
SOUTHERN AREA						
Del Oro Dairy (DP-692)						
692-01	373615.88	1531529.38				
692-02	372984.72	1531192.10	12/13/11	13:48	54.94	
692-04	372982.53	1531555.21				

ATTACHMENT D

MONITOR WELL FLUID GAUGING FIELD FORM

DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
692-05	374807.26	1532403.00				
692-06	375054.77	1532411.83				
692-07	374944.88	1532019.81	12/13/11	13:35	70.54	
692-08	375535.69	1531378.09				
692-09	373575.83	1532395.09				
ADDITIONAL WELLS AND DRAIN CROSSINGS (DAD)						
Bruce1	388741.02	1523777.06	3808.92			
Bruce2	NM	NM	NM		Destroyed	
Anthony Waste Water Treatment Plant (DAD)						
MW-1	372097.86	1532364.36				
MW-2	NM	NM				
MW-3	NM	NM				
ABATEMENT PLAN MONITOR WELLS						
DAD-01	422970.59	1512825.76				
DAD-02	413002.98	1517319.93				
DAD-03	407721.31	1516497.85				
DAD-04	404576.66	1517413.28				
DAD-05	396712.87	1519102.06				
DAD-06	404273.19	1522081.00				
DAD-07	399270.18	1524320.88				
DAD-08	395287.38	1522575.07	12/13/11	12:31	50.12	54.51
DAD-09	373259.30	1530905.70	12/13/11	14:03	52.62	
DAD-10	372980.55	1532375.33	12/13/11	13:53	79.07	
DAD-11			12/13/11	10:24	18.75	
DAD-12						
DAD-13						
DAD-14						
DAD-15						Not installed yet
DAD-16						
DAD-17						
DAD-18						
DAD-19						
DAD-20						
DAD-21						
DAD-22			12/13/11	14:17	43.27	50.08
DRAIN CROSSINGS						
DX1	424166.25	1505650.06				
DX1w	424185.98	1505134.10				
DX2	424132.59	1503432.16				
DX3	407227.41	1516041.38				
DX4	407211.53	1514313.56				
DX5	407220.67	1511845.72				
DX8	399295.54	1519306.03				
DX10	388729.50	1521819.50				
DX11	388713.30	1522640.15				
DX12	372993.14	1526753.61				
DX16	372996.10	1527610.40				

ATTACHMENT D

MONITOR WELL FLUID GAUGING FIELD FORM

DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

Monitoring Well	Northing[a]	Easting[a]	Date	Time	Depth to Water (ft)[b]	Notes or Total Depth (ft)[b]
DX17	378284.74	1524969.06				
DX18	383440.21	1522863.03				
DX19	370359.76	1527083.49				
DX20	404509.20	1517383.56				
DX21 - adj.	397941.90	1519301.66				
DX22	396687.18	1519046.47				
DX23	394041.08	1518228.68				
DX24	391382.99	1519639.89				
DX25	421480.90	1506896.42				
DX26	419688.41	1509069.57				
DX27	418540.04	1509739.11				
DX28	417290.39	1510464.06				
DX29	416144.40	1511115.46				
DX30	141912.63	1511830.23				
DX31	409811.34	1514758.21				

NOTES:

[a] Horizontal Control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

[b] Measured in feet below the top of casing at survey point on north side of well

Dry = well has historically been dry well and is not sampled or gauged.

ATTACHMENT E

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: 833-01 | Date gauged: 11/1/11

Site: Big Sky | Time gauged: 13:56

Depth to PSH: _____ Feet | Well diameter: 4 Inches

Depth to water: dry Feet | Height of fluid column: _____ Feet

Total depth: 36.33 Feet | Volume in well: _____ Gallons

(3 well volumes = _____ 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 _____ gal. | Field measurements stabilized within ± 10%? _____

Time/date sampled: ✓ | Purged/sampled by: Reuss

Sample method: ✓ well dry

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	11/1/11		
Site	Big Sky	Time gauged	10:25		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	33.63	Feet	Height of fluid column	23.82	Feet
Total depth	57.45	Feet	Volume in well	15.72	Gallons

(3 well volumes = 47.16 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:35 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS ~~DO (mg/L)~~
14:57	25	22.7	5518	7.78	172	4347
15:04	35	21.3	5552	7.97	153	4375
15:17	45	21.4	5506	7.98	151	4416
15:21	50	21.0	5596	7.73	147	4416
15:28	55	21.2	5582	[illegible]	138	4503

Ph 7.64

Actual purge volume 55 gal. Field measurements stabilized within ± 10%? _____

Time/date sampled 15:30 11/1/11 Purged/sampled by Ansel N. Rivera

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: 833-03

Site: Big Sky

Date gauged: 11/1/11

Time gauged: 10:45

Depth to PSH: _____ Feet

Depth to water: well dry Feet

Total depth: 62.55 Feet

Well diameter: _____ Inches

Height of fluid column: _____ Feet

Volume in well: _____ Gallons

(3 well volumes = _____ 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 _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled: _____ Purged/sampled by: _____

Sample method: _____

Requested analyses: _____

Comments/observations: Well is dry

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	11/1/11	
Site	Big Sky	Time gauged	3:07	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	42.07	Feet	Height of fluid column	12.66	Feet
Total depth	54.73	Feet	Volume in well	8.35	Gallons

(3 well volumes = 25.10 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 3:07 11/1/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
3:56	20	21.8	5036	7.77	48	3882
4:00	23	21.0	5020	7.58	59	3880
4:02	25	20.6	5014	7.50	42	3881

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

Time/date sampled 16:05 11/1/11 Purged/sampled by Gabriel Morales

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	833-05	Date gauged	11/1/11		
Site	Big Sky	Time gauged	0949		
Depth to PSH	____ Feet	Well diameter	4	Inches	
Depth to water	63.84 Feet	Height of fluid column	10.2	Feet	
Total depth	74.06 Feet	Volume in well	6.7	Gallons	

(3 well volumes = 20. gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:51 11/1/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
10:29	10	22.7	5005	7.15	96	3921
10:48	15	21.2	5021	7.40	105	3945
10:58	18	22.7	4977	7.32	105	3902
11:05	20	23.3	4959	7.30	106	3880

Actual purge volume 20 gal. Field measurements stabilized within ± 10%? ____

Time/date sampled 11:07 11/1/11 Purged/sampled by Angel M Rivera

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	933-06	Date gauged	11/2/11		
Site	Big Sky	Time gauged	7:50		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	73.41	Feet	Height of fluid column	11.81	Feet
Total depth	85.22	Feet	Volume in well	7.8	Gallons

(3 well volumes = 23.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:15 11/2/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:22	10	20.6	4020	8.40	112	3089
8:24	15	21.2	4005	7.65	120	3068
8:25	20	21.6	4032	7.46	119	3121
8:27	25	21.6	4027	7.33	116	3095

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

Time/date sampled 9:29 11/2/11 Purged/sampled by Angel N Rivera

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	10/1/11	
Site	Big Sky		Time gauged	8:06	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	59.50	Feet	Height of fluid column	13.98	Feet
Total depth	73.54	Feet	Volume in well	9.2	Gallons

(3 well volumes = 27.7 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:23 10/1/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
9:23	10	22.5	6265	7.34	98	5021
9:30	25	22.0	6260	7.26	78	~~4950~~ 5003
9:36	28	22.4	6185	7.20	72	4950

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

Time/date sampled 9:37 11/1/11 Purged/sampled by Angel A Rivera

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	B33-68	Date gauged	11/1/11		
Site	Big Sky	Time gauged	12:58		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	59.83	Feet	Height of fluid column	14.27	Feet
Total depth	73.90	Feet	Volume in well	9.42	Gallons

(3 well volumes = 28.25 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:58 11/1/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
2:11	20	24.9	5086	7.34	182	3983
2:20	25	23.5	5266	7.40	-6	4032
2:25	30	23.0	5221	7.44	-4	4055
2:31	32	22.9	5288	7.19	-10	4038

Actual purge volume 32 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 2:41 11/1/11 Purged/sampled by Braden Angel N Rivera

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	333-09	Date gauged	11/1/11		
Site	Big Sky	Time gauged	1:15		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	25.25	Feet	Height of fluid column	14.09	Feet
Total depth	39.84	Feet	Volume in well	9.30	Gallons

(3 well volumes = 27.90 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1:15 11/1/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1:45	26	22.2	595	7.92	-6	4096
1:48	27	21.8	5938	7.49	-8	4875
1:55	28	21.6	5933	7.44	-10	4669

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

Time/date sampled 2:01 11/1/11 Purged/sampled by Gabriel Morales

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	833-10	Date gauged	11/1/11		
Site	Big Sky	Time gauged	10:11		
Depth to PSH	____ Feet	Well diameter	4	Inches	
Depth to water	20.51 Feet	Height of fluid column	16.68	Feet	
Total depth	37.17 Feet	Volume in well	10.99	Gallons	

(3 well volumes = 33 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:11 11/1/11 Purge Method Bailer

TDS

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ (mg/L)
10:56	31	18.2	3958	7.22	-0	.3005
10:59	32	18.2	3967	7.30	-0	-3010
11:03	33	18.2	3968	7.24	-0	-3014

Actual purge volume 33 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 11/1/11 Purged/sampled by Gabriel Montes

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	240-01	Date gauged	11/4/11		
Site	Bright Star	Time gauged	11:28		
Depth to PSH	____ Feet	Well diameter	4	Inches	
Depth to water	39.70 Feet	Height of fluid column	6.85	Feet	
Total depth	46.55 Feet	Volume in well	4.5	Gallons	

(3 well volumes = 13.5 gallons)

.27

GROUNDWATER SAMPLING DATA

Time/date purged 11:45 11/4/11 Purge Method ~~Pump~~ Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:55	5	22.2	4801	8.14	88	3712
12:02	10	21.1	4835	7.92	29	3738
12:07	14 ~~15~~	21.0	4817	7.85	15	3724

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

Time/date sampled 12:09 11/4/11 Purged/sampled by [illegible]

Sample method ~~Pump~~ 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: 11/04/11

Site: Bright Star | Time gauged: 12:26

Depth to PSH: _____ Feet | Well diameter: _____ Inches

Depth to water: 51.22 Feet | Height of fluid column: 5.6 Feet

Total depth: 56.82 Feet | Volume in well: 3.7 Gallons

(3 well volumes = 11. gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 12:31 11/4/11 | Purge Method: Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
12:49	3	23.3	4848	8.11	92	3741
13:00	5	22.1	4824	8.07	55	3720
13:13	11	22.3	4778	8.05	50	3682

Actual purge volume: 11 gal. | Field measurements stabilized within ± 10%? _____

Time/date sampled: 13:18 11/4/11 | Purged/sampled by: Angel & Ryan

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	86-340-01	Date gauged	11/7/11		
Site	Bright Star	Time gauged	11:41		
Depth to PSH	____ Feet	Well diameter	4	Inches	
Depth to water	51.54 Feet	Height of fluid column	19.4	Feet	
Total depth	70.94 Feet	Volume in well	12.8	Gallons	

(3 well volumes = 38.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11:55 11/7/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:06	32	20.9	4411	7.85	167	3433
12:08	36	20.5	4398	7.88	168	3437
12:11	38	20.6	4467	7.66	167	3456
12:12	38.5	20.4	4446	7.59	165	3438

Actual purge volume 38.5 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 12:13 11/7/11 Purged/sampled by angel M R Nuno

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	70186-340	Date gauged	11/7/11		
Site	Bright Star	Time gauged	12:36		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	45.51	Feet	Height of fluid column	22.0	Feet
Total depth	67.53	Feet	Volume in well	14.5	Gallons

(3 well volumes = 43.6 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:48 11/7/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L) TDS
12:57	35	21.1	9273	7.64	179	7795
1:00	40	20.9	9263	7.44	174	7749
1:02	44	20.9	9238	7.32	170	7729

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

Time/date sampled 13:04 11/7/11 Purged/sampled by angel n Rivera

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	74-01	Date gauged	11/3/11		
Site	Buena Vista II	Time gauged	09:10		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	34.54	Feet	Height of fluid column	10.7	Feet
Total depth	45.24	Feet	Volume in well	7.06	Gallons

(3 well volumes = 21.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:25 11/3/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
10:36	10	21.1	5879	7.94	13	4634
10:41	20	20.8	5396	7.76	1	4222
10:47	22	21.4	5173	7.66	4	4035

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

Time/date sampled 10:44 11/3/11 Purged/sampled by angel n Rivera

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	74-02	Date gauged	11/3/11		
Site	Buena Vista II	Time gauged	9:43		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	15.67	Feet	Height of fluid column	4.62	Feet
Total depth	20.29	Feet	Volume in well	3.04	Gallons

(3 well volumes = 9.1 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:41 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~
10:52	3	20.3	3767	7.61	128	2904
10:57	6	19.1	3785	7.63	130	2959
10:58	9.5	20.5	3789	7.60	125	2587

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

Time/date sampled 10:59 11/3/11 Purged/sampled by Gabriel Morales

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	74-03		Date gauged	11/3/11	
Site	Buena Vista II		Time gauged	10:38	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	13.87	Feet	Height of fluid column	6.42	Feet
Total depth	20.29	Feet	Volume in well	4.23	Gallons

(3 well volumes = 12.7 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11:09 11/3/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:13	5	21.4	7167	7.42	129	5813
11:14	10	23.9	7255	7.31	126	5877
11:18	13	22.4	7234	7.40	125	5872

Actual purge volume 13 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 11:19 11/3/11 Purged/sampled by Angel N Rivera

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	74-04	Date gauged	11/3/12		
Site	Buena Vista II	Time gauged	8:50		
Depth to PSH	____ Feet	Well diameter	4	Inches	
Depth to water	46.53 Feet	Height of fluid column	11.82	Feet	
Total depth	58.35 Feet	Volume in well	7.80	Gallons	

(3 well volumes = 23.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:12 11/3/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:15	15	18.8	2960	7.69		2178
9:18	20	20.1	2940	7.68		2157
9:19	25	20.9	2969	7.39		2210

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

Time/date sampled 9:24 11/3/11 Purged/sampled by Angel A Rivera

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	74-05	Date gauged	11/3/11		
Site	Buena Vista II	Time gauged	9:04		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	39.87	Feet	Height of fluid column	17.68	Feet
Total depth	57.55	Feet	Volume in well	11.67	Gallons

(3 well volumes = 35 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:44 11/3/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:57	25	19.3	3065	7.65	22	2275
9:59	30	19.9	3060	7.63	16	2265
10:01	35	20.0	3053	7.22		2261

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

Time/date sampled 10:02 11/3/11 Purged/sampled by Paul LRivera

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	DAD 01	Date gauged	10/27/11		
Site	Dona Ana Dairies	Time gauged	11:36		
Depth to PSH	____ Feet	Well diameter	2	Inches	
Depth to water	67.85 Feet	Height of fluid column	8.72	Feet	
Total depth	76.57 Feet	Volume in well	1.48	Gallons	

(3 well volumes = 4.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11:40 10/27/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:46	2	23.1	2483	7.45	105	1801
11:48	3	23.8	2604	7.35	81	1889
11:51	4	24.1	2654	7.24	92	1941
11:52	4.5	24.0	2661	7.24	85	1961

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

Time/date sampled 11:55 10/27/11 Purged/sampled by Thorsten Kniep

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	DTD 02	Date gauged	10/27/11		
Site	Dona Ana Dairies	Time gauged	8:52		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	63.03	Feet	Height of fluid column	4.83	Feet
Total depth	67.86	Feet	Volume in well	0.8	Gallons

(3 well volumes = 2.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:54 10/27/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
0857	1	21.8	2697	7.83	76	1991
09:00	2	22.8	2820	7.61	85	2074
09:02	2.5	22.3	2659	7.48	90	1938
09:04	2.8	22.5	2600	7.44	82	1880

Actual purge volume 3.0 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 09:06 10/27/11 Purged/sampled by Thorst

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 03	Date gauged	10/26/11		
Site		Time gauged	14:16		
Depth to PSH	Feet	Well diameter	2	Inches	
Depth to water	10.50 Feet	Height of fluid column	1.32	Feet	
Total depth	11.82 Feet	Volume in well	.22	Gallons	

(3 well volumes = .66 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 14:18 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS ~~DO (mg/L)~~
14:19		24.5	8243	7.30	-166	6679
		23.8	8132	7.20	-199	6619
14:23	1	23.6	8147	7.12	-210	6619

Actual purge volume 1 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 14:25 10/26/11 Purged/sampled by Thorsten Heines

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	DMD 04	Date gauged	10/26/11		
Site	Dona Ana Dairies	Time gauged	13:52		
Depth to PSH	____ Feet	Well diameter	2	Inches	
Depth to water	14.89 Feet	Height of fluid column	3.31	Feet	
Total depth	18.20 Feet	Volume in well	0.6	Gallons	

(3 well volumes = 2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 13:55 10/26/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
13:57	.5	23.3	4098	7.66	34	3119
13:59	1	21.9	4128	7.71	31	3143
14:00	2	21.5	4113	7.70	27	3138
14:02	2.5	21.4	4108	7.68	18	3130

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

Time/date sampled 14:05 10/26/11 Purged/sampled by T. Mejias

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

2341

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	DAD 05	Date gauged	10-26-11		
Site	Dona Ana Dairies	Time gauged	13:14		
Depth to PSH	____ Feet	Well diameter	2	Inches	
Depth to water	14.09 Feet	Height of fluid column	9.59	Feet	
Total depth	23.68 Feet	Volume in well	1.63	Gallons	

(3 well volumes = 4.9 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
1:28 P.M.	2	23.4	4081	7.28	60	3075
13:32	3	22.3	4080	7.26	38	3090
13:34	4	21.9	4042	7.25	42	3060
13:35	5	22.0	4008	7.24	42	3032

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

Time/date sampled 13:37 10/26/11 Purged/sampled by T. Reines

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 06	Date gauged	10/26/11		
Site	Bear An	Time gauged	14:44		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	91.77	Feet	Height of fluid column	2.04	Feet
Total depth	93.81	Feet	Volume in well	.34	Gallons

(3 well volumes = 1.04 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 14:45 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:48	0.5	24.5	1900	7.97	11	1332
14:50	1.0	23.9	1819	7.45	22	1270
14:53	1.5	23.6	1835	7.93	27	1283
14:54	1.8	23.4	1864	7.86	39	1302

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

Time/date sampled 1445 10/27/11 Purged/sampled by Thorsten Reimus

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: 10-26-11

Site: Doña Ana Pavines — Time gauged: 10:54

Depth to PSH: _____ Feet — Well diameter: 2 Inches

Depth to water: 89.49 Feet — Height of fluid column: 11.39 Feet

Total depth: 100.88 Feet — Volume in well: 1.94 Gallons

(3 well volumes = 5.8 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 11:30 10/26/11 — Purge Method: Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:31	1	26.4	3311	7.34	68	2455
11:35	1	25.2	3297	7.19	73	2457
11:39	1	24.8	3285	7.17	72	2450
11:43	1	24.5	3283	7.15	68	2452
11:46	1	24.5	3291	7.14	71	2458
11:49	1	24.1	3303	7.11	73	2460

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

Time/date sampled: 11:52 10/26/11 — Purged/sampled by: Jesus Garza

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

5426

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: DRO 08 — Date gauged: 10-26-11

Site: Dona Ana Dairies — Time gauged: 11:10

Depth to PSH: _____ Feet — Well diameter: 2" Inches

Depth to water: 50.67 Feet — Height of fluid column: 3.86 Feet

Total depth: 54.53 Feet — Volume in well: 0.65 Gallons

(3 well volumes = 2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 11:55/10-26-11 — Purge Method: Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
12:00	0.5	23.0	5458	7.15	66	4260
12:04	1.5	22.5	5439	7.11	71	4247
12:07	2	22.4	5448	7.09	69	4256

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

Time/date sampled: 12:10 10-26-11 — Purged/sampled by: Reinus

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-09	Date gauged	10/26/11	
Site		Time gauged	10:10	
Depth to PSH	Feet	Well diameter	2	Inches
Depth to water	52.41 Feet	Height of fluid column	10.64	Feet
Total depth	63.05 Feet	Volume in well	1.80	Gallons

(3 well volumes = 5.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:15 10/26/11 Purge Method Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
10:20	1	24.3	2470	6.93	71	1776
10:25	1	23.5	3906	6.94	72	2939
10:30	1	23.2	4044	6.89	73	3052
10:35	1	23.1	3486	6.93	81	2602
10:40	1	20.9	3250	7.00	78	2436

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

Time/date sampled 10:43 10/26/11 Purged/sampled by Jamy Lamar

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-10		Date gauged	10/26/11	
Site	DELORO		Time gauged	9:00	
Depth to PSH	~~8~~	Feet	Well diameter	2	Inches
Depth to water	80.49	Feet	Height of fluid column	14.33	Feet
Total depth	94.82	Feet	Volume in well	2.43	Gallons

(3 well volumes = 7.30 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:08 10/26/11 Purge Method Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
9:08	1	21.7	2572	6.92	42	1852
9:15	2	21.5	2553	6.85	50	1853
9:27	2	21.2	2338	6.93	33	1682
9:36	1	21.2	2302	7.03	30	1652
9:43	1	21.1	2309	7.01	32	1653

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

Time/date sampled 9:45 10/26/11 Purged/sampled by [signature]

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 H	Date gauged	10/27/11		
Site	Nova Sun Dairies	Time gauged	10:15 10/27/11		
Depth to PSH	____ Feet	Well diameter	4	Inches	
Depth to water	18.46 Feet	Height of fluid column	29.04	Feet	
Total depth	47.50 Feet	Volume in well	19.16	Gallons	

(3 well volumes = 57.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:20 10/27/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
10:36	30	26.4	2633	7.34	70	1705
10:39	38	27.2	2606	7.23	83	1677
10:44	50	27.1	2625	7.24	97	1895
10:47	55	26.7	2592	7.19	96	1875
10:49	57	27.8	2592	7.14	103	1859

Actual purge volume 58 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 10:50 10/27/11 Purged/sampled by Thorsten Meiners

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 13	Date gauged	10/27/11		
Site	Dona Ana Dairies	Time gauged	11:07		
Depth to PSH	____ Feet	Well diameter	2	Inches	
Depth to water	93.14 Feet	Height of fluid column	9.0	Feet	
Total depth	92.14 Feet	Volume in well	1.53	Gallons	

(3 well volumes = 4.6 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11:12 10/27/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:19	2	24.0	3210	7.28	102	2377
11:21	3	23.7	3202	7.30	109	2374
11:23	4	23.8	3187	7.28	108	2359

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

Time/date sampled 11:26 10/27/11 Purged/sampled by Thorat Nimmi

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	DAO 14	Date gauged	10/27/11		
Site	Dona Ana Dairies	Time gauged	09:20		
Depth to PSH	____ Feet	Well diameter	2	Inches	
Depth to water	26.32 Feet	Height of fluid column	16.32	Feet	
Total depth	42.64 Feet	Volume in well	2.9	Gallons	

(3 well volumes = 8.3 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 09:23 10/27/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
09:36	5	17.5	4594	7.7	69	3461
09:40	6	18.8	4753	7.66	59	3691
09:42	7	19.3	4752	7.60	61	3675
09:44	8	19.2	4745	7.57	64	3664

Actual purge volume 8.5 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 0945 10/27/11 Purged/sampled by Natasha Reinos

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	OMW 16	Date gauged	10/27/11		
Site	Dona Ana Dairies	Time gauged	08:12		
Depth to PSH	_____ Feet	Well diameter	2	Inches	
Depth to water	16.83 Feet	Height of fluid column	16.04	Feet	
Total depth	32.87 Feet	Volume in well	2.73	Gallons	

(3 well volumes = 8.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:20 10/27/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:24	4	18.6	3030	7.97	37	2245
8:27	6	18.7	3025	7.66	32	2238
8:29	7	19.0	3048	7.62	32	2259
8:32	8	19.0	3045	7.60	32	2260

Actual purge volume 8.5 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 8:34 10/27/11 Purged/sampled by Mines

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	DHD17	Date gauged	10-26-11		
Site	Dove Hog Dairy	Time gauged	12:33		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	18.72	Feet	Height of fluid column	20.03	Feet
Total depth	38.75	Feet	Volume in well	3.4	Gallons

(3 well volumes = 10.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
12:47	5	24.3	2349	7.40	96	1740
12:51	8	23.3	1592	7.43	113	1049
12:55	9	22.9	1433	7.36	116	985.7
12:58	10	22.9	1387	7.34	117	955.8

Actual purge volume 10.5 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 13:00 10/26/11 Purged/sampled by T. Mathus

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 22 | Date gauged: 10-26-11

Site: Dona Ana Dairies | Time gauged: 10:20

Depth to PSH: _____ Feet | Well diameter: 2" Inches

Depth to water: 43.17 Feet | Height of fluid column: 7.1 Feet

Total depth: 50.27 Feet | Volume in well: 1.20 Gallons

(3 well volumes = 3.6 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 10:48 10/26/11 | Purge Method: Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:50	1	23.7	4303	7.33	50	3269
10:54	1	23.3	4297	7.41	41	3270
10:58	1	23.5	4429	7.44	40	3374
11:03	1	23.5	4430	7.48	37	3384

Actual purge volume: 4.0 gal. | Field measurements stabilized within ± 10%? _____

Time/date sampled: 15:15 10/26/11 | Purged/sampled by: Jerry Lewis Joel Garza

Sample method: Bail/BP

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	11-07-11	
Site	Daybreak		Time gauged	07:51	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	31.00	Feet	Height of fluid column	7.14	Feet
Total depth	38.14	Feet	Volume in well	4.7	Gallons

(3 well volumes = 14.13 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:14 11/7/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ (mg/L) TDS
8:18	13	20.6	3849	7.40	88	2968
8:20	14	21.7	3975	7.27	92	3040
8.22	15	21.2	3909	7.23	94	3010

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

Time/date sampled 8:23 11/7/11 Purged/sampled by Thorsh Means

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: 126-5 | Date gauged: 11/4/11

Site: Daybreak | Time gauged: 1:51

Depth to PSH: _____ Feet | Well diameter: 2 Inches

Depth to water: 23.51 Feet | Height of fluid column: 7.38 Feet

Total depth: ~~30.89~~ 30.89 Feet | Volume in well: 1.25 Gallons

(3 well volumes = 3.8 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 1:55 11/4/11 | Purge Method: bailer TDS

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~
~~1:50~~ 1:55	2	22.8	4303	7.60	139	3320
~~2:00~~ 2:01	3	21.9	4365	7.47	131	3365
2:04	4	22.3	4346	7.51	125	3391

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

Time/date sampled: 2:14 11/4/11 | Purged/sampled by: angel n Rivera

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	126-7	Date gauged	11/4/11		
Site	Daybreak Dairy	Time gauged	2:00		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	31.28	Feet	Height of fluid column	7.06	Feet
Total depth	38.34	Feet	Volume in well	1.2	Gallons

(3 well volumes = 3.6 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 14:02 11/4/11 Purge Method bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
14:00	2	22.4	4188	7.73	78	3181
14:13	3	21.3	4170	7.44	67	3165
14:17	~~3.6~~ 3.6	21.1	4158	7.37	71	3161

Actual purge volume 3.6 gal. Field measurements stabilized within ± 10%?

Time/date sampled 14:18 11/4/11 Purged/sampled by Daniel a Rivera

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	126-09	Date gauged	11/7/11		
Site	Daybreak	Time gauged	9:43		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	73.77	Feet	Height of fluid column	7.76	Feet
Total depth	81.53	Feet	Volume in well	1.3	Gallons

(3 well volumes = ~~3.9~~ 4 gallons) Not

GROUNDWATER SAMPLING DATA

Time/date purged 10:01 11/7/11 Purge Method bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
10:07	2	23.9	5074	7.49	116	3972
10:09	3	23.1	5100	7.37	122	4000
	4					

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

Time/date sampled 10:15 11/7/11 Purged/sampled by angel N Rivera

Sample method bailer

Requested analyses _____

Comments/observations not enough water to complete gallons.

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	11/4/11		
Site	Pt Navie	Time gauged	12:05		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	19.26	Feet	Height of fluid column	10.69	Feet
Total depth	29.95	Feet	Volume in well	7.05	Gallons

(3 well volumes = 21.17 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:11 11/4/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:44	20	20.7	3580	7.86	117	2810
12:48	21	20.5	3659	7.32	114	2793
12:52	22	20.7	3660	7.31	110	2901

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

Time/date sampled 12:55 11/4/11 Purged/sampled by Thos L Means

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	126-13	Date gauged	11/7/11		
Site	Daybreak	Time gauged	08:00		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	38.09	Feet	Height of fluid column	22.03	Feet
Total depth	60.12	Feet	Volume in well	3.74	Gallons

(3 well volumes = 11.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:40 11/7/11 Purge Method bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:00	9	20.6	4431	7.45	97	3451
9:04	10	19.3	4447	7.36	96	3464
9:08	11	20.6	4438	7.26	97	3463
9:10	11.5	20.7	4438	7.26	97	3456

Actual purge volume 11.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 9:12 11/7/11 Purged/sampled by Angel A Rivera

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: 692-01 | Date gauged: 11-8-11

Site: DeLoro | Time gauged: 12:43

Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	57.89	Feet	Height of fluid column	(9.61)	Feet
~~Total~~ depth To pump	67.50	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 12:58 11-8-11 | Purge Method: Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
13:00	5	21.3	6264	6.90	127	4970
13:04	15	21.7	6449	6.83	121	5099
13:07	20	21.7	6617	6.91	117	5287
13:09	25	21.8	6451	6.82	117	5130
13:12	30	21.8	6456	6.80	114	5081

Actual purge volume: 30 gal. | Field measurements stabilized within ± 10%?: _____

Time/date sampled: 13:15 11-8-11 | Purged/sampled by: Thorsten Meiners

Sample method: Well pump

Requested analyses: _____

Comments/observations: 6.3 gal of water to pump

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	10/31/11		
Site	Dr Oro	Time gauged	10:13		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	54.61	Feet	Height of fluid column	11.98	Feet
Total depth	66.59	Feet	Volume in well	7.9	Gallons

(3 well volumes = 23.7 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:30 10/31/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:00	18	21.6	2738	6.66	-119	2000
11:06	19	21.9	2829	6.89	-79	2081
11:09	20	22.3	2824	6.92	-59	2072
11:14	24	22.0	2809	7.01	-46	2065

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

Time/date sampled 11:15 10/31/11 Purged/sampled by Angel N. Rivera

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	69204	Date gauged	10/31/11		
Site	Del Oro	Time gauged	10:00		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	56.46	Feet	Height of fluid column	4.95	Feet
Total depth	61.41	Feet	Volume in well	3.26T	Gallons

(3 well volumes = 10 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:00 10/31/11 Purge Method Bailer TDS

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~
10:30	6	19.8	3092	7.49	108	2328
10:38	8	20.3	3073	7.22	96	2311
10:45	10	20.2	3082	7.20	84	2320

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

Time/date sampled _____ Purged/sampled by Bible/Mendes

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: 692-05 | Date gauged: 11/8/11

Site: Del Oro | Time gauged: 9:35

Depth to PSH: _____ Feet | Well diameter: 4 Inches

Depth to water: 77.86 Feet | Height of fluid column: _____ Feet

To Pump Total depth: 94.49 Feet | Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 9:45 11/8/11 | Purge Method: Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
9:52	5	19.8	2323	7.68	66	1659
10:03	7	21.6	2493	7.61	133	1797
10:09	8.5	22.0	2496	7.32	165	1802
10:14	9	22.1	2429	7.27	171	1741
10:26	10	22.2	2391	7.2	173	1712

Actual purge volume: 11 gal. | Field measurements stabilized within ± 10%? ✓

Time/date sampled: 10:30 11/8/11 | Purged/sampled by: Thomas Meiners

Sample method: Well Pump

Requested analyses: _____

Comments/observations: 4.3 gal to pump

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: 11/8/4

Site: DL Dio — Time gauged: 10:22

Depth to PSH: _____ Feet — Well diameter: 4 Inches

Depth to water: 80.03 Feet — Height of fluid column: ~ Feet

~~Total~~ depth: 85.37 Feet — Volume in well: _____ Gallons

To pump

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 10:39 11/8/4 — Purge Method: Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
10:40	3.5	20.5	2445	7.28	174	1770
10:50	5.5	21.0	2418	7.20	154	1749
10:58	8.5	21.0	2425	7.31	152	1748
11:03	10	21.3	2400	7.29	152	1723

Actual purge volume: 11 gal. — Field measurements stabilized within ± 10%? ~

Time/date sampled: 11:05 11/8/4 — Purged/sampled by: Thomas Reinus

Sample method: Well Pump

Requested analyses: _____

Comments/observations: 3.4 gal water to pump

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	692-07	Date gauged	11-8-11
Site	Del Oro	Time gauged	11:23
Depth to PSH	____ Feet	Well diameter	4 Inches
Depth to water	71.49 Feet	Height of fluid column	____ Feet
Total depth	77.02 Feet	Volume in well	____ Gallons

(3 well volumes = ____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11:30 11/8/11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:31	3.5	21.8	2795	7.35	150	2044
11:36	4.5	21.8	2790	7.25	155	2039
11:42	5.0	21.9	2791	7.25	154	2045

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

Time/date sampled 11:55 11-8-11 Purged/sampled by Thomas Hains

Sample method Well Pump

Requested analyses ____

Comments/observations 3.6 gal Water Top up

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	Date gauged	11-8-11		
Site	Del Oro	Time gauged	12:05		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	65.42	Feet	Height of fluid column	(11.55)	Feet
Total depth	76.97	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:13 11/8/11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
12:14	5	22.0	2230	7.43	112	1595
12:16	7.5	22.0	2234	7.32	114	1599
12:21	9	22.3	2229	7.19	113	1591
12:26	11	22.2	2230	7.15	110	1593

Actual purge volume 11.5 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 11-8-11 Purged/sampled by Travis Mimms

Sample method Well Pump

Requested analyses _____

Comments/observations 7.6 gal of water to pump

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	11/8/11	
Site	Del Oro	Time gauged	9:00	
Depth to PSH	____ Feet	Well diameter	4	Inches
Depth to water	81.44 Feet	Height of fluid column	____	Feet
Total depth	____ Feet	Volume in well	____	Gallons

(3 well volumes = ____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:10 11/8/11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
9:14	11	22.7	2310	7.79	8	1662
9:15	15	23.0	2395	7.44	28	1722
9:16	20	23.2	2411	7.34	37	1740
9:18	25	23.1	2428	7.31	40	1754

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

Time/date sampled 9:20 11-8-11 Purged/sampled by Nicole Heinz

Sample method Well 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	42-02		Date gauged	11-9-11	
Site	Dominguez 2		Time gauged	12:39	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	24.84	Feet	Height of fluid column		Feet
Total depth	59.44	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:45 11-9-11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L) TDS
12:48	5	19.5	3505	7.47	55	2629
12:50	10	19.8	3499	7.37	59	2627
12:52	15	19.9	3501	7.31	60	2626
12:53	20	20.00	3497	7.27	60	2624

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

Time/date sampled 12:55 11-9-11 Purged/sampled by Thorsten Meiners

Sample method Well 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	11-9-11	
Site	Dominguez 2		Time gauged	11:32	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	81.29	Feet	Height of fluid column		Feet
~~Total~~ depth	93.39	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

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

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:43	10	24.8	5622	7.24	70	4362
11:45	15	25.5	5571	7.07	71	4340
11:47	20	25.7	5588	7.01	69	4348

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

Time/date sampled 11:50 11/9/11 Purged/sampled by Ronald Hinojos

Sample method Well Pump

Requested analyses

Comments/observations 8 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

ATTACHMENT E

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	42-06		Date gauged	11-9-11	
Site	Dominguez 2		Time gauged	12:09	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	30.81	Feet	Height of fluid column	-	Feet
Total depth	37.99	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO ~~(mg/L)~~
12:15	5	20.9	5001	7.47	57	3985
12:17	10	21.2	4966	7.38	54	3865
12:19	15	21.7	5011	7.37	53	3892
12:21	20	21.6	5049	7.37	50	3916

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

Time/date sampled 12:24 11-9-11 Purged/sampled by Thorsten Heinz

Sample method Well Pump

Requested analyses _____

Comments/observations 4.7 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

ATTACHMENT E

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	42-07	Date gauged	11/9/11		
Site	Dominguez 2	Time gauged	9:06		
Depth to PSH	_____ Feet	Well diameter	4	Inches	
Depth to water	_____ Feet	Height of fluid column	~	Feet	
Total depth	~~79~~ 72.68 Feet	Volume in well	_____	Gallons	

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:28 11/9/11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
9:25	3	21.4	6218	7.46	108	4859
9:28	5	22.4	5960	7.16	77	4745
9:30	6	23.5	5791	7.08	53	4530
9:34	7.5	24.7	5765	7.05	55	4503
9:36	9	25.1	5787	7.03	52	4523
9:	10	25.4	5767	7.00	49	4516

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

Time/date sampled 9:38 11/9/11 Purged/sampled by Marsha Burns

Sample method Well pump

Requested analyses _____

Comments/observations Gauged with 2 different Water Meters no water detected Water level must be at pump

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	11/9/11	
Site	Dominguez		Time gauged	13:02	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	26.90	Feet	Height of fluid column		Feet
Total depth	31.33	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 13:07 11/9/11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ (mg/L)
13:10	5	20.7	2690	7.79	35	2150
13:15	10	21.7	2824	7.80	38	2068
13:17	13	22.1	2917	7.73	24	2131
13:19	15	22.1	2917	7.69	12	2142
13:20	16.5	22.3	2927	7.66	10	2149

Actual purge volume 17 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 13:23 11-9-11 Purged/sampled by Florsha Reyes

Sample method Well Pump

Requested analyses _____

Comments/observations 3 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

ATTACHMENT E

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: 42-04 | Date gauged: 11-9-4

Site: Dominguez 2 | Time gauged: 11:03

Depth to PSH: _____ Feet | Well diameter: 4 Inches

Depth to water: 46.78 Feet | Height of fluid column: _____ Feet

Total depth: 54.05 Feet | Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 11:06 11-9-4 | Purge Method: Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:10	5	22.1	4373	7.41	41	3344
11:12	10	22.4	4412	7.33	42	3380
11:14	15	22.2	4447	7.32	42	3387

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

Time/date sampled: 11:16 11-9-4 | Purged/sampled by: Thanh Nguyen

Sample method: Well Pump

Requested analyses: _____

Comments/observations: 4.8 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

ATTACHMENT E

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	42-10		Date gauged	11-8-11	
Site	Dominguez II		Time gauged	15:01	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	111.63	Feet	Height of fluid column		Feet
Total depth	117.46	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 15:05 11-8-11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
15:10	5	27.8	2233	7.49	32	1601
15:12	12	26.8	2446	7.32	34	1754
15:14	16	27.1	2417	7.27	36	1726
15:16	20	27.1	2423	7.21	38	1733

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

Time/date sampled 15:20 11-8-11 Purged/sampled by Thomas Murray

Sample method _____

Requested analyses _____

Comments/observations 3.8 gal of water

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: 11/8/11

Site: Dominguez | Time gauged: 13:50

Depth to PSH: _____ Feet | Well diameter: 4 Inches

Depth to water: 122.18 Feet | Height of fluid column: _____ Feet

~~Total~~ depth to Pump: 128.40 Feet | Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: ~~11/8~~ 13:55 | Purge Method: Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:01	7	26.7	1882	7.27	54	1305
14:03	12	28.1	1882	7.60	56	1307
14:06	17	28.8	2067	7.33	36	1441
14:09	20	28.8	2053	7.22	46	1445
14:11	23	29.1	2042	7.22	49	1432

Actual purge volume: 24 gal. | Field measurements stabilized within ± 10%? ✓

Time/date sampled: 14:15 11-9-11 | Purged/sampled by: Mariano

Sample method: Well Pump

Requested analyses: _____

Comments/observations: 4 gal of water to pump

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	11-8-11		
Site	Domingues 2	Time gauged	14:33		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	128.51	Feet	Height of fluid column		Feet
~~Total~~ depth To Pump	134.84	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1440 11/8/11 Purge Method Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:42	5	27.6	2166	7.29	-22	1531
14:43	10	28.2	2104	7.23	534	1477
14:44	15	28.4	2134	7.21	10	1502
14:46	20	28.5	2068	7.24	18	1445

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

Time/date sampled 14:49 11/8-11 Purged/sampled by T. Hovius

Sample method Well Pump

Requested analyses

Comments/observations 24 gal water to pump

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: 11/9/14

Site: Dominguez 2 | Time gauged: 10:22

Depth to PSH: _____ Feet | Well diameter: 4 Inches

Depth to water: 54.57 Feet | Height of fluid column: _____ Feet

~~Total~~ depth: 59.68 Feet | Volume in well: _____ Gallons

Top of pump

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 10:25 11/9/14 | Purge Method: Well Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
10:29	3	20.9	5886	7.59	44	4602
10:31	3.5	22.3	5833	7.30	55	4566
10:40	6	22.9	5634	7.90	55	4457
10:45	9	23.5	5558	7.30	47	4314
10:48	11	23.6	5558	7.22	44	4340

Actual purge volume: 12 gal. | Field measurements stabilized within ± 10%? ~

Time/date sampled: 10:50 11/9/14 | Purged/sampled by: Thomas Nevins

Sample method: Well Pump

Requested analyses: _____

Comments/observations: 3.3 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

ATTACHMENT E

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	624-01	Date gauged	11/4/11		
Site	Dominguez I	Time gauged	8:55		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	24.77	Feet	Height of fluid column	22.02	Feet
Total depth	46.79	Feet	Volume in well	14.5	Gallons

(3 well volumes = 43.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11/4/11 9:03 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:56	14.5	18.5	6567	7.51	181	#6.36
9:59	29	18.4	6515	7.30	178	5.29
10:03	43.5	18.4	6507	7.29	173	3.25

Actual purge volume 43.5 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 10:05 11/4/11 Purged/sampled by Gabriel Morales

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	11/4/11		
Site	Dominguez	Time gauged	8:25		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	16.81	Feet	Height of fluid column	20.63	Feet
Total depth	37.44	Feet	Volume in well	13.62	Gallons

(3 well volumes = ~~41.16~~ 40.86 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:32 11/4/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
9:37	20	19.5	6113	7.40	45	4831
9:39	30	20.1	6078	7.21	41	4860
9:42	45	20.4	6079	6.98	29	4823

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

Time/date sampled 9:43 11/4/11 Purged/sampled by Angel A Rivera

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: 021 MW-01

Site: Dominguez

Date gauged: 11/4/11

Time gauged: 10:30

Depth to PSH: _____ Feet

Depth to water: dry Feet

Total depth: 16.52 Feet

Well diameter: _____ Inches

Height of fluid column: _____ Feet

Volume in well: _____ Gallons

(3 well volumes = _____ 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 _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations Well is dry

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	G24-05	Date gauged	11/4/11		
Site	Deppinger I	Time gauged	10:41		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	15.24	Feet	Height of fluid column	1.98	Feet
Total depth	17.22	Feet	Volume in well	1.30	Gallons

(3 well volumes = 3.92 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11:01 11/4/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:05	1.25	21.5	3121	7.90	168	3180
11:11	1.5	20.7	3116	7.79	163	3161
11:15	1.75	21.3	3165	7.85	175	3130

Actual purge volume 1.75 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 11:17 11/4/11 Purged/sampled by Gabriel Morales

Sample method Bailer

Requested analyses

Comments/observations Couldnt purge right amount not enough water

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	624-06	Date gauged	11/4/11		
Site	Dominguez I	Time gauged	10:00		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	50.91	Feet	Height of fluid column	1.44	Feet
Total depth	52.35	Feet	Volume in well	0.95	Gallons

(3 well volumes = 3 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11/4/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
10:07	.5	19.4	5562	7.91	27	4368
10:09	1.5	20.6	5360	7.79	32	4220
10:11	2.5	19.7	5351	7.83	37	4203
10:13	3	20.3	5313	7.79	40	4192

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

Time/date sampled 10:23 11/4/11 Purged/sampled by Mi

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	624-07	Date gauged	11/4/11		
Site		Time gauged	10:35		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	55.11	Feet	Height of fluid column	.54	Feet
Total depth	55.65	Feet	Volume in well	0.35	Gallons

(3 well volumes = 1.1 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:47 11/4/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
	0					

Actual purge volume 0 gal. Field measurements stabilized within ± 10%?

Time/date sampled 11/4/11 Purged/~~sampled~~ by Angel N Rivera

Sample method

Requested analyses

Comments/observations not enough water to purge or 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: 624-08 | Date gauged: 11/4/11

Site: Dominguez I | Time gauged: 10:55

Depth to PSH	_____	Feet	Well diameter	4	Inches
Depth to water	0	Feet	Height of fluid column	0	Feet
Total depth	19.33	Feet	Volume in well	0	Gallons

(3 well volumes = _____ 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 _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ ~~Purged/sampled~~ by Thorsten Heimes

Sample method _____

Requested analyses _____

Comments/observations Well dry

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	77-01	Date gauged	11/3/11		
Site	Gonzalez Dairy	Time gauged	12:36		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	15.98	Feet	Height of fluid column	9.84	Feet
Total depth	25.82	Feet	Volume in well	6.49	Gallons

(3 well volumes = 19.48 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:39 11/3/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1:05	17	~~0.22~~	5832	7.71	121	~~1.46~~
1:11	18	21.2	5849	7.61	89	~~1.05~~
1:16	19.5	20.3	5895	7.89	123	1.41

Actual purge volume 20 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 13:18 11/3/11 Purged/sampled by Gabriel Morales

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	177-2	Date gauged	11/3/11		
Site	Gonzalez Dairy	Time gauged	1:36		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	16.59	Feet	Height of fluid column	10.12	Feet
Total depth	26.71	Feet	Volume in well	6.68	Gallons

(3 well volumes = 20.04 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1:41 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
2:12	10	19.7	5596	7.14	103	4.69
2:17	14	19.6	5635	7.93	107	4.07
2:19	20.5	19.7	5624	7.31	109	4.95

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

Time/date sampled 14:20 11/3/11 Purged/sampled by Gabriel Morales

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	177-03	Date gauged	11/4/11		
Site	Gonzalez Dairy	Time gauged	7:21		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	18.23	Feet	Height of fluid column	17.26	Feet
Total depth	35.49	Feet	Volume in well	2.93	Gallons

(3 well volumes = 8.8 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 7:20 11/4/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
7:35	4.7	24.9	2730	7.70	-17	1973
7:37	8.-	26.3	2635	7.45	3	1898
7:38	8.5	27.1	2623	7.36	6	1896
7:40	9	27.0	2633	7.33	7	1901

Actual purge volume 9 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 7:42 11/4/11 Purged/sampled by Gabriel Morales

Sample method bailer

Requested analyses

Comments/observations

3/5

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	11/3/11	
Site	Gonzalez		Time gauged	13:40	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	22.74	Feet	Height of fluid column	23.83	Feet
Total depth	46.57	Feet	Volume in well	15.72	Gallons

(3 well volumes = 47.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 13:48 11/3/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
1:55	~~30~~ 35	21.9	6056	7.69	29	4766
1:59	45	20.9	6082	7.77	25	4794
2:01	50	21.2	6037	7.39	22	4789

Actual purge volume 50 gal. Field measurements stabilized within ± 10%? _____

Time/date sampled 14:02 11/3/11 Purged/sampled by Angel M. Rivera

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	177-05	Date gauged	11/3/11	
Site	Gonzalez	Time gauged	12:59	
Depth to PSH	____ Feet	Well diameter	____	Inches
Depth to water	34.87 Feet	Height of fluid column	14.43	Feet
Total depth	49.30 Feet	Volume in well	9.5	Gallons

(3 well volumes = 28.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1:04 11/3/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
1:12	20	21.2	5800	7.37	17	4547
1:16	25	20.8	5559	7.33	26	4375
1:18	30	20.6	5684	7.33	29	4481

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

Time/date sampled 13:19 11/3/11 Purged/sampled by Angel N. Rivera

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	177-06		Date gauged	11/3/11	
Site	Gonzalez Dairy		Time gauged	12:38	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	49.59	Feet	Height of fluid column	2.1	Feet
Total depth	51.69	Feet	Volume in well	1.38	Gallons

(3 well volumes = 5.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:46 11/3/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:50	0.25					

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

Time/date sampled 11/3/11 Purged/sampled by angel A Rivera

Sample method Bailer

~~Requested analyses~~ purged 0.25 gal of water well stayed dry not enough to sample

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	177-07		Date gauged	11/4/11	
Site	Gonzalez		Time gauged	7:56	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	43.54	Feet	Height of fluid column	10.9	Feet
Total depth	54.32	Feet	Volume in well	7.1	Gallons

(3 well volumes = 21.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:15 11/4/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
8:17	10	19.1	5554	7.35	44	4365
8:21	20	19.4	5516	7.42	39	4362
8:24	~~25~~	19.4	5524	7.32	46	4353

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

Time/date sampled 8:25 11/4/11 Purged/sampled by Angel M Rivera

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- 01	Date gauged	11/7/11		
Site	Mountain view	Time gauged	7:32		
Depth to PSH	____ Feet	Well diameter	4	Inches	
Depth to water	32.57 Feet	Height of fluid column	12.97	Feet	
Total depth	45.54 Feet	Volume in well	8.6	Gallons	

(3 well volumes = 25.7 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 7:46 11/7/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
7:51	20	20.4	4213	7.48	148	3264
7:53	25	21.5	42924	7.31	126	3254
7:55	30	21.1	4193	7.24	113	3240

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

Time/date sampled 7:57 11/7/11 Purged/sampled by Angel n Rivera

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	MW-02	Date gauged	11/7/11		
Site	Mountain View	Time gauged	08:54		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	42.18	Feet	Height of fluid column	7.54	Feet
Total depth	49.72	Feet	Volume in well	4.97	Gallons

(3 well volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11/7/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
9:24	5	22.6	5078	7.30	108	4005
9:25	10	23.3	5179	7.56	101	4079
9:27	15	23.3	5184	7.55	98	4081

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

Time/date sampled 9:28 11/7/11 Purged/sampled by Angel N Rivera

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	MW-03	Date gauged	11/7/11		
Site	Mountain View	Time gauged	10:37		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	51.69	Feet	Height of fluid column	13.24	Feet
Total depth	64.93	Feet	Volume in well	8.7	Gallons

(3 well volumes = 26.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:51 11/7/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
10:56	20	21.7	12.2	7.33	165	10.5
11:00	25	21.4	12.26	7.19	156	10.59
11:02	26	21.8	12.28	7.17	152	10.65

Actual purge volume 26 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 11:03 11/7/11 Purged/sampled by Angel M Rivera

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	DAD-21		Date gauged	12/6/11	
Site			Time gauged	13:50	
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	53.24	Feet	Height of fluid column	~~15.79~~ 16.80	Feet
Total depth	~~69.03~~ 70.54	Feet	Volume in well	2.68	Gallons

(3 well volumes = 8.05 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 910 12/7/11 Purge Method Fultz pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
9:12	2	15.3	2654	6.30	51	1967
9:15	2	19.8	2618	6.56	70	1906
9:19	2	19.6	2603	6.69	78	1892
9:24	2	20.0	2598	6.75	80	1889

Actual purge volume 8.5 gal. Field measurements stabilized within ± 10%?

Time/date sampled 9:30 12/7/11 Purged/sampled by Jeffrey 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	DAD-20	Date gauged	12/6/11		
Site		Time gauged	14:05		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	50.64	Feet	Height of fluid column	18.37	Feet
Total depth	69.03	Feet	Volume in well	3.12	Gallons

(3 well volumes = 9.36 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:45/ 12/7/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS ~~DO (mg/L)~~
10:15	2	18.1	2354	7.36	94	1704
10:20	2	19.3	3195	7.20	99	2355
10:22	2	20.1	3274	7.17	101	2426
10:24	2	21.1	3322	7.16	102	2468
10:26	2	20.7	3314	7.17	103	2466

Actual purge volume 9.4 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 10:27 12/7/11 Purged/sampled by Jerry Slawson

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-18		Date gauged	12/6/11	
Site	~~15:07~~		Time gauged	15:07	
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	21.43	Feet	Height of fluid column	35.56	Feet
Total depth	56.99	Feet	Volume in well	6.04	Gallons

(3 well volumes = 18.13 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1310 12/7/11 Purge Method Fultz Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:20	5	16.1	4328	7.23	70	3322
11:31	5	17.0	4328	7.21	72	3326
11:43	5	16.5	4334	7.23	79	3328
11:50	4	17.1	4331	7.21	82	3326

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

Time/date sampled 1154 12/7/11 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	DAD-19	Date gauged	12/6/11		
Site		Time gauged	14:28		
Depth to PSH		Feet	Well diameter		Inches
Depth to water	69.29	Feet	Height of fluid column	29.92	Feet
Total depth	99.21	Feet	Volume in well	5.08	Gallons

(3 well volumes = 15.25 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1212 12/7/11 Purge Method Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
12:28	5	19.8	3699	7.87	40	2812
12:41	5	18.9	3826	7.84	64	2848
12:58	5.0	18.4	3924	7.64	74	3506
13:02	.5	19.9	4016	7.55	79	3518

Actual purge volume 15.50 gal. Field measurements stabilized within ± 10%?

Time/date sampled 13:05 12/7/11 Purged/sampled by Jeremy Slawson

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	DAO-12	Date gauged	12/6/11		
Site	Dominguez	Time gauged	15:35		
Depth to PSH	____ Feet	Well diameter	2	Inches	
Depth to water	48.15 Feet	Height of fluid column	34.21	Feet	
Total depth	82.36 Feet	Volume in well	5.81	Gallons	

(3 well volumes = 17.44 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 13:55 12/7/11 Purge Method Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
14:08	5	18.9	4376	7.71	95	3367
14:19	5	19.2	4384	7.80	63	3366
14:29	5	19.7	4376	7.76	67	3360
14:35	2.5	19.8	4381	7.71	71	3356

Actual purge volume 17.5 gal. Field measurements stabilized within ± 10%? ____

Time/date sampled 1438 12/7/11 Purged/sampled by Jenny Slawson

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	167-1A	Date gauged	11/2/11
Site	River Valley	Time gauged	11:40
Depth to PSH	____ Feet	Well diameter	2 Inches
Depth to water	16.43 Feet	Height of fluid column	9.28 Feet
Total depth	25.71 Feet	Volume in well	1.58 Gallons

(3 well volumes = 4.73 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:46 11/2/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ (mg/L)
12:51	2	20.5	6397	7.70	71	5146
12:56	3	19.5	6290	7.61	64	5070
1:02	4.5	19.1	6235	7.60	51	5021

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

Time/date sampled 13:04 11/2/11 Purged/sampled by Angel A Rivera

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	167-2	Date gauged	11-2-11		
Site	River Valley	Time gauged	11:45		
Depth to PSH	_____ Feet	Well diameter	4	Inches	
Depth to water	17.70 Feet	Height of fluid column	3.44	Feet	
Total depth	21.14 Feet	Volume in well	2.27	Gallons	

(3 well volumes = 6.81 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1:07 11/2/11 Purge Method Bailer 4DS

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~
1:10	5	20.9	2716	7.45	-27	1989
1:15	9	20.9	2721	7.51	-21	1987
1:17	8	19.4	2714	7.34	-44	1990

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

Time/date sampled _____ Purged/sampled by _____

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	167-03		Date gauged	11/2/11	
Site	River Valley Dairy		Time gauged	9:21	
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	23.12	Feet	Height of fluid column	17.81	Feet
Total depth	40.93	Feet	Volume in well	11.75	Gallons

(3 well volumes = 35.3 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:40 11/2/11 Purge Method Pump

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ TDS (mg/L)
9:46	10	22.9	3835	7.95	99	2927
9:50	20	22.9	3857	7.55	96	2944
9:53	30	23.0	3863	7.46	91	2946
9:57	40	22.9	3867	7.44	89	2960

Actual purge volume 40 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 10:01 11/2/11 Purged/sampled by Angel M Rivera

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	11/2/11	
Site	River Valley		Time gauged	10:35	
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	24.87	Feet	Height of fluid column	3.23	Feet
Total depth	28.10	Feet	Volume in well	.54	Gallons

(3 well volumes = 1.6 gallons)

Not enough water to sample. Waited 2 hrs & 3 hrs still no water for sample.

GROUNDWATER SAMPLING DATA

Time/date purged 10:45 11/2/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO~~ (mg/L)
10:48	.5	21.6	7099	7.95	107	5743
	1					
	1.5					
	2					

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

Time/date sampled 11/2/11 Purged/sampled by Angel N Rivera

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-~~05~~05	Date gauged	11/2/11		
Site	River Valley	Time gauged	2:25		
Depth to PSH	_____ Feet	Well diameter	2	Inches	
Depth to water	14.09 Feet	Height of fluid column,	8.53	Feet	
Total depth	22.62 Feet	Volume in well	1.45	Gallons	

(3 well volumes = 4.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 2:28 11/2/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
2:34	2	20.6	4934	8.02	86	3866
2:36	3	19.6	4851	7.64	90	3819
2:38	4.5	19.4	4831	7.54	89	3810
	~~4.5~~					

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

Time/date sampled ~~15~~14:40 11/2/11 Purged/sampled by Ansel N Rivera

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	167-06	Date gauged	11/2/11		
Site	River Valley	Time gauged	9:17		
Depth to PSH	____ Feet	Well diameter	2	Inches	
Depth to water	29.92 Feet	Height of fluid column	6.41	Feet	
Total depth	36.33 Feet	Volume in well	1.09	Gallons	

(3 well volumes = 3.27 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:17 11/2/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
9:30	1	21.7	4709	7.23	4	3613
9:35	2	21.4	4611	7.32	3	3543
9:40	3.5	21.3	4607	7.34	2	3541

Actual purge volume 3.9 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 9:43 11/2/11 Purged/sampled by Rachael Nowlin

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	167-07	Date gauged	11-2-11		
Site	River Valley	Time gauged	10:20		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	16.29	Feet	Height of fluid column	10.97	Feet
Total depth	27.26	Feet	Volume in well	1.8	Gallons

(3 well volumes = 5.6 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11/2/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:35	3	21.7	3136	8.21	155	8.32
10:41	4	20.9	3115	7.93	-182	3.06
10:47	8	20.8	3109	7.86	-180	3.00

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

Time/date sampled 10:55 11/2/11 Purged/sampled by Gabriel Morales

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	167-08	Date gauged	11/2/11	
Site	River valley	Time gauged	2:45	
Depth to PSH	____ Feet	Well diameter	2	Inches
Depth to water	14.74 Feet	Height of fluid column	2.21	Feet
Total depth	16.95 Feet	Volume in well	0.38	Gallons

(3 well volumes = 1.1 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 2:50 11/2/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
2:55	.5	19.5	4518	7.46	99	3528
2:58	1	19.2	4459	7.35	98	3505
2:59	1.5	19.1	4489	7.30	94	3501

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

Time/date sampled 15:00 11/2/11 Purged/sampled by Grose / N Rivera

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: 167-09
Site: River Valley
Date gauged: 11/3/11
Time gauged: 8:12

Depth to PSH: _____ Feet
Depth to water: 13.90 Feet
Total depth: 24.66 Feet
Well diameter: 2 Inches
Height of fluid column: 10.76 Feet
Volume in well: 1.83 Gallons

(3 well volumes = 5.49 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 8:19 11/3/11
Purge Method: Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS ~~DO~~ (mg/L)
8:22	3	19.7	5609	7.47	1	4313
8:24	4	19.5	5510	7.33	5.34	4301
8:26	5.5	17.7	5537	7.37	-18	4363
8:31	6.0	18.4	5554	7.39	-27	4380

Actual purge volume: 6 gal.
Field measurements stabilized within ± 10%? ✓
Time/date sampled: 8:34 11/3/11
Purged/sampled by: Gabriel Morales
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	27-01	Date gauged	11/1/11		
Site	Sunset Dairy	Time gauged	9:25		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	20.73	Feet	Height of fluid column	5.51	Feet
Total depth	26.24	Feet	Volume in well	0.94	Gallons

(3 well volumes = 2.81 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 9:22 11/1/11 Purge Method Bailer TDS

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~
9:29	1	19.8	4785	7.76	[redacted]	3699
9:32	2	20.4	4801	7.67	-93	3717
9:35	3	20.5	4850	7.65	-104	3755

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

Time/date sampled 10:02 11/1/11 Purged/sampled by Gabriel Morales

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	11/1/11		
Site	Sunset Dairy	Time gauged	8:47		
Depth to PSH		Feet	Well diameter	2	Inches
Depth to water	14.99	Feet	Height of fluid column	6.11	Feet
Total depth	21.10	Feet	Volume in well	1.04	Gallons

(3 well volumes = 3.12 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 8:50 11/1/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
8:57	1	22.0	3173	8.99	-36	2353
8:59	2	21.5	3169	7.07	-35	2351
9:02	3.5	21.4	3180	7.00	-31	2358

Actual purge volume 3.5 gal. Field measurements stabilized within ± 10%? ✓

Time/date sampled 9:05 Purged/sampled by S. Sisco/M. Morris

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	11/1/11
Site	Sunset	Time gauged	12:30
Depth to PSH	1 Feet	Well diameter	2 Inches
Depth to water	11.29 Feet	Height of fluid column	2.4 Feet
Total depth	13.69 Feet	Volume in well	0.4 Gallons

(3 well volumes = 1.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 12:33 11/1/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
12:35	0.5	22.6	3781	7.64	-32	28.38
12:37	1	22.2	3775	7.31	-21	1830
12:39	1.5	22.4	3725	7.29	-22	2789

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

Time/date sampled 12:42 11/1/11 Purged/sampled by Thomas Haines

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	257-260-01	Date gauged	11/1/11		
Site		Time gauged	11:29		
Depth to PSH		Feet	Well diameter	4	Inches
Depth to water	12.79	Feet	Height of fluid column	7.54	Feet
Total depth	20.29	Feet	Volume in well	4.98	Gallons

(3 well volumes = 14.93 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 11:29 11/1/11 Purge Method Bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	~~DO (mg/L)~~ TDS
11:46	12	19.4	4258	7.27	0	3258
11:47	13	19.3	4281	7.22	-21	3271
11:49	14	19.2	4297	7.18	-28	3284
11:50	15	19.2	4296	7.17	-33	3286

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

Time/date sampled 11/1/11 11:52 Purged/sampled by Thorsten Heinze

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)

TRACEANALYSIS, INC.

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

Linda Armstrong
Dona Ana Dairies

P.O. Box 10
Mesquite, NM, 88048

Report Date: November 10, 2011

Work Order: 11102617

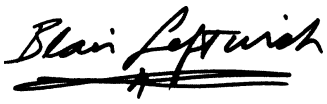
Project Location: Various Dairies, Dona Ana Co., NM
Project Name: Dona Ana Dairies Consortium

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
280726	DAD-03	water	2011-10-26	14:25	2011-10-26
280727	DAD-04	water	2011-10-26	14:05	2011-10-26
280728	DAD-05	water	2011-10-26	13:37	2011-10-26
280729	DAD-07	water	2011-10-26	11:51	2011-10-26
280730	DAD-08	water	2011-10-26	12:10	2011-10-26
280731	DAD-09	water	2011-10-26	10:43	2011-10-26
280732	DAD-10	water	2011-10-26	09:45	2011-10-26
280733	DAD-17	water	2011-10-26	13:00	2011-10-26
280734	DAD-22	water	2011-10-26	15:15	2011-10-26

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.

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



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

Report Contents

Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2011-10-26 and assigned to work order 11102617. Samples for work order 11102617 were received intact at a temperature of 0.2 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	73269	2011-10-27 at 18:36	86293	2011-10-27 at 18:36
Chloride (IC)	E 300.0	73270	2011-10-27 at 22:34	86294	2011-10-27 at 22:34
Chloride (IC)	E 300.0	73276	2011-10-29 at 18:47	86305	2011-10-29 at 18:47
Chloride (IC)	E 300.0	73280	2011-10-29 at 22:46	86310	2011-10-29 at 22:46
NO3 (IC)	E 300.0	73269	2011-10-27 at 18:36	86293	2011-10-27 at 18:36
NO3 (IC)	E 300.0	73270	2011-10-27 at 22:34	86294	2011-10-27 at 22:34
NO3 (IC)	E 300.0	73276	2011-10-29 at 18:47	86305	2011-10-29 at 18:47
NO3 (IC)	E 300.0	73280	2011-10-29 at 22:46	86310	2011-10-29 at 22:46
SO4 (IC)	E 300.0	73269	2011-10-27 at 18:36	86293	2011-10-27 at 18:36
SO4 (IC)	E 300.0	73270	2011-10-27 at 22:34	86294	2011-10-27 at 22:34
SO4 (IC)	E 300.0	73276	2011-10-29 at 18:47	86305	2011-10-29 at 18:47
SO4 (IC)	E 300.0	73280	2011-10-29 at 22:46	86310	2011-10-29 at 22:46
TDS	SM 2540C	72981	2011-10-28 at 13:50	85955	2011-10-28 at 13:50
TDS	SM 2540C	72981	2011-10-28 at 13:50	85956	2011-10-28 at 13:50
TKN	E 351.3	73261	2011-11-10 at 09:31	86300	2011-11-10 at 14:14

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 11102617 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: 280726 - DAD-03

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86293	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73269	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1790**	**1790**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280726 - DAD-03

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86293	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73269	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	U	U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280726 - DAD-03

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86293	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73269	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**1100**	**1100**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280726 - DAD-03

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	85955	Date Analyzed:	2011-10-28	Analyzed By:	MD
Prep Batch:	72981	Sample Preparation:	2011-10-28	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	**5420**	**5420**	<25.0	mg/L	5	25.0	5	5

Sample: 280726 - DAD-03

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86300 Date Analyzed: 2011-11-10 Analyzed By: AH
Prep Batch: 73261 Sample Preparation: 2011-11-10 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 J	J	2	**3.22**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280727 - DAD-04

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86293 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73269 Sample Preparation: 2011-10-27 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**590**	**590**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280727 - DAD-04

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86293 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73269 Sample Preparation: 2011-10-27 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N U	U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280727 - DAD-04

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86293 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73269 | Sample Preparation: 2011-10-27 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**380**	**380**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280727 - DAD-04

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85955 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**2950**	**2950**	<25.0	mg/L	5	25.0	5	5

Sample: 280727 - DAD-04

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86300 | Date Analyzed: 2011-11-10 | Analyzed By: AH
Prep Batch: 73261 | Sample Preparation: 2011-11-10 | 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	J	2	**2.80**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280728 - DAD-05

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86294 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73270 | Sample Preparation: 2011-10-27 | Prepared By: JR

continued . . .

sample 280728 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	Qs	1	**647**	**647**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280728 - DAD-05

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86294	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73270	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	Qs,U	Qs,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280728 - DAD-05

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86294	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73270	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	Qs	1	**377**	**377**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280728 - DAD-05

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	85955	Date Analyzed:	2011-10-28	Analyzed By:	MD
Prep Batch:	72981	Sample Preparation:	2011-10-28	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	**900**	**900**	<25.0	mg/L	5	25.0	5	5

Sample: 280728 - DAD-05

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86300	Date Analyzed:	2011-11-10	Analyzed By:	AH
Prep Batch:	73261	Sample Preparation:	2011-11-10	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	J	J	2	**2.66**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280729 - DAD-07

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86294	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73270	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	Qs	1	**591**	**591**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280729 - DAD-07

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86294	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73270	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	Qs	Qs	1	**5.22**	**5.22**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280729 - DAD-07

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86294	Date Analyzed:	2011-10-27	Analyzed By:	JR
Prep Batch:	73270	Sample Preparation:	2011-10-27	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	Qs	1	**426**	**426**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280729 - DAD-07

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 85955 Date Analyzed: 2011-10-28 Analyzed By: MD
Prep Batch: 72981 Sample Preparation: 2011-10-28 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	**750**	**750**	<25.0	mg/L	5	25.0	5	5

Sample: 280729 - DAD-07

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86300 Date Analyzed: 2011-11-10 Analyzed By: AH
Prep Batch: 73261 Sample Preparation: 2011-11-10 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	J	J	2	**2.24**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280730 - DAD-08

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 Sample Preparation: 2011-10-27 Prepared By: JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	Qs	1	**1260**	**1260**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280730 - DAD-08

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86294 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73270 | Sample Preparation: 2011-10-27 | Prepared By: JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	Qs	Qs	1	**2.80**	**2.80**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280730 - DAD-08

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86294 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73270 | Sample Preparation: 2011-10-27 | Prepared By: JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	Qs	1	**471**	**471**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280730 - DAD-08

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85955 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**2500**	**2500**	<25.0	mg/L	5	25.0	5	5

Sample: 280730 - DAD-08

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86300 | Date Analyzed: 2011-11-10 | Analyzed By: AH
Prep Batch: 73261 | Sample Preparation: 2011-11-10 | 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	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280731 - DAD-09

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86305	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73276	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**728**	**728**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280731 - DAD-09

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86305	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73276	Sample Preparation:	2011-10-29	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	H	1	**77.7**	**77.7**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 280731 - DAD-09

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86305	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73276	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**433**	**433**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280731 - DAD-09

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	85955	Date Analyzed:	2011-10-28	Analyzed By:	MD
Prep Batch:	72981	Sample Preparation:	2011-10-28	Prepared By:	MD

continued . . .

sample 280731 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**1600**	**1600**	<25.0	mg/L	5	25.0	5	5

Sample: 280731 - DAD-09

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86300 — Date Analyzed: 2011-11-10 — Analyzed By: AH
Prep Batch: 73261 — Sample Preparation: 2011-11-10 — 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	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280732 - DAD-10

Laboratory: El Paso
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86305 — Date Analyzed: 2011-10-29 — Analyzed By: JR
Prep Batch: 73276 — Sample Preparation: 2011-10-29 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**384**	**384**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280732 - DAD-10

Laboratory: El Paso
Analysis: NO3 (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86305 — Date Analyzed: 2011-10-29 — Analyzed By: JR
Prep Batch: 73276 — Sample Preparation: 2011-10-29 — 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	H	1	**3.33**	**3.33**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280732 - DAD-10

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**206**	**206**	<2.50	mg/L	5	2.50	2.5	0.5

Sample: 280732 - DAD-10

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**1150**	**1150**	<25.0	mg/L	5	25.0	5	5

Sample: 280732 - DAD-10

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86300 | Date Analyzed: 2011-11-10 | Analyzed By: AH
Prep Batch: 73261 | Sample Preparation: 2011-11-10 | 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	J	J	2	**2.80**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280733 - DAD-17

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**175**	**175**	<2.50	mg/L	5	2.50	2.5	0.5

Sample: 280733 - DAD-17

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | Sample Preparation: 2011-10-29 | 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	H,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280733 - DAD-17

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**186**	**186**	<2.50	mg/L	5	2.50	2.5	0.5

Sample: 280733 - DAD-17

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**724**	**724**	<10.0	mg/L	2	10.0	5	5

Sample: 280733 - DAD-17

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86300 | Date Analyzed: 2011-11-10 | Analyzed By: AH
Prep Batch: 73261 | Sample Preparation: 2011-11-10 | 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	J	J	2	**3.50**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280734 - DAD-22

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**781**	**781**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280734 - DAD-22

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | Sample Preparation: 2011-10-29 | 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	H	1	**29.5**	**29.5**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280734 - DAD-22

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**494**	**494**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280734 - DAD-22

Laboratory: El Paso
Analysis: TDS — Analytical Method: SM 2540C — Prep Method: N/A
QC Batch: 85956 — Date Analyzed: 2011-10-28 — Analyzed By: MD
Prep Batch: 72981 — Sample Preparation: 2011-10-28 — 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	**3860**	**3860**	<20.0	mg/L	4	20.0	5	5

Sample: 280734 - DAD-22

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86300 — Date Analyzed: 2011-11-10 — Analyzed By: AH
Prep Batch: 73261 — Sample Preparation: 2011-11-10 — 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 J	J	2	**2.52**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 85955 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | QC Preparation: 2011-10-28 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73269 | QC Preparation: 2011-10-27 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73269 | QC Preparation: 2011-10-27 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73269 | QC Preparation: 2011-10-27 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 QC Preparation: 2011-10-27 Prepared By: JR

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

Method Blank (1)

QC Batch: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 QC Preparation: 2011-10-27 Prepared By: JR

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

Method Blank (1)

QC Batch: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 QC Preparation: 2011-10-27 Prepared By: JR

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

Method Blank (1)

QC Batch: 86300 Date Analyzed: 2011-11-10 Analyzed By: AH
Prep Batch: 73261 QC Preparation: 2011-11-10 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: 86305 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73276 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86305 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73276 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86305 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73276 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 280731

QC Batch: 85955 Date Analyzed: 2011-10-28 Analyzed By: MD
Prep Batch: 72981 QC Preparation: 2011-10-28 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1450	1600	mg/L	5	10	10

Duplicate (1) Duplicated Sample: 280875

QC Batch: 85956 Date Analyzed: 2011-10-28 Analyzed By: MD
Prep Batch: 72981 QC Preparation: 2011-10-28 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1260	1290	mg/L	2	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 85955 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | QC Preparation: 2011-10-28 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	974	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 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	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: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | QC Preparation: 2011-10-28 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1030	mg/L	1	1000	<5.00	103	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: 86293 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73269 | QC Preparation: 2011-10-27 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	27.4	mg/L	1	25.0	<0.500	110	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	27.4	mg/L	1	25.0	<0.500	110	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: 86293 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73269 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.48	mg/L	1	5.00	<0.100	110	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	5.47	mg/L	1	5.00	<0.100	109	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: 86293 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73269 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	27.1	mg/L	1	25.0	<0.500	108	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
Sulfate		1	27.0	mg/L	1	25.0	<0.500	108	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: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	27.4	mg/L	1	25.0	<0.500	110	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	27.4	mg/L	1	25.0	<0.500	110	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: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.48	mg/L	1	5.00	<0.100	110	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	5.48	mg/L	1	5.00	<0.100	110	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: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	27.1	mg/L	1	25.0	<0.500	108	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
Sulfate		1	27.1	mg/L	1	25.0	<0.500	108	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: 86300 | Date Analyzed: 2011-11-10 | Analyzed By: AH
Prep Batch: 73261 | QC Preparation: 2011-11-10 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	53.9	mg/L	1	50.0	<2.17	108	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	45.5	mg/L	1	50.0	<2.17	91	68.6 - 108	17	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: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | QC Preparation: 2011-10-29 | Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | QC Preparation: 2011-10-29 | Prepared By: JR

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	4.83	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: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		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
Sulfate		1	24.1	mg/L	1	25.0	<0.500	96	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: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.97	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.96	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: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	24.8	mg/L	1	25.0	<0.500	99	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
Sulfate		1	24.7	mg/L	1	25.0	<0.500	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: 279641

QC Batch: 86293 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73269 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	35.8	mg/L	1.25	31.2	2.67	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	35.2	mg/L	1.25	31.2	2.67	104	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: 279641

QC Batch: 86293 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73269 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	7.14	mg/L	1.25	6.25	0.56	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
Nitrate-N		1	7.04	mg/L	1.25	6.25	0.56	104	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: 279641

QC Batch: 86293 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73269 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	35.4	mg/L	1.25	31.2	2.83	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
Sulfate		1	34.8	mg/L	1.25	31.2	2.83	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: 280730

QC Batch: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR
Prep Batch: 73270 QC Preparation: 2011-10-27 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride Qs	Qs	1	3130	mg/L	62.5	1560	1260	120	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 Qs	Qs	1	3140	mg/L	62.5	1560	1260	120	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: 280730

QC Batch: 86294 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73270 | QC Preparation: 2011-10-27 | Prepared By: JR

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	Qs	Qs	1	348	mg/L	62.5	312	<6.25	111	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	Qs	1	347	mg/L	62.5	312	<6.25	110	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: 280730

QC Batch: 86294 | Date Analyzed: 2011-10-27 | Analyzed By: JR
Prep Batch: 73270 | QC Preparation: 2011-10-27 | Prepared By: JR

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	Qs	Qs	1	2260	mg/L	62.5	1560	471	115	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
Sulfate	Qs	Qs	1	2270	mg/L	62.5	1560	471	115	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: 280734

QC Batch: 86300 | Date Analyzed: 2011-11-10 | Analyzed By: AH
Prep Batch: 73261 | QC Preparation: 2011-11-10 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	36.4	mg/L	1	50.0	2.52	68	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	35.7	mg/L	1	50.0	2.52	66	53.2 - 117	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: 280733

QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		[1]	1530	mg/L	55.6	1390	175	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
Chloride		[1]	1540	mg/L	55.6	1390	175	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: 280733

QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		[1]	267	mg/L	55.6	278	<5.56	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]	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: 280733

QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73276 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		[1]	1530	mg/L	55.6	1390	186	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
Sulfate		1	1530	mg/L	55.6	1390	186	97	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: 280870

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1810	mg/L	55.6	1390	380	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	1810	mg/L	55.6	1390	380	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: 280870

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	286	mg/L	55.6	278	8.3	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	286	mg/L	55.6	278	8.3	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: 280870

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		[1]	1930	mg/L	55.6	1390	475	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
Sulfate		[1]	1930	mg/L	55.6	1390	475	105	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: 86293 | Date Analyzed: 2011-10-27 | 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	23.9	96	90 - 110	2011-10-27

Standard (CCV-1)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | 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	4.74	95	90 - 110	2011-10-27

Standard (CCV-1)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-10-27

Standard (CCV-2)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | 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	23.9	96	90 - 110	2011-10-27

Standard (CCV-2)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | 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	4.75	95	90 - 110	2011-10-27

Standard (CCV-2)

QC Batch: 86293 | Date Analyzed: 2011-10-27 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-10-27

Standard (CCV-1)

QC Batch: 86294 | Date Analyzed: 2011-10-27 | 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	23.9	96	90 - 110	2011-10-27

Standard (CCV-1)

QC Batch: 86294 | Date Analyzed: 2011-10-27 | 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	4.75	95	90 - 110	2011-10-27

Standard (CCV-1)

QC Batch: 86294 | Date Analyzed: 2011-10-27 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-10-27

Standard (CCV-2)

QC Batch: 86294 Date Analyzed: 2011-10-27 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	23.9	96	90 - 110	2011-10-27

Standard (CCV-2)

QC Batch: 86294 Date Analyzed: 2011-10-27 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	4.76	95	90 - 110	2011-10-27

Standard (CCV-2)

QC Batch: 86294 Date Analyzed: 2011-10-27 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.6	94	90 - 110	2011-10-27

Standard (ICV-1)

QC Batch: 86300 Date Analyzed: 2011-11-10 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	5.07	101	85 - 115	2011-11-10

Standard (CCV-1)

QC Batch: 86300 | Date Analyzed: 2011-11-10 | 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	5.66	113	85 - 115	2011-11-10

Standard (CCV-1)

QC Batch: 86305 | Date Analyzed: 2011-10-29 | 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	2011-10-29

Standard (CCV-1)

QC Batch: 86305 | Date Analyzed: 2011-10-29 | 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	2011-10-29

Standard (CCV-1)

QC Batch: 86305 | Date Analyzed: 2011-10-29 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.1	96	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86305 | Date Analyzed: 2011-10-29 | 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	2011-10-29

Standard (CCV-2)

QC Batch: 86305 Date Analyzed: 2011-10-29 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	2011-10-29

Standard (CCV-2)

QC Batch: 86305 Date Analyzed: 2011-10-29 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-10-29

Standard (CCV-1)

QC Batch: 86310 Date Analyzed: 2011-10-29 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	2011-10-29

Standard (CCV-1)

QC Batch: 86310 Date Analyzed: 2011-10-29 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	2011-10-29

Standard (CCV-1)

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86310 Date Analyzed: 2011-10-29 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	25.0	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86310 Date Analyzed: 2011-10-29 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	4.98	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.7	99	90 - 110	2011-10-29

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 then 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.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1110267

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: / Fax #: / E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Dona Ana Dairies, PO Box 10, Mesquite, NM 88048	
Project #:	Project Name: Dona Ana Dairies Consortium
Project Location (including state): Various Dairies, Dona Ana County, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate		Turn Around Time	Hold
	~~DAD-01~~	~~1~~	~~500ml~~	X						X		X											X	X						
	DAD-01	1	500ml	X								X											X		X	X	X			
	DAD-02	1	500ml	X						X		X											X	X						
	~~DAD-02~~	~~1~~	~~500ml~~	X								X											X		X	X	X			
280725-1	DAD-03	1	500ml	X						X		X		10/26/11	14:25								X	X						
28-2	DAD-03	1	500ml	X								X		10/26/11	14:25								X		X	X	X			
27-1	DAD-04	1	500ml	X						X		X		10/26/11	14:05								X	X						
27-2	DAD-04	1	500ml	X								X		10/26/11	14:05								X		X	X	X			
23-1	DAD-05	1	500ml	X						X		X		10/26/11	13:37								X	X						
23-2	DAD-05	1	500ml	X								X		10/26/11	13:37								X		X	X	X			
	~~DAD-06~~	~~1~~	~~500ml~~	X						X		X											X	X						
	DAD-06	1	500ml	X								X											X		X	X	X			
280729-1	DAD-07	1	500ml	X						X		X		10-26-11	11:51								X	X						
29-1	DAD-07	1	500ml	X								X		10-26-11	11:51								X		X	X	X			
30-1	DAD-08	1	500ml	X						X		X		10-26-11	12:10								X	X						
30-2	DAD-08	1	500ml	X								X		10-26-11	12:10								X		X	X	X			

ANALYSIS REQUEST

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Thorsten Meinds	10/26/11	15:50		10/26/11	1550
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	10/26/11	1625			

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 0.3 °C
Log-In Review

Remarks: NO_3, Cl, SO_4, TDS done in EP.

Dry Weight Basis Required
TRRP Report Required

(10)

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1110261?

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #:
Contact Person: Victor Ayala	Fax #:
Invoice to (if different from above): Dona Ana Dairies, PO Box 10, Mesquite, NM 88048	E-mail: vajala@dhpump.com
Project #:	Project Name: Dona Ana Dairies Consortium
Project Location (including state): Various Dairies, Dona Ana County, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
28° 751-1	DAD-09	1	500 ml	X						X		X		10-26-11	10:43
51-2	DAD-09	1	500ml	X								X		10-26-11	10:43
52-1	DAD-10	1	500ml	X						X		X		10-26-11	9:45
52-2	DAD-10	1	500ml	X								X		10-26-11	9:45
	~~DAD-13~~	~~1~~	~~500ml~~	~~X~~						~~X~~		~~X~~			
	DAD-13	1	~~500ml~~	X								X			
	DAD-14	1	500ml	X						~~X~~		~~X~~			
	DAD-14	1	500 ml	X								X			
	DAD-16	1	500ml	X						X		X			
	~~DAD-16~~	~~1~~	~~500ml~~	~~X~~								~~X~~			
2803-1	DAD-17	1	500ml	X						X		X		10/26/11	13:00
53-2	DAD-17	1	500ml	X								X		10/26/11	13:00
54-1	DAD-22	1	500ml	X						X		X		10/26/11	15:15
54-2	DAD-22	1	500ml	X								X		10/26/11	15:15
	~~DAD-22~~	~~1~~	~~500ml~~	~~X~~						~~X~~		~~X~~			
	~~DAD-22~~	~~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 EPA 300	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate		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			
							X	X						
							~~X~~		~~X~~	~~X~~	~~X~~			
							X	X						
							X		X	X	X			
							X	X						
							X		X	X	X			
							~~X~~	~~X~~						
							X		~~X~~	~~X~~	~~X~~			

Relinquished By: Thorsten Meinus	Date: 10/26/11	Time: 15:50
Relinquished By:	Date: 10/26/11	Time: 1625

Received By:	Date: 10/26/11	Time: 1551
Received at Laboratory By:	Date:	Time:

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 0.2/0.2 °C
Log-In Review

Remarks: NO_3, Cl, SO_4, + TDS dom. - EP.

Dry Weight Basis Required
TRRP Report Required

8

TRACEANALYSIS, INC.

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

Linda Armstrong
Dona Ana Dairies

P.O. Box 10
Mesquite, NM, 88048

Report Date: November 11, 2011

Work Order: 11102805

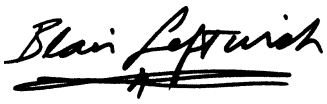
Project Location: Various Dairies, Dona Ana Co., NM
Project Name: Dona Ana Dairies Consortium

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
280869	DAD-01	water	2011-10-27	11:55	2011-10-27
280870	DAD-02	water	2011-10-27	09:06	2011-10-27
280871	DAD-06	water	2011-10-27	07:28	2011-10-27
280872	DAD-13	water	2011-10-27	11:26	2011-10-27
280873	DAD-14	water	2011-10-27	09:45	2011-10-27
280874	DAD-16	water	2011-10-27	08:34	2011-10-27
280875	DAD-11	water	2011-10-27	10:50	2011-10-27

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.

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



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

Report Contents

Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2011-10-27 and assigned to work order 11102805. Samples for work order 11102805 were received intact at a temperature of 1.8 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	73280	2011-10-29 at 22:46	86310	2011-10-29 at 22:46
Chloride (IC)	E 300.0	73283	2011-10-29 at 01:44	86312	2011-10-29 at 01:44
Chloride (IC)	E 300.0	73285	2011-10-29 at 05:42	86314	2011-10-29 at 05:42
NO3 (IC)	E 300.0	73280	2011-10-29 at 22:46	86310	2011-10-29 at 22:46
NO3 (IC)	E 300.0	73283	2011-10-29 at 01:44	86312	2011-10-29 at 01:44
NO3 (IC)	E 300.0	73285	2011-10-29 at 05:42	86314	2011-10-29 at 05:42
SO4 (IC)	E 300.0	73280	2011-10-29 at 22:46	86310	2011-10-29 at 22:46
SO4 (IC)	E 300.0	73283	2011-10-29 at 01:44	86312	2011-10-29 at 01:44
SO4 (IC)	E 300.0	73285	2011-10-29 at 05:42	86314	2011-10-29 at 05:42
TDS	SM 2540C	72981	2011-10-28 at 13:50	85956	2011-10-28 at 13:50
TKN	E 351.3	73097	2011-11-03 at 13:42	86190	2011-11-03 at 09:31

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 11102805 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: 280869 - DAD-01

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86310	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73280	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**436**	**436**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280869 - DAD-01

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86310	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73280	Sample Preparation:	2011-10-29	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	**9.56**	**9.56**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280869 - DAD-01

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86310	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73280	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**256**	**256**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280869 - DAD-01

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	85956	Date Analyzed:	2011-10-28	Analyzed By:	MD
Prep Batch:	72981	Sample Preparation:	2011-10-28	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	**1840**	**1840**	<20.0	mg/L	4	20.0	5	5

Sample: 280869 - DAD-01

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86190 Date Analyzed: 2011-11-03 Analyzed By: AH
Prep Batch: 73097 Sample Preparation: 2011-11-03 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	J	2	**3.50**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280870 - DAD-02

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 Sample Preparation: 2011-10-29 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**380**	**380**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280870 - DAD-02

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 Sample Preparation: 2011-10-29 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	H	1	**8.30**	**8.30**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280870 - DAD-02

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**475**	**475**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280870 - DAD-02

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**1360**	**1360**	<20.0	mg/L	4	20.0	5	5

Sample: 280870 - DAD-02

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86190 | Date Analyzed: 2011-11-03 | Analyzed By: AH
Prep Batch: 73097 | Sample Preparation: 2011-11-03 | 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	**2.52**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280871 - DAD-06

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86312 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73283 | Sample Preparation: 2011-10-29 | Prepared By: JR

continued ...

sample 280871 continued . . .

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	Qs	1	**322**	**322**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280871 - DAD-06

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86312 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73283 | Sample Preparation: 2011-10-29 | 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	H	1	**9.20**	**9.20**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280871 - DAD-06

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86312 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73283 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	Qs	1	**228**	**228**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280871 - DAD-06

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**1060**	**1060**	<10.0	mg/L	2	10.0	5	5

Sample: 280871 - DAD-06

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86190	Date Analyzed:	2011-11-03	Analyzed By:	AH
Prep Batch:	73097	Sample Preparation:	2011-11-03	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	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280872 - DAD-13

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86312	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73283	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	Qs	1	**536**	**536**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280872 - DAD-13

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86312	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73283	Sample Preparation:	2011-10-29	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	H	1	**7.51**	**7.51**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280872 - DAD-13

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86312	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73283	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	Qs	1	**321**	**321**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280872 - DAD-13

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 85956 Date Analyzed: 2011-10-28 Analyzed By: MD
Prep Batch: 72981 Sample Preparation: 2011-10-28 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	**3700**	**3700**	<25.0	mg/L	5	25.0	5	5

Sample: 280872 - DAD-13

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86190 Date Analyzed: 2011-11-03 Analyzed By: AH
Prep Batch: 73097 Sample Preparation: 2011-11-03 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	J	2	**2.52**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280873 - DAD-14

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 Sample Preparation: 2011-10-29 Prepared By: JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	Qs	1	**835**	**835**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280873 - DAD-14

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86312 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73283 | Sample Preparation: 2011-10-29 | 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	H	1	**17.2**	**17.2**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280873 - DAD-14

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86312 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73283 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter		F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	Qs	1	**447**	**447**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280873 - DAD-14

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**1780**	**1780**	<25.0	mg/L	5	25.0	5	5

Sample: 280873 - DAD-14

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86190 | Date Analyzed: 2011-11-03 | Analyzed By: AH
Prep Batch: 73097 | Sample Preparation: 2011-11-03 | 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	J	2	**2.80**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280874 - DAD-16

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86314	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73285	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**410**	**410**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280874 - DAD-16

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86314	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73285	Sample Preparation:	2011-10-29	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	H,U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280874 - DAD-16

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86314	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73285	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**408**	**408**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 280874 - DAD-16

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	85956	Date Analyzed:	2011-10-28	Analyzed By:	MD
Prep Batch:	72981	Sample Preparation:	2011-10-28	Prepared By:	MD

continued . . .

sample 280874 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**1520**	**1520**	<10.0	mg/L	2	10.0	5	5

Sample: 280874 - DAD-16

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86190	Date Analyzed:	2011-11-03	Analyzed By:	AH
Prep Batch:	73097	Sample Preparation:	2011-11-03	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	**3.36**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 280875 - DAD-11

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86314	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73285	Sample Preparation:	2011-10-29	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**434**	**434**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280875 - DAD-11

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86314	Date Analyzed:	2011-10-29	Analyzed By:	JR
Prep Batch:	73285	Sample Preparation:	2011-10-29	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	U	1	<0.500	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 280875 - DAD-11

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86314 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73285 | Sample Preparation: 2011-10-29 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**215**	**215**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 280875 - DAD-11

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | Sample Preparation: 2011-10-28 | 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	**1290**	**1290**	<10.0	mg/L	2	10.0	5	5

Sample: 280875 - DAD-11

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86190 | Date Analyzed: 2011-11-03 | Analyzed By: AH
Prep Batch: 73097 | Sample Preparation: 2011-11-03 | 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	U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86190 | Date Analyzed: 2011-11-03 | Analyzed By: AH
Prep Batch: 73097 | QC Preparation: 2011-11-03 | 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: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86314 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73285 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86314 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73285 QC Preparation: 2011-10-29 Prepared By: JR

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

Method Blank (1)

QC Batch: 86314 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73285 QC Preparation: 2011-10-29 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 280875

QC Batch: 85956 Date Analyzed: 2011-10-28 Analyzed By: MD
Prep Batch: 72981 QC Preparation: 2011-10-28 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1260	1290	mg/L	2	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 85956 | Date Analyzed: 2011-10-28 | Analyzed By: MD
Prep Batch: 72981 | QC Preparation: 2011-10-28 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1030	mg/L	1	1000	<5.00	103	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: 86190 | Date Analyzed: 2011-11-03 | Analyzed By: AH
Prep Batch: 73097 | QC Preparation: 2011-11-03 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.5	mg/L	1	50.0	<2.17	87	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	44.8	mg/L	1	50.0	<2.17	90	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: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.97	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.96	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: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	24.8	mg/L	1	25.0	<0.500	99	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
Sulfate		1	24.7	mg/L	1	25.0	<0.500	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: 86312 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73283 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.93	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: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		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.	Rec. Limit	RPD	RPD Limit
Sulfate		1	24.7	mg/L	1	25.0	<0.500	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: 86314 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73285 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.1	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86314 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73285 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.95	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.96	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: 86314 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73285 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	24.7	mg/L	1	25.0	<0.500	99	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
Sulfate		1	24.7	mg/L	1	25.0	<0.500	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: 280878

QC Batch: 86190 | Date Analyzed: 2011-11-03 | Analyzed By: AH
Prep Batch: 73097 | QC Preparation: 2011-11-03 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	33.2	mg/L	1	50.0	<2.17	66	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	33.3	mg/L	1	50.0	<2.17	67	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: 280870

QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1810	mg/L	55.6	1390	380	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	1810	mg/L	55.6	1390	380	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: 280870

QC Batch: 86310 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73280 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	286	mg/L	55.6	278	8.3	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	286	mg/L	55.6	278	8.3	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: 280870

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73280 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1930	mg/L	55.6	1390	475	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
Sulfate		1	1930	mg/L	55.6	1390	475	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: 280873

QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride Qs	Qs	1	1730	mg/L	55.6	1390	835	64	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 Qs	Qs	1	1740	mg/L	55.6	1390	835	65	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: 280873

QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		[1]	285	mg/L	55.6	278	17.2	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]	285	mg/L	55.6	278	17.2	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: 280873

QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73283 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate [Qs]	Qs	[1]	1620	mg/L	55.6	1390	447	84	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
Sulfate [Qs]	Qs	[1]	1620	mg/L	55.6	1390	447	84	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: 280875

QC Batch: 86314 Date Analyzed: 2011-10-29 Analyzed By: JR
Prep Batch: 73285 QC Preparation: 2011-10-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		[1]	1840	mg/L	55.6	1390	434	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]	1840	mg/L	55.6	1390	434	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: 280875

QC Batch: 86314 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73285 | QC Preparation: 2011-10-29 | 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	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	276	mg/L	55.6	278	<5.56	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: 280875

QC Batch: 86314 | Date Analyzed: 2011-10-29 | Analyzed By: JR
Prep Batch: 73285 | QC Preparation: 2011-10-29 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1610	mg/L	55.6	1390	215	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
Sulfate		1	1610	mg/L	55.6	1390	215	100	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: 86190 | Date Analyzed: 2011-11-03 | 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	4.48	90	85 - 115	2011-11-03

Standard (CCV-1)

QC Batch: 86190 | Date Analyzed: 2011-11-03 | 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	2011-11-03

Standard (CCV-1)

QC Batch: 86310 | Date Analyzed: 2011-10-29 | 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	2011-10-29

Standard (CCV-1)

QC Batch: 86310 | Date Analyzed: 2011-10-29 | 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	2011-10-29

Standard (CCV-1)

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86310 Date Analyzed: 2011-10-29 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	25.0	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86310 Date Analyzed: 2011-10-29 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	4.98	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86310 Date Analyzed: 2011-10-29 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.7	99	90 - 110	2011-10-29

Standard (CCV-1)

QC Batch: 86312 Date Analyzed: 2011-10-29 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	25.0	100	90 - 110	2011-10-29

Standard (CCV-1)

QC Batch: 86312 Date Analyzed: 2011-10-29 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	4.98	100	90 - 110	2011-10-29

Standard (CCV-1)

QC Batch: 86312 Date Analyzed: 2011-10-29 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.7	99	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86312 Date Analyzed: 2011-10-29 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	25.1	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86312 Date Analyzed: 2011-10-29 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	4.99	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86312 | Date Analyzed: 2011-10-29 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.7	99	90 - 110	2011-10-29

Standard (CCV-1)

QC Batch: 86314 | Date Analyzed: 2011-10-29 | 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	25.1	100	90 - 110	2011-10-29

Standard (CCV-1)

QC Batch: 86314 | Date Analyzed: 2011-10-29 | 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	4.99	100	90 - 110	2011-10-29

Standard (CCV-1)

QC Batch: 86314 | Date Analyzed: 2011-10-29 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.7	99	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86314 | Date Analyzed: 2011-10-29 | 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	25.0	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86314 Date Analyzed: 2011-10-29 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	4.98	100	90 - 110	2011-10-29

Standard (CCV-2)

QC Batch: 86314 Date Analyzed: 2011-10-29 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.6	98	90 - 110	2011-10-29

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 then 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.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 11102805

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Fax #:
E-mail: vajala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Dona Ana Dairies, PO Box 10, Mesquite, NM 88048
Project #:
Project Name: Dona Ana Dairies Consortium
Project Location (including state): Various Dairies, Dona Ana County, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
290869-1	DAD-01	1	500ml	X						X		X		10/27/11	11:55
69-2	DAD-01	1	500ml	X								X		10/27/11	11:55
70-1	DAD-02	1	500ml	X						X		X		10/27/11	09:06
70-2	DAD-02	1	500ml	X								X		10/27/11	09:06
	~~DAD-03~~	~~1~~	~~500ml~~	~~X~~						~~X~~		~~X~~			
	DAD-03	1	500ml	X								X			
	DAD-04	1	500ml	X						X		X			
	DAD-04	1	500ml	X								X			
	DAD-05	1	500ml	X						X		X			
	~~DAD-05~~	~~1~~	~~500ml~~	~~X~~								~~X~~			
290871-1	DAD-06	1	500ml	X						X		X		10/27/11	07:28
290871-2	DAD-06	1	500ml	X								X		10/27/11	07:28
	~~DAD-07~~	~~1~~	~~500ml~~	~~X~~						~~X~~		~~X~~			
	DAD-07	1	500ml	X								X			
	DAD-08	1	500ml	X						X		X			
	~~DAD-08~~	~~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 EPA 300	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate		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			
							X	X						
							~~X~~		~~X~~	~~X~~	~~X~~			
							X	X						
							X		X	X	X			
							~~X~~	~~X~~						
							X		X	X	X			
							X	X						
							~~X~~		~~X~~	~~X~~	~~X~~			

Relinquished By: Thorsten Meinus Date: 10/27/11 Time: 16:10
Received By: Date: 10/27/11 Time: 1620

Relinquished By: Date: 10/28/11 Time: 1625
Received at Laboratory By: Brenda Ward Date: 10/29/11 Time: 9:30

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1.9 | 1.8 | 2.3 °C
Log-in Review JG

Remarks: NO_3, Cl, SO_4 + TDS done in Ep. 3.7/39 emailed LS 46975972 JH

Dry Weight Basis Required
TRRP Report Required

(6)

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1102805

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Fax #:
E-mail: vajala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Dona Ana Dairies, PO Box 10, Mesquite, NM 88048
Project #:
Project Name: Dona Ana Dairies Consortium
Project Location (including state): Various Dairies, Dona Ana County, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~DAD-09~~	1	~~500 ml~~	X						X		X			
	DAD-09	1	500ml	X								X			
	DAD-10	1	500ml	X						X		X			
	~~DAD-10~~	~~1~~	~~500ml~~	X								X			
280872-1	DAD-13	1	500ml	X						X		X		10/27/11	11:26
72*	DAD-13	1	500ml	X								X		10/27/11	11:26
73-1*	DAD-14	1	500ml	X						X		X		10/27/11	09:45
73-2*	DAD-14	1	500 ml	X								X		10/27/11	09:45
74-1*	DAD-16	1	500ml	X						X		X		10/27/11	8:34
74-2*	DAD-16	1	500ml	X								X		10/27/11	8:34
75-1*	~~DAD-17~~ DAD 11	1	500ml	X						X		X		10/27/11	10:50
75-2*	~~DAD-17~~ DAD 11	1	500ml	X								X		10/27/11	10:50
	~~DAD-22~~	1	~~500ml~~	X						X		X			
	DAD-22	1	500ml	X								X			
	DAD-22	1	500ml	X						X		X			
	~~DAD-22~~	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 EPA 300	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate		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			
							X	X						
							X		X	X	X			
							X	X						
							X		X	X	X			
							X	X						
							X		X	X	X			

Relinquished By: Thorsten Meinus Date: 10/27/11 Time: 16:20
Received By: Date: 10/27/11 Time: 1620

Relinquished By: Date: 10/27/11 Time: 1625
Received at Laboratory By: Brenda Ward Trace Lubbock Date: 10/29/11 Time: 9:30

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 1.9/1.8 corrected
Log-in Review JK

Remarks: NO3, Cl, SO4 TDS done-EP.
-DAS 25 4695972
Dry Weight Basis Required
TRRP Report Required
3.7/3.9 IR (9)

TRACEANALYSIS, INC.

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

Jerry Settles
Del Oro Dairy, LLC.
1025 East O"Hara
P.O. Box 1846
Anthony, NM, 88021

Report Date: November 14, 2011

Work Order: 11103119

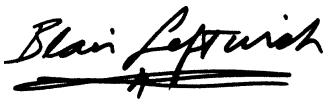
DP: 692
Project Location: 1025 East O'Hara, Anthony, NM
Project Name: Del Oro Dairy

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
281090	Tank Three Well Mix	water	2011-10-31	10:54	2011-10-31
281091	692-02	water	2011-10-31	11:15	2011-10-31
281092	692-04	water	2011-10-31	10:45	2011-10-31
281093	Lagoon	water	2011-10-31	10:30	2011-10-31

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.

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



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

Report Contents

Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2011-10-31 and assigned to work order 11103119. Samples for work order 11103119 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	73377	2011-11-02 at 07:16	86425	2011-11-02 at 07:16
Chloride (IC)	E 300.0	73380	2011-11-02 at 11:14	86427	2011-11-02 at 11:14
NO3 (IC)	E 300.0	73373	2011-11-02 at 03:32	86420	2011-11-02 at 03:32
SO4 (IC)	E 300.0	73380	2011-11-02 at 11:14	86427	2011-11-02 at 11:14
TDS	SM 2540C	73167	2011-11-04 at 13:10	86161	2011-11-04 at 13:10
TKN	E 351.3	73198	2011-11-08 at 10:59	86210	2011-11-08 at 12:00

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 11103119 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: 281090 - Tank Three Well Mix

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86427 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73380 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**184**	**184**	<2.50	mg/L	5	2.50	2.5	0.5

Sample: 281091 - 692-02

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86425 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73377 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**451**	**451**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281091 - 692-02

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86420 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73373 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**4.69**	**4.69**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281091 - 692-02

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A

QC Batch: 86161 | Date Analyzed: 2011-11-04 | Analyzed By: MD
Prep Batch: 73167 | Sample Preparation: 2011-11-04 | 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	**1720**	**1720**	<5.00	mg/L	1	5.00	5	5

Sample: 281091 - 692-02

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86210 | Date Analyzed: 2011-11-08 | Analyzed By: AH
Prep Batch: 73198 | Sample Preparation: 2011-11-08 | 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: 281092 - 692-04

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86427 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73380 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**477**	**477**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281092 - 692-04

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86420 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73373 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**22.9**	**22.9**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281092 - 692-04

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86161 | Date Analyzed: 2011-11-04 | Analyzed By: MD
Prep Batch: 73167 | Sample Preparation: 2011-11-04 | 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	**1600**	**1600**	<5.00	mg/L	1	5.00	5	5

Sample: 281092 - 692-04

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86210 | Date Analyzed: 2011-11-08 | Analyzed By: AH
Prep Batch: 73198 | Sample Preparation: 2011-11-08 | 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: 281093 - Lagoon

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86427 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73380 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**3700**	**3700**	<50.0	mg/L	100	50.0	2.5	0.5

Sample: 281093 - Lagoon

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86420 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73373 | Sample Preparation: 2011-11-02 | 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: 281093 - Lagoon

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86161 Date Analyzed: 2011-11-04 Analyzed By: MD
Prep Batch: 73167 Sample Preparation: 2011-11-04 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	**16700**	**16700**	<5.00	mg/L	1	5.00	5	5

Sample: 281093 - Lagoon

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86210 Date Analyzed: 2011-11-08 Analyzed By: AH
Prep Batch: 73198 Sample Preparation: 2011-11-08 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	**466**	**466**	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86210 | Date Analyzed: 2011-11-08 | Analyzed By: AH
Prep Batch: 73198 | QC Preparation: 2011-11-08 | 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: 86420 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73373 | QC Preparation: 2011-11-02 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86425 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73377 | QC Preparation: 2011-11-02 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86427 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73380 | QC Preparation: 2011-11-02 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86427 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73380 QC Preparation: 2011-11-02 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281084

QC Batch: 86161 Date Analyzed: 2011-11-04 Analyzed By: MD
Prep Batch: 73167 QC Preparation: 2011-11-04 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2120	2020	mg/L	1	5	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86161 | Date Analyzed: 2011-11-04 | Analyzed By: MD
Prep Batch: 73167 | QC Preparation: 2011-11-04 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	986	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	996	mg/L	1	1000	<5.00	100	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: 86210 | Date Analyzed: 2011-11-08 | Analyzed By: AH
Prep Batch: 73198 | QC Preparation: 2011-11-08 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	38.4	mg/L	1	50.0	<2.17	77	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	40.6	mg/L	1	50.0	<2.17	81	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: 86420 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73373 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.97	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.97	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: 86425 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73377 QC Preparation: 2011-11-02 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.1	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	25.1	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: 86427 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73380 QC Preparation: 2011-11-02 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.1	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	25.1	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: 86427 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73380 QC Preparation: 2011-11-02 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	24.8	mg/L	1	25.0	<0.500	99	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
Sulfate		1	24.8	mg/L	1	25.0	<0.500	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: 281300

QC Batch: 86210 Date Analyzed: 2011-11-08 Analyzed By: AH
Prep Batch: 73198 QC Preparation: 2011-11-08 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	35.6	mg/L	1	50.0	<2.17	71	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	34.2	mg/L	1	50.0	<2.17	68	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: 281086

QC Batch: 86420 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73373 QC Preparation: 2011-11-02 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	25.9	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
Nitrate-N		1	306	mg/L	55.6	278	25.9	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: 281091

QC Batch: 86425 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73377 | QC Preparation: 2011-11-02 | 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	451	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	1860	mg/L	55.6	1390	451	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: 281092

QC Batch: 86427 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73380 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1970	mg/L	55.6	1390	477	107	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	1960	mg/L	55.6	1390	477	107	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: 281092

QC Batch: 86427 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73380 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1680	mg/L	55.6	1390	275	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
Sulfate		1	1680	mg/L	55.6	1390	275	101	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: 86210 | Date Analyzed: 2011-11-08 | 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	2011-11-08

Standard (CCV-1)

QC Batch: 86210 | Date Analyzed: 2011-11-08 | 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	4.73	95	85 - 115	2011-11-08

Standard (CCV-1)

QC Batch: 86420 | Date Analyzed: 2011-11-02 | 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	4.80	96	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86420 | Date Analyzed: 2011-11-02 | 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	4.81	96	90 - 110	2011-11-02

Standard (CCV-1)

QC Batch: 86425 | Date Analyzed: 2011-11-02 | 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	24.3	97	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86425 | Date Analyzed: 2011-11-02 | 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	24.2	97	90 - 110	2011-11-02

Standard (CCV-1)

QC Batch: 86427 | Date Analyzed: 2011-11-02 | 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	24.2	97	90 - 110	2011-11-02

Standard (CCV-1)

QC Batch: 86427 | Date Analyzed: 2011-11-02 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.9	96	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86427 | Date Analyzed: 2011-11-02 | 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	24.2	97	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86427 Date Analyzed: 2011-11-02 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.9	96	90 - 110	2011-11-02

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	0.00	-

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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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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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 111031-9

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: Fax #: E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Del Oro Dairy, PO Box 1846, Anthony, TX 88021	
Project #:	Project Name: Del Oro Dairy
Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, NM	Sampler Signature: Meinus

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate	Turn Around Time	Hold
281090	~~692-01~~ Tank 3 three well mix	1	500 ml	X						X		X		10/31/11	10:54								X	X			X		
	~~692-01~~	~~1~~	~~500ml~~	~~X~~								~~X~~											~~X~~	~~X~~	~~X~~	~~X~~			
281091-1	692-02	1	500ml	X						X		X		10/31/11	11:15								X	X					
91-2	692-02	1	500ml	X								X		10/31/11	11:15								X		X	X			
92-1	692-04	1	500ml	X						X		X		10/31/11	10:45								X	X					
92-2	692-04	1	500ml	X								X		10/31/11	10:45								X		X	X			
93-1	~~692-05~~ Lagoon	1	500ml	X						X		X		10/31/11	10:30								X	X					
93-2	~~692-05~~ Lagoon	1	500ml	X								X		10/31/11	10:30								X		X	X			
	~~692-06~~	~~1~~	~~500ml~~	~~X~~						~~X~~		~~X~~											~~X~~	~~X~~					
	692-06	1	500ml	X								X											X		X	X			
	692-07	1	500ml	X						X		X											X	X					
	692-07	1	500ml	X								X											X		X	X			
	692-08	1	500ml	X						X		X											X	X					
	692-08	1	500ml	X								X											X		X	X			
	692-09	1	500ml	X						X		X											X	X					
	~~692-09~~	~~1~~	~~500ml~~	~~X~~								~~X~~											~~X~~		~~X~~	~~X~~			

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Thorsten Meinus	10/31/11	11:40		10/31/11	1140
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	10/31/11	1625	Trace Lubbock	11/1/11	8:40

Lab Use Only
Intact (Y) N
Headspace Y / N
Temp 1.1 / 3.3 °C
Log-in Review

Remarks: NO_3, Cl, TDS, SO_4.
Send I.D. 25 4697597
Dry Weight Basis Required
TRRP Report Required Carry In

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
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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: November 22, 2011

Work Order: 11110334

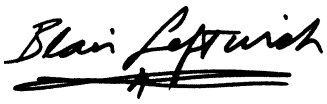
DP: 177
Project Location: 14310 Stern Dr., Mesquite, NM
Project Name: Gonzalez Dairy Inc.

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
281483	177-01	water	2011-11-03	13:18	2011-11-03
281484	177-02	water	2011-11-03	14:20	2011-11-03
281485	177-04	water	2011-11-03	14:02	2011-11-03
281486	177-05	water	2011-11-03	13:19	2011-11-03
281487	Lagoon	water	2011-11-03	14:01	2011-11-03

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.

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



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

Report Contents

Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2011-11-03 and assigned to work order 11110334. Samples for work order 11110334 were received intact at a temperature of 1 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	73568	2011-11-05 at 01:11	86646	2011-11-05 at 01:11
Chloride (IC)	E 300.0	73570	2011-11-05 at 05:24	86648	2011-11-05 at 05:24
NO3 (IC)	E 300.0	73566	2011-11-04 at 17:00	86643	2011-11-04 at 17:00
NO3 (IC)	E 300.0	73567	2011-11-04 at 21:13	86644	2011-11-04 at 21:13
TDS	SM 2540C	73353	2011-11-10 at 15:55	86395	2011-11-10 at 15:55
TDS	SM 2540C	73353	2011-11-10 at 15:55	86396	2011-11-10 at 15:55
TKN	E 351.3	73516	2011-11-18 at 10:30	86585	2011-11-18 at 12:54
TKN	E 351.3	73517	2011-11-18 at 10:31	86587	2011-11-18 at 13:18

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 11110334 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: 281483 - 177-01

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1170**	**1170**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281483 - 177-01

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**27.4**	**27.4**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281483 - 177-01

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3790**	**3790**	<5.00	mg/L	1	5.00	5	5

Sample: 281483 - 177-01

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A

QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | Sample Preparation: 2011-11-18 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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	**2.66**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281484 - 177-02

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**971**	**971**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281484 - 177-02

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**32.7**	**32.7**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281484 - 177-02

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3450**	**3450**	<5.00	mg/L	1	5.00	5	5

Sample: 281484 - 177-02

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86585	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73516	Sample Preparation:	2011-11-18	Prepared By:	AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281485 - 177-04

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86648	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73570	Sample Preparation:	2011-11-05	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1100**	**1100**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281485 - 177-04

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86643	Date Analyzed:	2011-11-04	Analyzed By:	JR
Prep Batch:	73566	Sample Preparation:	2011-11-04	Prepared By:	JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**27.5**	**27.5**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281485 - 177-04

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3500**	**3500**	<5.00	mg/L	1	5.00	5	5

Sample: 281485 - 177-04

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | Sample Preparation: 2011-11-18 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281486 - 177-05

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73570 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1190**	**1190**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281486 - 177-05

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**30.6**	**30.6**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281486 - 177-05

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3060**	**3060**	<5.00	mg/L	1	5.00	5	5

Sample: 281486 - 177-05

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | Sample Preparation: 2011-11-18 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281487 - Lagoon

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73570 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**848**	**848**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281487 - Lagoon

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86644	Date Analyzed:	2011-11-04	Analyzed By:	JR
Prep Batch:	73567	Sample Preparation:	2011-11-04	Prepared By:	JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	[1]	**2.24**	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281487 - Lagoon

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	86396	Date Analyzed:	2011-11-10	Analyzed By:	MD
Prep Batch:	73353	Sample Preparation:	2011-11-10	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]	**5730**	**5730**	<5.00	mg/L	1	5.00	5	5

Sample: 281487 - Lagoon

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86587	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73517	Sample Preparation:	2011-11-18	Prepared By:	AH

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		[2]	**177**	**177**	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | QC Preparation: 2011-11-18 | 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: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | 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: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | QC Preparation: 2011-11-04 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73570 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281485

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3200	3500	mg/L	1	9	10

Duplicate (1) Duplicated Sample: 281698

QC Batch: 86396 Date Analyzed: 2011-11-10 Analyzed By: MD
Prep Batch: 73353 QC Preparation: 2011-11-10 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2000	1980	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	990	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	989	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: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	982	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	958	mg/L	1	1000	<5.00	96	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: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<2.17	88	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	45.1	mg/L	1	50.0	<2.17	90	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: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<2.17	91	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: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.87	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.91	mg/L	1	5.00	<0.100	98	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: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | QC Preparation: 2011-11-04 | 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.	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.

Laboratory Control Spike (LCS-1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.500	99	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	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: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73570 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	26.0	mg/L	1	25.0	<0.500	104	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	26.0	mg/L	1	25.0	<0.500	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: 281486

QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.5	mg/L	1	50.0	<2.17	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	44.7	mg/L	1	50.0	<2.17	89	53.2 - 117	3	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: 281694

QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	231	mg/L	1	50.0	200	62	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	235	mg/L	1	50.0	200	70	53.2 - 117	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: 281478

QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	42.4	mg/L	5.56	27.8	13.4	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	42.4	mg/L	5.56	27.8	13.4	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: 281476

QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | QC Preparation: 2011-11-04 | 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	21.8	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
Nitrate-N		1	301	mg/L	55.6	278	21.8	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: 281479

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1900	mg/L	55.6	1390	442	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	1910	mg/L	55.6	1390	442	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: 281480

QC Batch: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73570 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3400	mg/L	111	2780	462	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	3440	mg/L	111	2780	462	107	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: 86585 | Date Analyzed: 2011-11-18 | 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	2011-11-18

Standard (CCV-1)

QC Batch: 86585 | Date Analyzed: 2011-11-18 | 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	5.07	101	85 - 115	2011-11-18

Standard (ICV-1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | 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	4.54	91	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | 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	2011-11-18

Standard (CCV-1)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-2)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | 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	4.84	97	90 - 110	2011-11-04

Standard (CCV-1)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | 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	4.84	97	90 - 110	2011-11-04

Standard (CCV-2)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86646 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86648 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86648 Date Analyzed: 2011-11-05 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	2011-11-05

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

1111033 4

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111033 4

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #:
Contact Person: Victor Ayala	Fax #:
Invoice to (if different from above): Gonzalez Dairy, PO Box 199, Mesquite, NM 88048	E-mail: vajala@dhpump.com
Project #:	Joe Gonzalez 575-233-4801
Project Location (including state): Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM	Project Name: Gonzalez Dairy Inc.
	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
281493-1	177-01	1	500 ml	X						X		X		11/3/11	13:18								X	X						
93-2	177-01	1	250 ml	X								X		11/3/11	13:18								X		X	X				
91-1	177-02	1	500 ml	X						X		X		11/3/11	14:20								X	X						
91-2	177-02	1	250 ml	X								X		11/3/11	14:20								X		X	X				
~~—~~	~~177-03~~	~~1~~		~~X~~						~~X~~		~~X~~											~~X~~	~~X~~						
~~—~~	~~177-03~~	~~1~~		~~X~~								~~X~~											~~X~~		~~X~~	~~X~~				
281495-1	177-04	1	500 ml	X						X		X		11/3/11	14:02								X	X						
95-2	177-04	1	250 ml	X								X		11/3/11	14:02								X		X	X				
96-1	177-05	1	500 ml	X						X		X		11/3/11	13:19								X	X						
96-2	177-05	1	250 ml	X								X		11/3/11	13:19								X		X	X				
~~—~~	~~177-06~~	~~1~~		~~X~~						~~X~~		~~X~~											~~X~~	~~X~~						
	177-06	1		~~X~~								X											X		X	X				
	177-07	1		X						X		X											X	X						
~~—~~	~~177-07~~	~~1~~		~~X~~								~~X~~											~~X~~		~~X~~	~~X~~				
281497-1	Lagoon	1	500 ml	X						X		X		11/3/11	14:01								X	X						
281497-2	Lagoon	1	250 ml	X								X		11/3/11	14:01								X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Thorsten Meinus	11/3/11	15:15		11/3/11	1515
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
			Vicki Hensley	11-3-11	10:30

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 1.1 Corrected
Log-in Review

Remarks: NO3, Cl, TDS done in EB.
Analize presserved only if unpresserved is unattainable
IR 2 2.1 °
LS 46975967
Dry Weight Basis Required
TRRP Report Required LS-46975967

TRACEANALYSIS, INC.

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

Bruce Bonestroo
River Valley Dairy, LLC
1400 La Chuga Rd., Mesquite
P.O. Box 1929
Anthony, NM, 88021

Report Date: November 22, 2011

Work Order: 11110239

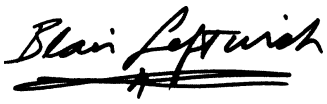
DP: NA
Project Location: 1400 La Chuga Rd., Mesquite, NM
Project Name: River Valley Dairy, LLC

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
281344	167-01A	water	2011-11-02	13:04	2011-11-02
281345	167-02	water	2011-11-02	13:20	2011-11-02
281346	167-03	water	2011-11-02	10:01	2011-11-02
281347	167-05	water	2011-11-02	14:40	2011-11-02
281348	167-06	water	2011-11-02	09:43	2011-11-02
281349	167-07	water	2011-11-02	10:55	2011-11-02
281350	167-08	water	2011-11-02	15:00	2011-11-02
281351	Lagoon-167	water	2011-11-02	12:55	2011-11-02
281352	LRG 524-S-2	water	2011-11-02	13:47	2011-11-02

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.

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



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

Report Contents

Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2011-11-02 and assigned to work order 11110239. Samples for work order 11110239 were received intact at a temperature of 11.1 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	73498	2011-11-03 at 22:23	86554	2011-11-03 at 22:23
Chloride (IC)	E 300.0	73500	2011-11-04 at 02:36	86558	2011-11-04 at 02:36
NO3 (IC)	E 300.0	73497	2011-11-03 at 18:25	86551	2011-11-03 at 18:25
SO4 (IC)	E 300.0	73578	2011-11-10 at 04:04	86656	2011-11-10 at 04:04
TDS	SM 2540C	73275	2011-11-08 at 17:41	86304	2011-11-08 at 17:41
TDS	SM 2540C	73279	2011-11-09 at 14:20	86309	2011-11-09 at 14:20
TKN	E 351.3	73479	2011-11-17 at 11:37	86532	2011-11-17 at 12:14
TKN	E 351.3	73481	2011-11-17 at 11:42	86531	2011-11-17 at 12:10

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 11110239 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: 281344 - 167-01A

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1080**	**1080**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281344 - 167-01A

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**11.2**	**11.2**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281344 - 167-01A

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**3620**	**3620**	<5.00	mg/L	1	5.00	5	5

Sample: 281344 - 167-01A

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A

QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

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	**4.62**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281345 - 167-02

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**432**	**432**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281345 - 167-02

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

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: 281345 - 167-02

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**650**	**650**	<5.00	mg/L	1	5.00	5	5

Sample: 281345 - 167-02

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86532	Date Analyzed:	2011-11-17	Analyzed By:	AH
Prep Batch:	73479	Sample Preparation:	2011-11-17	Prepared By:	AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

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	**3.64**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281346 - 167-03

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86554	Date Analyzed:	2011-11-03	Analyzed By:	JR
Prep Batch:	73498	Sample Preparation:	2011-11-03	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**564**	**564**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281346 - 167-03

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86551	Date Analyzed:	2011-11-03	Analyzed By:	JR
Prep Batch:	73497	Sample Preparation:	2011-11-03	Prepared By:	JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**22.0**	**22.0**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281346 - 167-03

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**2150**	**2150**	<5.00	mg/L	1	5.00	5	5

Sample: 281346 - 167-03

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

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: 281347 - 167-05

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**782**	**782**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281347 - 167-05

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**3.89**	**3.89**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281347 - 167-05

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**2560**	**2560**	<5.00	mg/L	1	5.00	5	5

Sample: 281347 - 167-05

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

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	**3.64**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281348 - 167-06

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86558 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73500 | Sample Preparation: 2011-11-04 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**716**	**716**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281348 - 167-06

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**35.7**	**35.7**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281348 - 167-06

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**3390**	**3390**	<5.00	mg/L	1	5.00	5	5

Sample: 281348 - 167-06

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

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: 281349 - 167-07

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86558 | Date Analyzed: 2011-11-04 | Analyzed By: JR

Prep Batch: 73500 Sample Preparation: 2011-11-04 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**366**	**366**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281349 - 167-07

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86551 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73497 Sample Preparation: 2011-11-03 Prepared By: JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

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: 281349 - 167-07

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86304 Date Analyzed: 2011-11-08 Analyzed By: MD
Prep Batch: 73275 Sample Preparation: 2011-11-08 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	**2460**	**2460**	<5.00	mg/L	1	5.00	5	5

Sample: 281349 - 167-07

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86531 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73481 Sample Preparation: 2011-11-17 Prepared By: AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

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: 281350 - 167-08

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86558 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73500 | Sample Preparation: 2011-11-04 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**759**	**759**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281350 - 167-08

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	**1.93**	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281350 - 167-08

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86309 | Date Analyzed: 2011-11-09 | Analyzed By: MD
Prep Batch: 73279 | Sample Preparation: 2011-11-09 | 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	**2520**	**2520**	<5.00	mg/L	1	5.00	5	5

Sample: 281350 - 167-08

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86531 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73481 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

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: 281351 - Lagoon-167

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86558 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73500 | Sample Preparation: 2011-11-04 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**477**	**477**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281351 - Lagoon-167

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved sample only if unpreserved is unattainable.

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: 281351 - Lagoon-167

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86309 | Date Analyzed: 2011-11-09 | Analyzed By: MD
Prep Batch: 73279 | Sample Preparation: 2011-11-09 | 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	**2260**	**2260**	<5.00	mg/L	1	5.00	5	5

Sample: 281351 - Lagoon-167

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86531	Date Analyzed:	2011-11-17	Analyzed By:	AH
Prep Batch:	73481	Sample Preparation:	2011-11-17	Prepared By:	AH

Comment: Analyze preserved sample only if unpreserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	**77.7**	**77.7**	<2.17	mg/L	1	2.17	10	2.17

Sample: 281352 - LRG 524-S-2

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86656	Date Analyzed:	2011-11-10	Analyzed By:	JR
Prep Batch:	73578	Sample Preparation:	2011-11-10	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**192**	**192**	<5.00	mg/L	10	5.00	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86309 | Date Analyzed: 2011-11-09 | Analyzed By: MD
Prep Batch: 73279 | QC Preparation: 2011-11-09 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86531 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73481 | QC Preparation: 2011-11-17 | 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: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | QC Preparation: 2011-11-17 | 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: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | QC Preparation: 2011-11-03 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86554 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73498 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86558 Date Analyzed: 2011-11-04 Analyzed By: JR
Prep Batch: 73500 QC Preparation: 2011-11-04 Prepared By: JR

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

Method Blank (1)

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73578 QC Preparation: 2011-11-10 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281349

QC Batch: 86304 Date Analyzed: 2011-11-08 Analyzed By: MD
Prep Batch: 73275 QC Preparation: 2011-11-08 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2700	2460	mg/L	1	9	10

Duplicate (1) Duplicated Sample: 281922

QC Batch: 86309 Date Analyzed: 2011-11-09 Analyzed By: MD
Prep Batch: 73279 QC Preparation: 2011-11-09 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2920	2860	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		[1]	922	mg/L	1	1000	<5.00	92	90 - 110	8	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: 86309 | Date Analyzed: 2011-11-09 | Analyzed By: MD
Prep Batch: 73279 | QC Preparation: 2011-11-09 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		[1]	926	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]	972	mg/L	1	1000	<5.00	97	90 - 110	5	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: 86531 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73481 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	LCS 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	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	51.8	mg/L	1	50.0	<2.17	104	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: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	51.1	mg/L	1	50.0	<2.17	102	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	51.8	mg/L	1	50.0	<2.17	104	68.6 - 108	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: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.75	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.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.77	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.

Laboratory Control Spike (LCS-1)

QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.0	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	24.0	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: 86558 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73500 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.2	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73578 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	24.0	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
Sulfate		1	24.0	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.

Matrix Spike (MS-1) Spiked Sample: 281351

QC Batch: 86531 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73481 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	110	mg/L	1	50.0	77.7	65	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	111	mg/L	1	50.0	77.7	67	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: 281348

QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.9	mg/L	1	50.0	<2.17	90	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	45.5	mg/L	1	50.0	<2.17	91	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: 281345

QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	26.1	mg/L	5.56	27.8	<0.556	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	26.1	mg/L	5.56	27.8	<0.556	94	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: 281345

QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | QC Preparation: 2011-11-03 | 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	432	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	1850	mg/L	55.6	1390	432	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: 281349

QC Batch: 86558 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73500 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1780	mg/L	55.6	1390	366	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	1790	mg/L	55.6	1390	366	102	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: 281277

QC Batch: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73578 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1540	mg/L	55.6	1390	185	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
Sulfate		1	1540	mg/L	55.6	1390	185	97	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: 86531 | Date Analyzed: 2011-11-17 | 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	4.54	91	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86531 | Date Analyzed: 2011-11-17 | 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	4.76	95	85 - 115	2011-11-17

Standard (ICV-1)

QC Batch: 86532 | Date Analyzed: 2011-11-17 | 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	4.90	98	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86532 | Date Analyzed: 2011-11-17 | 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	2011-11-17

Standard (CCV-1)

QC Batch: 86551 | Date Analyzed: 2011-11-03 | 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	4.73	95	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86551 | Date Analyzed: 2011-11-03 | 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	4.72	94	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86554 | Date Analyzed: 2011-11-03 | 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	23.8	95	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86554 | Date Analyzed: 2011-11-03 | 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	23.8	95	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86558 | Date Analyzed: 2011-11-04 | 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	23.8	95	90 - 110	2011-11-04

Standard (CCV-2)

QC Batch: 86558 Date Analyzed: 2011-11-04 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	23.9	96	90 - 110	2011-11-04

Standard (CCV-1)

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-11-10

Standard (CCV-2)

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-11-10

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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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TraceAnalysis, Inc.

155 McCutcheon, Ste. H El Paso, TX 79932
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0239

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: / Fax #: / E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): River Valley Dairy, PO Box 1929, Anthony, NM 88021	Bruce Bonestroo 575-233-2061
Project #:	Project Name: River Valley Dairy, LLC
Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
	~~167-01~~	1		X						X		X											X	X						
	~~167-01~~	1		X								X											X		X	X				
281344	~~167-01A~~	1	250mL	X						X		X		11/2/11	13:04								X	X						
281344	167-01A	1	500mL	X								X		11/2/11	13:04								X		X	X				
45	167-02	1	500mL	X						X		X		11/2/11	13:20								X	X						
↓	167-02	1	250mL	X								X		11/2/11	13:20								X		X	X				
46	167-03	1	500mL	X						X		X		11/2/11	10:01								X	X						
↓	167-03	1	250mL	X								X		11/2/11	10:01								X		X	X				
47	167-05 SA	1	~~250~~ 500	X						X		X		11/2/11	14:40								X	X						
↓	167-05 11-2-11	1	~~250~~ 500	X								X		11/2/11	14:40								X		X	X				
48	167-06	1	250mL	X						X		X		11/2/11	9:43								X	X						
↓	167-06	1	500mL	X								X		11/2/11	9:43								X		X	X				
49	167-07	1	250mL	X						X		X		11/2/11	10:55								X	X						
↓	167-07	1	500mL	X								X		11/2/11	10:55								X		X	X				
50	167-08	1	250mL	X						X		X		11/2/11	15:00								X	X						
↓	167-08	1	500mL	X								X		11/2/11	15:00								X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
~~Thersten Meinus~~	11-2-11	15:47		11/2/11	1543
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/2/11	1615			

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1.1 corrected
Log-in Review

Remarks: Carry Ex
Analize presserved only if unpresserved is unattainable
ERR
☐ Dry Weight Basis Required
☐ TRRP Report Required

11-2-11

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0239

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Fax #:
E-mail: vajala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): River Valley Dairy, PO Box 1929, Anthony, NM 88021 Bruce Bonestroo 575-233-2061
Project #:
Project Name: River Valley Dairy, LLC
Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM
Sampler Signature: Angel N Rivera

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~167-09~~	1		X						X		X			
	~~167-09~~	1		X								X			
281351	Lagoon-167	1	500mL	X						X		X		11/2/11	12:55
↓	Lagoon-167	1	250mL	X								X		11/2/11	12:55
281352	LRG 524-S-2	1	125mL	X								X		11/2/11	13:47

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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate	Turn Around Time	Hold
~~167-09~~								X	X					
~~167-09~~								X		X	X			
Lagoon-167								X	X					
Lagoon-167								X		X	X			
LRG 524-S-2												X		

Relinquished By: Angel N Rivera / Thoreten Meinus Date: 11-2-11 Time: 15:43
Received By: Date: 11/2/11 Time: 1543
Relinquished By: Date: 11/2/11 Time: 1625
Received at Laboratory By: Date: Time:

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1.1 Corrected
Log-in Review 11-2-11

Remarks: Carry F—
Analize presserved only if unpresserved is unattainable
-IR2
☐ Dry Weight Basis Required
☐ TRRP Report Required

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

1110239

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1110239

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: Fax #: E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): River Valley Dairy, PO Box 1929, Anthony, NM 88021	Bruce Bonestroo 575-233-2061
Project #:	Project Name: River Valley Dairy, LLC
Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
	~~167-01~~	1		X						X		X											X	X						
	~~167-01~~	1		X								X											X		X	X				
281344	~~167-01A~~	1	250mL	X						X		X		11/2/11	13:04								X	X						
281344	167-01A	1	500mL	X								X		11/2/11	13:04								X		X	X				
45	167-02	1	500mL	X						X		X		11/2/11	13:20								X	X						
↓	167-02	1	250mL	X								X		11/2/11	13:20								X		X	X				
46	167-03	1	500mL	X						X		X		11/2/11	10:01								X	X						
↓	167-03	1	250mL	X								X		11/2/11	10:01								X		X	X				
47	167-05 SR	1	250 500	X						X		X		11/2/11	14:40								X	X						
↓	167-05 11-2-11	1	~~250~~ ~~500~~	X								X		11/2/11	14:40								X		X	X				
48	167-06	1	250mL	X						X		X		11/2/11	9:43								X	X						
↓	167-06	1	500mL	X								X		11/2/11	9:43								X		X	X				
49	167-07	1	250mL	X						X		X		11/2/11	10:55								X	X						
↓	167-07	1	500mL	X								X		11/2/11	10:55								X		X	X				
50	167-08	1	250mL	X						X		X		11/2/11	15:00								X	X						
↓	167-08	1	500mL	X								X		11/2/11	15:00								X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
~~Thorsten Meimes~~	11-2-11	15:47		11/2/11	1547
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/2/11	1615		11/3/11	9:08

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1.1 corrected
Log-in Review

Remarks:
Analize presserved only if unpresserved is unattainable
Dry Weight Basis Required
TRRP Report Required

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
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TraceAnalysis, Inc.

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Tel (915) 585-3443
Fax (915) 585-4944

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0239

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Fax #:
E-mail: vajala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): River Valley Dairy, PO Box 1929, Anthony, NM 88021
Bruce Bonestroo 575-233-2061
Project #:
Project Name: River Valley Dairy, LLC
Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM
Sampler Signature: Angel M Reyes

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~167-09~~	1		X						X		X			
	~~167-09~~	1		X								X			
281351	Lagoon-167	1	500mL	X						X		X		11/2/11	12:55
↓	Lagoon-167	1	250mL	X								X		11/2/11	12:55
281352	LRG 524-S-2	1	125mL	X								X		11/2/11	13:47

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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate	Turn Around Time	Hold
							X	X					
							X		X	X			
							X	X					
							X		X	X			
											X		

ANALYSIS REQUEST

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Angel M Reyes / Thorsten Meinus	11-2-11	16:43		11/2/11	1543
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/2/11	1625	TA	11/3/11	9:00

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1.1 Corrected
Log-in Review

Remarks:
Cool 2-
Analize presserved only if unpresserved is unattainable
-DE2
☐ Dry Weight Basis Required
☐ TRRP Report Required

(3)

TRACEANALYSIS, INC.

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

George Segura
Big Sky Dairy
17800 Stern Drive
P.O. Box 10
Mesquite, NM, 88048

Report Date: November 22, 2011

Work Order: 11110238

DP: 833
Project Location: 17800 Stern Drive, Mesquite, NM
Project Name: 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
281343	833-6	water	2011-11-02	08:29	2011-11-02

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 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

Report Contents

Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2011-11-02 and assigned to work order 11110238. Samples for work order 11110238 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	73498	2011-11-03 at 22:23	86554	2011-11-03 at 22:23
NO3 (IC)	E 300.0	73497	2011-11-03 at 18:25	86551	2011-11-03 at 18:25
TDS	SM 2540C	73275	2011-11-08 at 17:41	86304	2011-11-08 at 17:41
TKN	E 351.3	73479	2011-11-17 at 11:37	86532	2011-11-17 at 12:14

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 11110238 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: 281343 - 833-6

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**688**	**688**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281343 - 833-6

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**28.8**	**28.8**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281343 - 833-6

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**1900**	**1900**	<5.00	mg/L	1	5.00	5	5

Sample: 281343 - 833-6

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A

QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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	**3.08**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | QC Preparation: 2011-11-17 | 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: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | QC Preparation: 2011-11-03 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | QC Preparation: 2011-11-03 | Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281349

QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2700	2460	mg/L	1	9	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	922	mg/L	1	1000	<5.00	92	90 - 110	8	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: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	51.1	mg/L	1	50.0	<2.17	102	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	51.8	mg/L	1	50.0	<2.17	104	68.6 - 108	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: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.75	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.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.77	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.

Laboratory Control Spike (LCS-1)

QC Batch: 86554 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73498 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.0	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	24.0	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.

Matrix Spike (MS-1) Spiked Sample: 281348

QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.9	mg/L	1	50.0	<2.17	90	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	45.5	mg/L	1	50.0	<2.17	91	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: 281345

QC Batch: 86551 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73497 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	26.1	mg/L	5.56	27.8	<0.556	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	26.1	mg/L	5.56	27.8	<0.556	94	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: 281345

QC Batch: 86554 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73498 QC Preparation: 2011-11-03 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	432	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	1850	mg/L	55.6	1390	432	102	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: 86532 | Date Analyzed: 2011-11-17 | 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	4.90	98	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86532 | Date Analyzed: 2011-11-17 | 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	2011-11-17

Standard (CCV-1)

QC Batch: 86551 | Date Analyzed: 2011-11-03 | 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	4.73	95	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86551 | Date Analyzed: 2011-11-03 | 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	4.72	94	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86554 | Date Analyzed: 2011-11-03 | 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	23.8	95	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86554 | Date Analyzed: 2011-11-03 | 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	23.8	95	90 - 110	2011-11-03

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

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 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 11110238

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Cell #: Fax #: E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048	George Segura 575-233-3620
Project #:	Project Name: Big Sky Dairy
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM	Sampler Signature: Amd Nick Ru

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~833-1~~	~~1~~		X						X		X			
	833-1	1		X								X			
	833-2	1		X						X		X			
	833-2	1		X								X			
	833-3	1		X						X		X			
	833-3	1		X								X			
	833-4	1		X						X		X			
	833-4	1		X								X			
	833-5	1		X						X		X			
	~~833-5~~	~~1~~		X								X			
281343-1	~~833-6~~	1	250mL	X						X		X		11/2/11	08:29
-2	833-6	1	500mL	X								X		11/2/11	08:29
	~~833-7~~	~~1~~		X						X		X			
	833-7	1		X								X			
	~~833-8~~	~~1~~		X						X		X			
	833-8	1		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 EPA 300	Total Kjeldhal 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	X				
							X	X						
							X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Amd Nick Ru	11-2-11	15:47		11/2/11	1543
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/2/11	1625			

Lab Use Only
Intact (Y) N
Headspace Y / N
Temp 1.1 corrected ~ 2°C
Log-in Review JS

Remarks:
Analize presserved only if unpresserved is unattainable
Cl - 7 Fa

☐ Dry Weight Basis Required
☐ TRRP Report Required

(2)

11110238

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
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TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 11110238

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
Fax #:
E-mail: vayala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048
George Segura 575-233-3620
Project #:
Project Name: Big Sky Dairy
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~833-1~~	1		X						X		X			
	833-1	1		X								X			
	833-2	1		X						X		X			
	833-2	1		X								X			
	833-3	1		X						X		X			
	833-3	1		X								X			
	833-4	1		X						X		X			
	833-4	1		X								X			
	833-5	1		X						X		X			
	~~833-5~~	1		X								X			
281343-1	~~833-6~~	1	250mL	X						X		X		11/2/11	08:29
-2	833-6	1	500mL	X								X		11/2/11	08:29
	~~833-7~~	1		X						X		X			
	833-7	1		X								X			
	~~833-8~~	1		X						X		X			
	833-8	1		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 EPA 300	Total Kjeldhal 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	X				
							X	X						
							X		X	X				
							X	X						
							X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	11-2-11	15:47		11/2/11	1543
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/2/11	1625		11/3/11	9:00

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 1.1 °C
Log-in Review JS

Remarks:
Analize presserved only if unpresserved is unattainable

Dry Weight Basis Required
TRRP Report Required

TRACEANALYSIS, INC.

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

Bruce Bonestroo
River Valley Dairy, LLC
1400 La Chuga Rd., Mesquite
P.O. Box 1929
Anthony, NM, 88021

Report Date: November 22, 2011

Work Order: 11110333

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
281482	167-09	water	2011-11-03	08:34	2011-11-03

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 11 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

Report Contents

Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2011-11-03 and assigned to work order 11110333. Samples for work order 11110333 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	73568	2011-11-05 at 01:11	86646	2011-11-05 at 01:11
NO3 (IC)	E 300.0	73566	2011-11-04 at 17:00	86643	2011-11-04 at 17:00
TDS	SM 2540C	73353	2011-11-10 at 15:55	86395	2011-11-10 at 15:55

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 11110333 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: 281482 - 167-09

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**988**	**988**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281482 - 167-09

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**7.53**	**7.53**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281482 - 167-09

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3590**	**3590**	<5.00	mg/L	1	5.00	5	5

Method Blanks

Method Blank (1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281485

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3200	3500	mg/L	1	9	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	990	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	989	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: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.87	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.91	mg/L	1	5.00	<0.100	98	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: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.500	99	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	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.

Matrix Spike (MS-1) Spiked Sample: 281478

QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	42.4	mg/L	5.56	27.8	13.4	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	42.4	mg/L	5.56	27.8	13.4	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: 281479

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1900	mg/L	55.6	1390	442	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	1910	mg/L	55.6	1390	442	106	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: 86643 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-2)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | 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	4.84	97	90 - 110	2011-11-04

Standard (CCV-1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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

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 then 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.

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
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11110333

TraceAnalysis, Inc.

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

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 11110333

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #:
Contact Person: Victor Ayala	Fax #:
Invoice to (if different from above): River Valley Dairy, PO Box 1929, Anthony, NM 88021	E-mail: vajala@dhpump.com
Project #:	Bruce Bonestroo 575-233-2061
Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM	Project Name: River Valley Dairy, LLC
	Sampler Signature:

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
28142-1	167-01	1	250mL	X						X		X		11/3/11	5:34								X	X						
28142-2	167-01	1	500mL	X								X		11/3/11	5:34								X		X	X				
	167-01A	1		X						X		X											X	X						
	167-01A	1		X								X											X		X	X				
	167-02	1		X						X		X											X	X						
	167-02	1		X								X											X		X	X				
	167-03	1		X						X		X											X	X						
	167-03	1		X								X											X		X	X				
	167-05	1		X						X		X											X	X						
	167-05	1		X								X											X		X	X				
	167-06	1		X						X		X											X	X						
	167-06	1		X								X											X		X	X				
	167-07	1		X						X		X											X	X						
	167-07	1		X								X											X		X	X				
	167-08	1		X						X		X											X	X						
	167-08	1		X								X											X		X	X				

Relinquished By: Thorsten Meinus	Date: 11/3/11	Time: 15:15
Relinquished By:	Date: 11/5/11	Time: 1625
Received By:	Date: 11/7/11	Time: 1515
Received at Laboratory By:	Date: 11-5-11	Time: 10:30

Lab Use Only
Intact (Y) N
Headspace Y / N
Temp 1.1 °C
Log-in Review JH

Remarks: NO3, Cl, TDS dominEP
Analize presserved only if unpresserved is unattainable
2.1 4697596?
Dry Weight Basis Required
TRRP Report Required ~~LS 4697596~~

TRACEANALYSIS, INC.

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: November 22, 2011

Work Order: 11110332

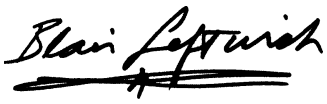
DP: 74
Project Location: 16910 Stern Drive, Mesquite, NM
Project Name: Buena Vista Dairy #2

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
281475	74-1	water	2011-11-03	10:44	2011-11-03
281476	74-2	water	2011-11-03	10:59	2011-11-03
281477	74-3	water	2011-11-03	11:19	2011-11-03
281478	74-4	water	2011-11-03	09:24	2011-11-03
281479	74-5	water	2011-11-03	10:02	2011-11-03
281480	74-Lagoon	water	2011-11-03	09:40	2011-11-03
281481	Buena Vista 2 LRh 01876	water	2011-11-03	10:19	2011-11-03

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.

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



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

Report Contents

Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2011-11-03 and assigned to work order 11110332. Samples for work order 11110332 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	73567	2011-11-04 at 21:13	86644	2011-11-04 at 21:13
Chloride (IC)	E 300.0	73568	2011-11-05 at 01:11	86646	2011-11-05 at 01:11
Chloride (IC)	E 300.0	73570	2011-11-05 at 05:24	86648	2011-11-05 at 05:24
NO3 (IC)	E 300.0	73566	2011-11-04 at 17:00	86643	2011-11-04 at 17:00
NO3 (IC)	E 300.0	73567	2011-11-04 at 21:13	86644	2011-11-04 at 21:13
SO4 (IC)	E 300.0	73575	2011-11-06 at 05:05	86653	2011-11-06 at 05:05
TDS	SM 2540C	73353	2011-11-10 at 15:55	86395	2011-11-10 at 15:55
TKN	E 351.3	73516	2011-11-18 at 10:30	86585	2011-11-18 at 12:54

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 11110332 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: 281475 - 74-1

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | Sample Preparation: 2011-11-04 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**811**	**811**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281475 - 74-1

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**64.6**	**64.6**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281475 - 74-1

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**2830**	**2830**	<5.00	mg/L	1	5.00	5	5

Sample: 281475 - 74-1

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A

QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | Sample Preparation: 2011-11-18 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281476 - 74-2

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | Sample Preparation: 2011-11-04 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**558**	**558**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281476 - 74-2

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**26.3**	**26.3**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281476 - 74-2

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**2510**	**2510**	<5.00	mg/L	1	5.00	5	5

Sample: 281476 - 74-2

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86585	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73516	Sample Preparation:	2011-11-18	Prepared By:	AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281477 - 74-3

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86644	Date Analyzed:	2011-11-04	Analyzed By:	JR
Prep Batch:	73567	Sample Preparation:	2011-11-04	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1420**	**1420**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281477 - 74-3

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86643	Date Analyzed:	2011-11-04	Analyzed By:	JR
Prep Batch:	73566	Sample Preparation:	2011-11-04	Prepared By:	JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**27.6**	**27.6**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281477 - 74-3

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	86395	Date Analyzed:	2011-11-10	Analyzed By:	MD
Prep Batch:	73353	Sample Preparation:	2011-11-10	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	**4730**	**4730**	<5.00	mg/L	1	5.00	5	5

Sample: 281477 - 74-3

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86585	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73516	Sample Preparation:	2011-11-18	Prepared By:	AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281478 - 74-4

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86646	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73568	Sample Preparation:	2011-11-05	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**439**	**439**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281478 - 74-4

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86643	Date Analyzed:	2011-11-04	Analyzed By:	JR
Prep Batch:	73566	Sample Preparation:	2011-11-04	Prepared By:	JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**13.4**	**13.4**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281478 - 74-4

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**1080**	**1080**	<5.00	mg/L	1	5.00	5	5

Sample: 281478 - 74-4

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | Sample Preparation: 2011-11-18 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281479 - 74-5

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**442**	**442**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281479 - 74-5

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**17.9**	**17.9**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281479 - 74-5

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**960**	**960**	<5.00	mg/L	1	5.00	5	5

Sample: 281479 - 74-5

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | Sample Preparation: 2011-11-18 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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: 281480 - 74-Lagoon

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR

Prep Batch: 73570 Sample Preparation: 2011-11-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**462**	**462**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281480 - 74-Lagoon

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86643 Date Analyzed: 2011-11-04 Analyzed By: JR
Prep Batch: 73566 Sample Preparation: 2011-11-04 Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

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: 281480 - 74-Lagoon

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86395 Date Analyzed: 2011-11-10 Analyzed By: MD
Prep Batch: 73353 Sample Preparation: 2011-11-10 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	**2550**	**2550**	<5.00	mg/L	1	5.00	5	5

Sample: 281480 - 74-Lagoon

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86585 Date Analyzed: 2011-11-18 Analyzed By: AH
Prep Batch: 73516 Sample Preparation: 2011-11-18 Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	**167**	**167**	<2.17	mg/L	1	2.17	10	2.17

Sample: 281481 - Buena Vista 2 LRh 01876

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86653	Date Analyzed:	2011-11-06	Analyzed By:	JR
Prep Batch:	73575	Sample Preparation:	2011-11-06	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**185**	**185**	<5.00	mg/L	10	5.00	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | QC Preparation: 2011-11-18 | 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: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | QC Preparation: 2011-11-04 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86644 Date Analyzed: 2011-11-04 Analyzed By: JR
Prep Batch: 73567 QC Preparation: 2011-11-04 Prepared By: JR

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

Method Blank (1)

QC Batch: 86646 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73568 QC Preparation: 2011-11-05 Prepared By: JR

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

Method Blank (1)

QC Batch: 86648 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73570 QC Preparation: 2011-11-05 Prepared By: JR

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

Method Blank (1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281485

QC Batch:	86395	Date Analyzed:	2011-11-10	Analyzed By:	MD
Prep Batch:	73353	QC Preparation:	2011-11-10	Prepared By:	MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3200	3500	mg/L	1	9	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	990	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	989	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: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<2.17	88	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	45.1	mg/L	1	50.0	<2.17	90	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: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.87	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.91	mg/L	1	5.00	<0.100	98	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: 86644 Date Analyzed: 2011-11-04 Analyzed By: JR
Prep Batch: 73567 QC Preparation: 2011-11-04 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.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.7	mg/L	1	25.0	<0.500	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: 86644 Date Analyzed: 2011-11-04 Analyzed By: JR
Prep Batch: 73567 QC Preparation: 2011-11-04 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.	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.

Laboratory Control Spike (LCS-1)

QC Batch: 86646 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73568 QC Preparation: 2011-11-05 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.500	99	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	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: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73570 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	26.0	mg/L	1	25.0	<0.500	104	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	26.0	mg/L	1	25.0	<0.500	104	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: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	23.8	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.	Rec. Limit	RPD	RPD Limit
Sulfate		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.

Matrix Spike (MS-1) Spiked Sample: 281486

QC Batch: 86585 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73516 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.5	mg/L	1	50.0	<2.17	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	44.7	mg/L	1	50.0	<2.17	89	53.2 - 117	3	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: 281478

QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	42.4	mg/L	5.56	27.8	13.4	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	42.4	mg/L	5.56	27.8	13.4	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: 281476

QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2040	mg/L	55.6	1390	558	107	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	2030	mg/L	55.6	1390	558	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: 281476

QC Batch: 86644 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73567 | QC Preparation: 2011-11-04 | 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	21.8	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
Nitrate-N		1	301	mg/L	55.6	278	21.8	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: 281479

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1900	mg/L	55.6	1390	442	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	1910	mg/L	55.6	1390	442	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: 281480

QC Batch: 86648 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73570 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3400	mg/L	111	2780	462	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	3440	mg/L	111	2780	462	107	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: 281481

QC Batch:	86653	Date Analyzed:	2011-11-06	Analyzed By:	JR
Prep Batch:	73575	QC Preparation:	2011-11-06	Prepared By:	JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1580	mg/L	55.6	1390	185	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
Sulfate		1	1580	mg/L	55.6	1390	185	100	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: 86585 | Date Analyzed: 2011-11-18 | 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	2011-11-18

Standard (CCV-1)

QC Batch: 86585 | Date Analyzed: 2011-11-18 | 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	5.07	101	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-2)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | 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	4.84	97	90 - 110	2011-11-04

Standard (CCV-1)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-1)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | 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	4.84	97	90 - 110	2011-11-04

Standard (CCV-2)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-2)

QC Batch: 86644 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86646 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86648 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86648 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-11-06

Standard (CCV-2)

QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.1	96	90 - 110	2011-11-06

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

111110332

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Lubbock, TX 79424
Tel (806) 794-1296
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TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 111110332

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Cell #: Fax #: E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048	Fernie 575-233-4646
Project #:	Project Name: Buena Vista Dairy #2
Project Location (including state): Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	Total Kjeldhal Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	S. Clark		Turn Around Time	Hold
281975-1	74-1	1	500mL	X						X		X		11/3/11	10:44								X	X						
75-2	74-1	1	250mL	X								X		11/3/11	10:44								X		X	X				
76-1	74-2	1	500mL	X						X		X		11/3/11	10:59								X	X						
76-2	74-2	1	250mL	X								X		11/3/11	10:59								X		X	X				
77-1	74-3	1	500mL	X						X		X		11/3/11	11:19								X	X						
77-2	74-3	1	250mL	X								X		11/3/11	11:19								X		X	X				
78-1	74-4	1	500mL	X						X		X		11/3/11	9:24								X	X						
78-2	74-4	1	250mL	X								X		11/3/11	9:24								X		X	X				
79-1	74-5	1	500mL	X						X		X		11/3/11	10:02								X	X						
79-2	74-5	1	250mL	X								X		11/3/11	10:02								X		X	X				
80-1	74 Lagoon	1	500mL	X						X		X		11/3/11	9:40								X	X						
80-2	74 Lagoon	1	250mL	X								X		11/3/11	9:40								X		X	X				
281981-1	Buena Vista II LRK 01876	1	125mL	X								X		11/3/11	10:19												X			

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	11/3/11	15:15		11/3/11	1515
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/3/11	1625		11-4-11	10:30

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 1.1 °C
Log-in Review

Remarks: carry Fm SO_4, NO_3, Cl, + TDS down in EPA 300
Analize presserved only if unpresserved is unattainable
-Pre 2 2.1°
46975947
Dry Weight Basis Required
TRRP Report Required
LS-46975947

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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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

George Segura
Big Sky Dairy
17800 Stern Drive
P.O. Box 10
Mesquite, NM, 88048

Report Date: November 22, 2011

Work Order: 11110218

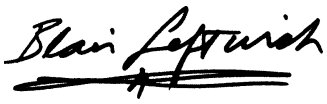
DP: 833
Project Location: 17800 Stern Drive, Mesquite, NM
Project Name: Big Sky Dairy

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
281279	833-2	water	2011-11-01	15:30	2011-11-01
281280	833-4	water	2011-11-01	16:05	2011-11-01
281281	833-5	water	2011-11-01	11:07	2011-11-01
281282	833-7	water	2011-11-01	09:37	2011-11-01
281283	833-8	water	2011-11-01	14:41	2011-11-01
281284	833-9	water	2011-11-01	14:01	2011-11-01
281285	833-10	water	2011-11-01	11:18	2011-11-01
281286	Lagoon	water	2011-11-01	09:18	2011-11-01
281287	Big Sky LRG 4116	water	2011-11-01	10:58	2011-11-01

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.

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



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

Report Contents

Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2011-11-01 and assigned to work order 11110218. Samples for work order 11110218 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	73483	2011-11-03 at 02:45	86530	2011-11-03 at 02:45
Chloride (IC)	E 300.0	73484	2011-11-03 at 07:28	86534	2011-11-03 at 07:28
Chloride (IC)	E 300.0	73494	2011-11-03 at 11:11	86547	2011-11-03 at 11:11
NO3 (IC)	E 300.0	73467	2011-11-02 at 18:34	86521	2011-11-02 at 18:34
NO3 (IC)	E 300.0	73482	2011-11-02 at 22:32	86529	2011-11-02 at 22:32
NO3 (IC)	E 300.0	73483	2011-11-03 at 02:45	86530	2011-11-03 at 02:45
NO3 (IC)	E 300.0	73484	2011-11-03 at 07:28	86534	2011-11-03 at 07:28
SO4 (IC)	E 300.0	73575	2011-11-06 at 05:05	86653	2011-11-06 at 05:05
TDS	SM 2540C	73275	2011-11-08 at 17:41	86303	2011-11-08 at 17:41
TDS	SM 2540C	73275	2011-11-08 at 17:41	86304	2011-11-08 at 17:41
TKN	E 351.3	73478	2011-11-17 at 11:27	86533	2011-11-17 at 12:15
TKN	E 351.3	73479	2011-11-17 at 11:37	86532	2011-11-17 at 12:14

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 11110218 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: 281279 - 833-2

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86530 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73483 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**885**	**885**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281279 - 833-2

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86530 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73483 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**82.3**	**82.3**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281279 - 833-2

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**4010**	**4010**	<5.00	mg/L	1	5.00	5	5

Sample: 281279 - 833-2

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A

QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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	**2.38**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281280 - 833-4

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86530 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73483 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**867**	**867**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281280 - 833-4

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | Sample Preparation: 2011-11-02 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**43.4**	**43.4**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281280 - 833-4

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**3040**	**3040**	<5.00	mg/L	1	5.00	5	5

Sample: 281280 - 833-4

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86533 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73478 Sample Preparation: 2011-11-17 Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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: 281281 - 833-5

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 Sample Preparation: 2011-11-03 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1150**	**1150**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281281 - 833-5

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86521 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73467 Sample Preparation: 2011-11-02 Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**12.2**	**12.2**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281281 - 833-5

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**2580**	**2580**	<5.00	mg/L	1	5.00	5	5

Sample: 281281 - 833-5

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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	**2.24**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281282 - 833-7

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1090**	**1090**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281282 - 833-7

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**94.2**	**94.2**	<5.00	mg/L	50	5.00	0.5	0.1

Sample: 281282 - 833-7

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**3840**	**3840**	<5.00	mg/L	1	5.00	5	5

Sample: 281282 - 833-7

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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: 281283 - 833-8

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**966**	**966**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281283 - 833-8

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**69.8**	**69.8**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281283 - 833-8

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**3080**	**3080**	<5.00	mg/L	1	5.00	5	5

Sample: 281283 - 833-8

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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	**4.20**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281284 - 833-9

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR

Prep Batch: 73484 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**779**	**779**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281284 - 833-9

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**93.0**	**93.0**	<5.00	mg/L	50	5.00	0.5	0.1

Sample: 281284 - 833-9

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**3880**	**3880**	<5.00	mg/L	1	5.00	5	5

Sample: 281284 - 833-9

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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: 281285 - 833-10

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86547 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73494 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**573**	**573**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281285 - 833-10

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86529 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73482 | Sample Preparation: 2011-11-02 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**3.69**	**3.69**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281285 - 833-10

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**2590**	**2590**	<5.00	mg/L	1	5.00	5	5

Sample: 281285 - 833-10

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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: 281286 - Lagoon

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86547 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73494 Sample Preparation: 2011-11-03 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**560**	**560**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281286 - Lagoon

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86529 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73482 Sample Preparation: 2011-11-02 Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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: 281286 - Lagoon

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86304 Date Analyzed: 2011-11-08 Analyzed By: MD
Prep Batch: 73275 Sample Preparation: 2011-11-08 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	**4560**	**4560**	<5.00	mg/L	1	5.00	5	5

Sample: 281286 - Lagoon

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86532	Date Analyzed:	2011-11-17	Analyzed By:	AH
Prep Batch:	73479	Sample Preparation:	2011-11-17	Prepared By:	AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	**205**	**205**	<2.17	mg/L	1	2.17	10	2.17

Sample: 281287 - Big Sky LRG 4116

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86653	Date Analyzed:	2011-11-06	Analyzed By:	JR
Prep Batch:	73575	Sample Preparation:	2011-11-06	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**185**	**185**	<5.00	mg/L	10	5.00	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | QC Preparation: 2011-11-02 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86529 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73482 | QC Preparation: 2011-11-02 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86530 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73483 | QC Preparation: 2011-11-03 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86532 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73479 QC Preparation: 2011-11-17 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: 86533 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73478 QC Preparation: 2011-11-17 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: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86547 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73494 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281283

QC Batch: 86303 Date Analyzed: 2011-11-08 Analyzed By: MD
Prep Batch: 73275 QC Preparation: 2011-11-08 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3150	3080	mg/L	1	2	10

Duplicate (1) Duplicated Sample: 281349

QC Batch:	86304	Date Analyzed:	2011-11-08	Analyzed By:	MD
Prep Batch:	73275	QC Preparation:	2011-11-08	Prepared By:	MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2700	2460	mg/L	1	9	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	953	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	988	mg/L	1	1000	<5.00	99	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: 86304 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	922	mg/L	1	1000	<5.00	92	90 - 110	8	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: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86529 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73482 QC Preparation: 2011-11-02 Prepared By: JR

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	4.83	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: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 QC Preparation: 2011-11-03 Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 QC Preparation: 2011-11-03 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.82	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: 86532 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73479 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	51.1	mg/L	1	50.0	<2.17	102	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	51.8	mg/L	1	50.0	<2.17	104	68.6 - 108	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: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	51.8	mg/L	1	50.0	<2.17	104	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	50.7	mg/L	1	50.0	<2.17	101	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: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.8	mg/L	1	25.0	<0.500	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: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.92	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.

Laboratory Control Spike (LCS-1)

QC Batch: 86547 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73494 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	23.8	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.	Rec. Limit	RPD	RPD Limit
Sulfate		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.

Matrix Spike (MS-1) Spiked Sample: 281273

QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	286	mg/L	55.6	278	19.3	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	290	mg/L	55.6	278	19.3	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: 281273

QC Batch: 86529 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73482 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	290	mg/L	55.6	278	19.2	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	289	mg/L	55.6	278	19.2	97	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: 281274

QC Batch: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 QC Preparation: 2011-11-03 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1980	mg/L	55.6	1390	537	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	1990	mg/L	55.6	1390	537	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: 281274

QC Batch: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 QC Preparation: 2011-11-03 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	8.13	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	276	mg/L	55.6	278	8.13	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: 281348

QC Batch: 86532 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73479 QC Preparation: 2011-11-17 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.9	mg/L	1	50.0	<2.17	90	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	45.5	mg/L	1	50.0	<2.17	91	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: 281282

QC Batch: 86533 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73478 QC Preparation: 2011-11-17 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.0	mg/L	1	50.0	<2.17	88	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	44.8	mg/L	1	50.0	<2.17	90	53.2 - 117	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: 281283

QC Batch: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3840	mg/L	111	2780	966	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	3850	mg/L	111	2780	966	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: 281283

QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	622	mg/L	111	555	69.8	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	623	mg/L	111	555	69.8	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: 281285

QC Batch: 86547 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73494 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2080	mg/L	55.6	1390	573	108	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	2080	mg/L	55.6	1390	573	108	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: 281481

QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1580	mg/L	55.6	1390	185	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
Sulfate		1	1580	mg/L	55.6	1390	185	100	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: 86521 | Date Analyzed: 2011-11-02 | 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	4.82	96	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86521 | Date Analyzed: 2011-11-02 | 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	4.81	96	90 - 110	2011-11-02

Standard (CCV-1)

QC Batch: 86529 | Date Analyzed: 2011-11-02 | 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	4.81	96	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86529 | Date Analyzed: 2011-11-02 | 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	4.80	96	90 - 110	2011-11-02

Standard (CCV-1)

QC Batch: 86530 | Date Analyzed: 2011-11-03 | 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86530 | Date Analyzed: 2011-11-03 | 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	4.80	96	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86530 | Date Analyzed: 2011-11-03 | 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86530 | Date Analyzed: 2011-11-03 | 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	4.81	96	90 - 110	2011-11-03

Standard (ICV-1)

QC Batch: 86532 | Date Analyzed: 2011-11-17 | 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	4.90	98	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86532 Date Analyzed: 2011-11-17 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	2011-11-17

Standard (ICV-1)

QC Batch: 86533 Date Analyzed: 2011-11-17 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	4.45	89	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86533 Date Analyzed: 2011-11-17 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	4.54	91	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86534 Date Analyzed: 2011-11-03 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86534 | Date Analyzed: 2011-11-03 | 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	4.81	96	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86534 | Date Analyzed: 2011-11-03 | 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86534 | Date Analyzed: 2011-11-03 | 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	4.81	96	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86547 | Date Analyzed: 2011-11-03 | 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86547 | Date Analyzed: 2011-11-03 | 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	24.0	96	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-11-06

Standard (CCV-2)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.1	96	90 - 110	2011-11-06

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

1111 0218

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0218

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
Fax #:
E-mail: vayala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048 George Segura
Project #:
Project Name: Big Sky Dairy
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~833-1~~	~~1~~	~~500ml~~	X						~~X~~		~~X~~			
	~~833-1~~	~~1~~	~~500ml~~	~~X~~								~~X~~			
281279-1	833-2	1	500ml	X						X		X		11/1/11	15:30
↓ -2	833-2	1	500ml	X								X		11/1/11	15:30
	~~833-3~~	~~1~~	~~500ml~~	~~X~~						~~X~~		~~X~~			
	~~833-3~~	~~1~~	~~500ml~~	~~X~~								~~X~~			
281280-1	833-4	1	500ml	X						X		X		11/1/11	16:05
↓ -2	833-4	1	500ml	X								X		11/1/11	16:05
281281-1	833-5	1	500ml	X						X		X		11/1/11	11:07
↓ -2	833-5	1	500ml	X								X		11/1/11	11:07
	~~833-6~~	~~1~~	~~500ml~~	~~X~~						~~X~~		~~X~~			
	~~833-6~~	~~1~~	~~500ml~~	~~X~~								~~X~~			
281282-1	833-7	1	500ml	X						X		X		11/1/11	9:37
↓ -2	833-7	1	500ml	X								X		11/1/11	9:37
281283-1	833-8	1	500ml	X						X		X		11/1/11	14:41
↓ -2	833-8	1	500ml	X								X		11/1/11	14:41

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 *	Total Kjeldhal 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	X				
							X	X						

Relinquished By: Melinus Date: 11/1/11 Time: 16:50
Received By: Date: 11/1/11 Time: 16:50
Relinquished By: Date: 11/2/11 Time: 0630
Received at Laboratory By: Date: 11/3/11 Time: 9:00

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 0/0 Corr. Factor
Log-in Review

Remarks: * Analyze preserved Nitrates Sample only if unpreserved Sample not available IR 5.1/5.3
Dry Weight Basis Required
TRRP Report Required

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0218

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
	Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Fax #:
	E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048	George Segura
Project #:	Project Name: Big Sky Dairy
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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 *	Total Kjeldhal Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Sulfate	Turn Around Time	Hold
281284-1	833-9	1	500ml	X						X		X		11/1/11	14:51								X	X					
-2	833-9	1	500ml	X								X		11/1/11	14:01								X		X	X			
281285-1	833-10	1	500ml	X						X		X		11/1/11	11:19								X	X					
-2	833-10	1	500ml	X								X		11/1/11	11:18								X		X	X			
281286-1	Lagoon	1	500ml	X						X		X		11/1/11	9:18								X	X					
-2	Lagoon	1	500ml	X								X		11/1/11	9:18								X		X	X			
281287-1	Big Sky LRG 4176	1	125ml	X								X		11/1/11	10:58												X		

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11/1/11	16:50	[signature]	11/1/11	16:50
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
[signature]	11/2/11	1630	[signature]	11/3/11	9:20

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 2.0 °Corr.
Log-in Review JH

Remarks: * Analysis preserved Nitrates Sample only if unpreserved Sample not available. IR 5.1/5.3

Dry Weight Basis Required
TRRP Report Required

1111-0218

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111-0218

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
Cell #:
Fax #:
E-mail: vayala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048 George Segura
Project #:
Project Name: Big Sky Dairy
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~833-1~~	1	~~500ml~~	X						X		X			
	~~833-1~~	1	~~500ml~~	X								X			
281279-1	833-2	1	500ml	X						X		X		11/1/11	15:30
↓ -2	833-2	1	500ml	X								X		11/1/11	15:30
	~~833-3~~	1	~~500ml~~	X						X		X			
	~~833-3~~	1	~~500ml~~	X								X			
281280-1	833-4	1	500ml	X						X		X		11/1/11	16:05
↓ -2	833-4	1	500ml	X								X		11/1/11	16:05
281281-1	833-5	1	500ml	X						X		X		11/1/11	16:07
↓ -2	833-5	1	500ml	X								X		11/1/11	16:07
	~~833-6~~	1	~~500ml~~	X						X		X			
	~~833-6~~	1	~~500ml~~	X								X			
281282-1	833-7	1	500ml	X						X		X		11/1/11	9:37
↓ -2	833-7	1	500ml	X								X		11/1/11	9:37
281283-1	833-8	1	500ml	X						X		X		11/1/11	14:41
↓ -2	833-8	1	500ml	X								X		11/1/11	14:41

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 *	Total Kjeldhal 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	X				
							X	X						
							X		X	X				

Relinquished By: Date: Time:
Received By: Date: Time:
Relinquished By: Date: Time:
Received at Laboratory By: Date: Time:

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 0.0 °C
Log-in Review

Remarks: * Analyze preserved Nitrates sample only if unpreserved sample not available 1R 5.1/5.3

Dry Weight Basis Required
TRRP Report Required

3-125 14Sets

6701 Aberdeen, Ste. 9
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TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 111244

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Fax #:
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
E-mail: vayala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048 George Segura
Project #:
Project Name: Big Sky Dairy
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
281284-1	833-9	1	500ml	X						X		X		11/1/11	14:01
-2	833-9	1	500ml	X								X		11/1/11	14:01
281285-1	833-10	1	500ml	X						X		X		11/1/11	11:18
-2	833-10	1	500ml	X								X		11/1/11	11:18
281286-1	Lagoon	1	500ml	X						X		X		11/1/11	9:18
-2	Lagoon	1	500ml	X								X		11/1/11	9:18
281287-1	Big Sky LRG 4116	1	125ml	X								X		11/1/11	10:58

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 *	Total Kjeldhal Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Sulfate	Turn Around Time	Hold
							X	X					
							X		X	X			
							X	X					
							X		X	X			
							X	X					
							X		X	X			
											X		

Relinquished By: Date: 11/1/11 Time: 16:50
Received By: Date: 11/1/11 Time: 16:50
Relinquished By: Date: 11/2/11 Time: 16:30
Received at Laboratory By: Date: 11/3/11 Time: 9:20

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 0/0 °C Corr. 0.2
Log-in Review JD

Remarks: * Nitrates preserved Nitrates sample only if unpreserved sample not available. IR 5.1/5.3

Dry Weight Basis Required
TRRP Report Required

TRACEANALYSIS, INC.

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

Edward DeRuyter
Sunset Dairy
17900 Stern Drive
P.O. Box 10
Mesquite, NM, 88048

Report Date: November 22, 2011

Work Order: 11110216

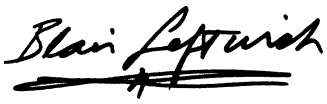
DP: 257/260
Project Location: Sunset Dairy, 1790
Project Name: Sunset Dairy

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
281272	257-01	water	2011-11-01	10:02	2011-11-01
281273	257-02	water	2011-11-01	09:05	2011-11-01
281274	257-03	water	2011-11-01	12:42	2011-11-01
281275	257/260-01	water	2011-11-01	11:52	2011-11-01
281276	Lagoon-257	water	2011-11-01	09:03	2011-11-01
281277	Desert Land LRG 3348-8	water	2011-11-01	11:08	2011-11-01
281278	Sunset LRG 3348-A5	water	2011-11-01	11:12	2011-11-01

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.

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



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

Report Contents

Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2011-11-01 and assigned to work order 11110216. Samples for work order 11110216 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	73482	2011-11-02 at 22:32	86529	2011-11-02 at 22:32
Chloride (IC)	E 300.0	73483	2011-11-03 at 02:45	86530	2011-11-03 at 02:45
Chloride (IC)	E 300.0	73484	2011-11-03 at 07:28	86534	2011-11-03 at 07:28
NO3 (IC)	E 300.0	73467	2011-11-02 at 18:34	86521	2011-11-02 at 18:34
NO3 (IC)	E 300.0	73484	2011-11-03 at 07:28	86534	2011-11-03 at 07:28
SO4 (IC)	E 300.0	73575	2011-11-06 at 05:05	86653	2011-11-06 at 05:05
SO4 (IC)	E 300.0	73578	2011-11-10 at 04:04	86656	2011-11-10 at 04:04
TDS	SM 2540C	73166	2011-11-07 at 14:06	86159	2011-11-04 at 14:06
TDS	SM 2540C	73275	2011-11-08 at 17:41	86303	2011-11-08 at 17:41
TKN	E 351.3	73478	2011-11-17 at 11:27	86533	2011-11-17 at 12:15

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 11110216 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: 281272 - 257-01

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86529 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73482 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**619**	**619**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281272 - 257-01

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | Sample Preparation: 2011-11-02 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**28.4**	**28.4**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281272 - 257-01

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86159 | Date Analyzed: 2011-11-04 | Analyzed By: MD
Prep Batch: 73166 | Sample Preparation: 2011-11-07 | 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	**2730**	**2730**	<5.00	mg/L	1	5.00	5	5

Sample: 281272 - 257-01

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A

QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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: 281273 - 257-02

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86529 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73482 | Sample Preparation: 2011-11-02 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**442**	**442**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281273 - 257-02

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | Sample Preparation: 2011-11-02 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**19.3**	**19.3**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281273 - 257-02

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**3150**	**3150**	<5.00	mg/L	1	5.00	5	5

Sample: 281273 - 257-02

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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	**2.24**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281274 - 257-03

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86530 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73483 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**537**	**537**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281274 - 257-03

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | Sample Preparation: 2011-11-02 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**7.37**	**7.37**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281274 - 257-03

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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	**2210**	**2210**	<5.00	mg/L	1	5.00	5	5

Sample: 281274 - 257-03

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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: 281275 - 257/260-01

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86530 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73483 | Sample Preparation: 2011-11-03 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**658**	**658**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281275 - 257/260-01

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | Sample Preparation: 2011-11-02 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**16.7**	**16.7**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281275 - 257/260-01

Laboratory: El Paso
Analysis: TDS — Analytical Method: SM 2540C — Prep Method: N/A
QC Batch: 86303 — Date Analyzed: 2011-11-08 — Analyzed By: MD
Prep Batch: 73275 — Sample Preparation: 2011-11-08 — 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	**2850**	**2850**	<5.00	mg/L	1	5.00	5	5

Sample: 281275 - 257/260-01

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86533 — Date Analyzed: 2011-11-17 — Analyzed By: AH
Prep Batch: 73478 — Sample Preparation: 2011-11-17 — Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

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	**2.94**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281276 - Lagoon-257

Laboratory: El Paso
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86534 — Date Analyzed: 2011-11-03 — Analyzed By: JR
Prep Batch: 73484 — Sample Preparation: 2011-11-03 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**912**	**912**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281276 - Lagoon-257

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86534 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73484 | Sample Preparation: 2011-11-03 | Prepared By: JR

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	[1]	**2.50**	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281276 - Lagoon-257

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | Sample Preparation: 2011-11-08 | 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]	**3590**	**3590**	<5.00	mg/L	1	5.00	5	5

Sample: 281276 - Lagoon-257

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | Sample Preparation: 2011-11-17 | Prepared By: AH

Comment: Analyze preserved Nitrate sample only if unpreserved sample is not available.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		[2]	**227**	**227**	<2.17	mg/L	1	2.17	10	2.17

Sample: 281277 - Desert Land LRG 3348-8

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR

Prep Batch: 73578 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**185**	**185**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281278 - Sunset LRG 3348-A5

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**446**	**446**	<5.00	mg/L	10	5.00	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86159 | Date Analyzed: 2011-11-04 | Analyzed By: MD
Prep Batch: 73166 | QC Preparation: 2011-11-07 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | QC Preparation: 2011-11-02 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86529 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73482 | QC Preparation: 2011-11-02 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86533 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73478 QC Preparation: 2011-11-17 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: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

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

Method Blank (1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

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

Method Blank (1)

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73578 QC Preparation: 2011-11-10 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281272

QC Batch: 86159 Date Analyzed: 2011-11-04 Analyzed By: MD
Prep Batch: 73166 QC Preparation: 2011-11-07 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2940	2730	mg/L	1	7	10

Duplicate (1) Duplicated Sample: 281283

QC Batch: 86303 Date Analyzed: 2011-11-08 Analyzed By: MD
Prep Batch: 73275 QC Preparation: 2011-11-08 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3150	3080	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86159 | Date Analyzed: 2011-11-04 | Analyzed By: MD
Prep Batch: 73166 | QC Preparation: 2011-11-07 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	974	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	988	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: 86303 | Date Analyzed: 2011-11-08 | Analyzed By: MD
Prep Batch: 73275 | QC Preparation: 2011-11-08 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	953	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	988	mg/L	1	1000	<5.00	99	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: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86529 Date Analyzed: 2011-11-02 Analyzed By: JR
Prep Batch: 73482 QC Preparation: 2011-11-02 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.2	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.4	mg/L	1	25.0	<0.500	98	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: 86530 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73483 QC Preparation: 2011-11-03 Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86533 Date Analyzed: 2011-11-17 Analyzed By: AH
Prep Batch: 73478 QC Preparation: 2011-11-17 Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	51.8	mg/L	1	50.0	<2.17	104	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	50.7	mg/L	1	50.0	<2.17	101	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: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.8	mg/L	1	25.0	<0.500	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: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.92	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.

Laboratory Control Spike (LCS-1)

QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	23.8	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.	Rec. Limit	RPD	RPD Limit
Sulfate		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: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73578 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	24.0	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
Sulfate		1	24.0	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.

Matrix Spike (MS-1) Spiked Sample: 281273

QC Batch: 86521 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73467 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	286	mg/L	55.6	278	19.3	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	290	mg/L	55.6	278	19.3	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: 281273

QC Batch: 86529 | Date Analyzed: 2011-11-02 | Analyzed By: JR
Prep Batch: 73482 | QC Preparation: 2011-11-02 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		[1]	1880	mg/L	55.6	1390	442	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]	1870	mg/L	55.6	1390	442	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: 281274

QC Batch: 86530 | Date Analyzed: 2011-11-03 | Analyzed By: JR
Prep Batch: 73483 | QC Preparation: 2011-11-03 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		[1]	1980	mg/L	55.6	1390	537	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]	1990	mg/L	55.6	1390	537	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: 281282

QC Batch: 86533 | Date Analyzed: 2011-11-17 | Analyzed By: AH
Prep Batch: 73478 | QC Preparation: 2011-11-17 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		[2]	44.0	mg/L	1	50.0	<2.17	88	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	44.8	mg/L	1	50.0	<2.17	90	53.2 - 117	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: 281283

QC Batch: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3840	mg/L	111	2780	966	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	3850	mg/L	111	2780	966	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: 281283

QC Batch: 86534 Date Analyzed: 2011-11-03 Analyzed By: JR
Prep Batch: 73484 QC Preparation: 2011-11-03 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	622	mg/L	111	555	69.8	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	623	mg/L	111	555	69.8	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: 281481

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1580	mg/L	55.6	1390	185	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
Sulfate		1	1580	mg/L	55.6	1390	185	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: 281277

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73578 QC Preparation: 2011-11-10 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1540	mg/L	55.6	1390	185	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
Sulfate		1	1540	mg/L	55.6	1390	185	97	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: 86521 | Date Analyzed: 2011-11-02 | 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	4.82	96	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86521 | Date Analyzed: 2011-11-02 | 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	4.81	96	90 - 110	2011-11-02

Standard (CCV-1)

QC Batch: 86529 | Date Analyzed: 2011-11-02 | 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	24.2	97	90 - 110	2011-11-02

Standard (CCV-2)

QC Batch: 86529 | Date Analyzed: 2011-11-02 | 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	24.2	97	90 - 110	2011-11-02

Standard (CCV-1)

QC Batch: 86530 Date Analyzed: 2011-11-03 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86530 Date Analyzed: 2011-11-03 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	24.2	97	90 - 110	2011-11-03

Standard (ICV-1)

QC Batch: 86533 Date Analyzed: 2011-11-17 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	4.45	89	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86533 Date Analyzed: 2011-11-17 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	4.54	91	85 - 115	2011-11-17

Standard (CCV-1)

QC Batch: 86534 Date Analyzed: 2011-11-03 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86534 Date Analyzed: 2011-11-03 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	4.81	96	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86534 Date Analyzed: 2011-11-03 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	24.2	97	90 - 110	2011-11-03

Standard (CCV-2)

QC Batch: 86534 Date Analyzed: 2011-11-03 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	4.81	96	90 - 110	2011-11-03

Standard (CCV-1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-11-06

Standard (CCV-2)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.1	96	90 - 110	2011-11-06

Standard (CCV-1)

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-11-10

Standard (CCV-2)

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-11-10

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

1111O216

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TraceAnalysis, Inc.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111O216

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: / Fax #: / E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Sunset Dairy, PO Box 10, Mesquite, NM 88048 Ed de Ruyter	
Project #:	Project Name: Sunset Dairy
Project Location (including state): Sunset Dairy, 1790	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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 *	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate		Turn Around Time	Hold
281272-1	257-01	1	200 ml	X						X		X		11/1/11	10:02								X	X						
-2	257-01	1	500ml	X								X			10:02								X		X	X				
281273-1	257-02	1	500ml	X						X		X			9:05								X	X						
-2	257-02	1	500ml	X								X			9:05								X		X	X				
281274-1	257-03	1	500ml	X						X		X			12:42								X	X						
-2	257-03	1	500ml	X								X			12:42								X		X	X				
281275-1	257/260-01	1	500ml	X						X		X		11/1/11	10:52								X	X						
-2	257/260-01	1	500ml	X								X		11/1/11	10:52								X		X	X				
281276-1	Lagoon-257	1	500ml	X						X		X		11/1/11	9:03								X	X						
-2	Lagoon-257	1	500ml	X								X		11/1/11	9:04								X		X	X				
281277-1	Dairyland LRG 3348-B	1	125ml	X								X		11/1/11	10:08												X			
281278-1	Sunset LRG 3348-B5	1	125ml	X								X		11/1/11	11:12												X			

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Thorsten Meinus	11/1/11	16:50		11/1/11	16:50
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/2/11	1630		11/3/11	9:00

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 0 / 6 °C ice
Log-in Review JR

Remarks:
* Analyze preserved Nitrates Sample only which was preserved not possible to analyze
Dry Weight Basis Required
TRRP Report Required

1111O216

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111O216

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Fax #:
E-mail: vajala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Sunset Dairy, PO Box 10, Mesquite, NM 88048 Ed de Ruyter
Project #:
Project Name: Sunset Dairy
Project Location (including state): Sunset Dairy, 1790
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
281272-1	257-01	1	200 ml	X						X		X		11/1/11	10:02
-2	257-01	1	500ml	X								X			10:02
281273-1	257-02	1	500ml	X						X		X			9:05
-2	257-02	1	500ml	X								X			9:05
281274-1	257-03	1	500ml	X						X		X			12:42
-2	257-03	1	500ml	X								X			12:42
281275-1	257/260-01	1	500ml	X						X		X		11/1/11	10:52
-2	257/260-01	1	500ml	X								X		11/1/11	10:52
281276-1	Lagoon-257	1	500ml	X						X		X		11/1/11	9:03
-2	Lagoon-257	1	500ml	X								X		11/1/11	9:03
281277-1	Desert Land LRG 3348-B	1	125ml	X								X		11/1/11	11:08
281278-1	Sunset LRG 3348-A5	1	125ml	X								X		11/1/11	11:12

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 *	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate	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	X			
							X	X					
							X		X	X			
											X		
											X		

Relinquished By: Thorsten Meinus Date: 11/1/11 Time: 16:50
Received By: Date: 11/1/11 Time: 16:50
Relinquished By: Date: 11/2/11 Time: 1630
Received at Laboratory By: Date: 11/3/11 Time: 9:00

Lab Use Only
Intact (Y) N
Headspace Y / N
Temp 0.0 °C
Log-in Review JM

Remarks:
* Analyze preserved Nitrates Sample only check un preserved not possible to analyze
Dry Weight Basis Required
TRRP Report Required
14 days

TRACEANALYSIS, INC.

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: November 22, 2011

Work Order: 11110430

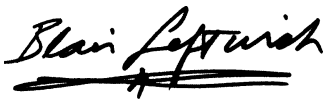
DP: 126
Project Location: 12560 Stern Dr., Mesquite, NM
Project Name: Del Norte Dairy

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
281688	126-5	water	2011-11-04	14:12	2011-11-04
281689	126-7	water	2011-11-04	14:18	2011-11-04
281690	126-12	water	2011-11-04	12:55	2011-11-04
281691	Lagoon-126	water	2011-11-04	14:30	2011-11-04

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.

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



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

Report Contents

Case Narrative

Samples for project Del Norte Dairy were received by TraceAnalysis, Inc. on 2011-11-04 and assigned to work order 11110430. Samples for work order 11110430 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	73572	2011-11-05 at 16:41	86650	2011-11-05 at 16:41
Chloride (IC)	E 300.0	73573	2011-11-05 at 20:54	86651	2011-11-05 at 20:54
NO3 (IC)	E 300.0	73571	2011-11-05 at 09:37	86649	2011-11-05 at 09:37
NO3 (IC)	E 300.0	73573	2011-11-05 at 20:54	86651	2011-11-05 at 20:54
TDS	SM 2540C	73369	2011-11-11 at 13:05	86417	2011-11-11 at 13:05
TKN	E 351.3	73517	2011-11-18 at 10:31	86587	2011-11-18 at 13:18

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 11110430 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: 281688 - 126-5

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**543**	**543**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281688 - 126-5

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**31.2**	**31.2**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281688 - 126-5

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | 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	**3510**	**3510**	<5.00	mg/L	1	5.00	5	5

Sample: 281688 - 126-5

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | Sample Preparation: 2011-11-18 | 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: 281689 - 126-7

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86650 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73572 Sample Preparation: 2011-11-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**668**	**668**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281689 - 126-7

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86649 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73571 Sample Preparation: 2011-11-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**19.8**	**19.8**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281689 - 126-7

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86417 Date Analyzed: 2011-11-11 Analyzed By: MD
Prep Batch: 73369 Sample Preparation: 2011-11-11 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	**27200**	**27200**	<5.00	mg/L	1	5.00	5	5

Sample: 281689 - 126-7

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | Sample Preparation: 2011-11-18 | 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: 281690 - 126-12

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**430**	**430**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281690 - 126-12

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**13.3**	**13.3**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281690 - 126-12

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | Prepared By: MD

continued ...

sample 281690 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**2600**	**2600**	<5.00	mg/L	1	5.00	5	5

Sample: 281690 - 126-12

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86587 — Date Analyzed: 2011-11-18 — Analyzed By: AH
Prep Batch: 73517 — Sample Preparation: 2011-11-18 — 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: 281691 - Lagoon-126

Laboratory: El Paso
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86651 — Date Analyzed: 2011-11-05 — Analyzed By: JR
Prep Batch: 73573 — Sample Preparation: 2011-11-05 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1310**	**1310**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281691 - Lagoon-126

Laboratory: El Paso
Analysis: NO3 (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86651 — Date Analyzed: 2011-11-05 — Analyzed By: JR
Prep Batch: 73573 — Sample Preparation: 2011-11-05 — 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	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281691 - Lagoon-126

Laboratory: El Paso
Analysis: TDS — Analytical Method: SM 2540C — Prep Method: N/A
QC Batch: 86417 — Date Analyzed: 2011-11-11 — Analyzed By: MD
Prep Batch: 73369 — Sample Preparation: 2011-11-11 — 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	**5250**	**5250**	<5.00	mg/L	1	5.00	5	5

Sample: 281691 - Lagoon-126

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86587 — Date Analyzed: 2011-11-18 — Analyzed By: AH
Prep Batch: 73517 — Sample Preparation: 2011-11-18 — 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	**260**	**260**	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | 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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86651 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73573 QC Preparation: 2011-11-05 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281691

QC Batch: 86417 Date Analyzed: 2011-11-11 Analyzed By: MD
Prep Batch: 73369 QC Preparation: 2011-11-11 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	5490	5250	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	983	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	979	mg/L	1	1000	<5.00	98	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: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<2.17	91	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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
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: 86650 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73572 QC Preparation: 2011-11-05 Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86651 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73573 QC Preparation: 2011-11-05 Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.2	mg/L	1	25.0	<0.500	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: 86651 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73573 QC Preparation: 2011-11-05 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.84	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.83	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.

Matrix Spike (MS-1) Spiked Sample: 281694

QC Batch: 86587 Date Analyzed: 2011-11-18 Analyzed By: AH
Prep Batch: 73517 QC Preparation: 2011-11-18 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	231	mg/L	1	50.0	200	62	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	235	mg/L	1	50.0	200	70	53.2 - 117	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: 281685

QC Batch: 86649 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73571 QC Preparation: 2011-11-05 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	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	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	270	mg/L	55.6	278	<5.56	97	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: 281690

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1850	mg/L	55.6	1390	430	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	1860	mg/L	55.6	1390	430	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: 281692

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3470	mg/L	111	2780	691	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
Chloride		1	3470	mg/L	111	2780	691	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: 281692

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	562	mg/L	111	555	25.4	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	562	mg/L	111	555	25.4	101	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: 86587 | Date Analyzed: 2011-11-18 | 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	4.54	91	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | 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	2011-11-18

Standard (CCV-1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	4.81	96	90 - 110	2011-11-05

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 111109430

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Cell #: / Fax #: / E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Del Norte Dairy, P.O. Box 10, Mesquite, NM 88048	Linda Armstrong 575-233-3620
Project #:	Project Name: Daybreak Dairy
Project Location (including state): Del Norte Dairy, 12560 Stern Drive, Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~126-4~~	1		X						X		X			
	~~126-4~~	1		X								X			
281688	126-5	1	500mL	X						X		X		11/4/11	14:12
↓	126-5	1	250mL	X								X		11/4/11	14:12
281689	126-7	1	500mL	X						X		X		11/4/11	14:18
↓	126-7	1	250mL	X								X		11/4/11	14:18
	~~126-9~~	1		X						X		X			
	~~126-9~~	1		X								X			
281690	126-12	1	500mL	X						X		X		11/4/11	12:55
↓	126-12	1	250mL	X								X		11/4/11	12:55
	~~126-13~~	1		X						X		X			
	~~126-13~~	1		X								X			
281691	Lagoon – 126	1	500mL	X						X		X		11/4/11	14:30
↓	Lagoon – 126 11-4-11	1	250mL	X								X		11/4/11	14:30

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	Total Kjeldhal 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	X				
							X	X						
							X		X	X				
							X	X						
							X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Melissa	11/4/11	15:20		11/4/11	1520
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/4/11	1700		11-5-11	10:30

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1/1°C bxt
Log-in Review JH

Remarks: NO_3, Cl, TDS done in ~~ref~~
Analize presserved only if unpresserved is unattainable
2.1°
PS: 4495964
Dry Weight Basis Required
TRRP Report Required

TRACEANALYSIS, INC.

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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: November 22, 2011

Work Order: 11110429

DP: 177
Project Location: 14310 Stern Dr., Mesquite, NM
Project Name: Gonzalez Dairy Inc.

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
281685	177-03A	water	2011-11-04	07:42	2011-11-04
281686	177-07R	water	2011-11-04	08:25	2011-11-04
281687	LRG 05351-S	water	2011-11-04	09:30	2011-11-04

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.

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

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

Report Contents

Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2011-11-04 and assigned to work order 11110429. Samples for work order 11110429 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	73571	2011-11-05 at 09:37	86649	2011-11-05 at 09:37
Chloride (IC)	E 300.0	73572	2011-11-05 at 16:41	86650	2011-11-05 at 16:41
NO3 (IC)	E 300.0	73571	2011-11-05 at 09:37	86649	2011-11-05 at 09:37
SO4 (IC)	E 300.0	73578	2011-11-10 at 04:04	86656	2011-11-10 at 04:04
TDS	SM 2540C	73353	2011-11-10 at 15:55	86396	2011-11-10 at 15:55
TKN	E 351.3	73517	2011-11-18 at 10:31	86587	2011-11-18 at 13:18

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 11110429 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: 281685 - 177-03A

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86649	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73571	Sample Preparation:	2011-11-05	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**436**	**436**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281685 - 177-03A

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86649	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73571	Sample Preparation:	2011-11-05	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: 281685 - 177-03A

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	86396	Date Analyzed:	2011-11-10	Analyzed By:	MD
Prep Batch:	73353	Sample Preparation:	2011-11-10	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	**1850**	**1850**	<5.00	mg/L	1	5.00	5	5

Sample: 281685 - 177-03A

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86587	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73517	Sample Preparation:	2011-11-18	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	**3.50**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281686 - 177-07R

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1050**	**1050**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281686 - 177-07R

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**29.3**	**29.3**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281686 - 177-07R

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**2830**	**2830**	<5.00	mg/L	1	5.00	5	5

Sample: 281686 - 177-07R

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | Sample Preparation: 2011-11-18 | 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	**2.66**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281687 - LRG 05351-S

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73578 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**233**	**233**	<5.00	mg/L	10	5.00	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | 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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73578 | QC Preparation: 2011-11-10 | Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281698

QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2000	1980	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	982	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	958	mg/L	1	1000	<5.00	96	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: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<2.17	91	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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | 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.	Rec. Limit	RPD	RPD Limit
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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
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: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73578 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	24.0	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
Sulfate		1	24.0	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.

Matrix Spike (MS-1) Spiked Sample: 281694

QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	231	mg/L	1	50.0	200	62	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	235	mg/L	1	50.0	200	70	53.2 - 117	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: 281685

QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1810	mg/L	55.6	1390	436	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
Chloride		1	1810	mg/L	55.6	1390	436	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: 281685

QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	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	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	270	mg/L	55.6	278	<5.56	97	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: 281690

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1850	mg/L	55.6	1390	430	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	1860	mg/L	55.6	1390	430	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: 281277

QC Batch: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73578 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1540	mg/L	55.6	1390	185	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
Sulfate		1	1540	mg/L	55.6	1390	185	97	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: 86587 | Date Analyzed: 2011-11-18 | 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	4.54	91	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | 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	2011-11-18

Standard (CCV-1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86650 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86650 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86656 | Date Analyzed: 2011-11-10 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-11-10

Standard (CCV-2)

QC Batch: 86656 Date Analyzed: 2011-11-10 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.5	94	90 - 110	2011-11-10

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111042 9

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: / Fax #: / E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Gonzalez Dairy, PO Box 199, Mesquite, NM 88048	Joe Gonzalez 575-233-4801
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: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
281685-1	~~Lagoon~~ 177-03	1	500 mL	X						X		X		11/4/11	7:42
-2	~~Lagoon~~ 177-03	1	250 mL	X								X		11/4/11	7:42
281686-1	~~Lagoon~~ 177-07R	1	500 mL	X						X		X		11/4/11	8:25
-2	~~Lagoon~~ 177-07R	1	250 mL	X								X		11/4/11	8:25
281687-1	LRG 05351-S	1	125 mL	X								X		11/4/11	9:30

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	X
Total Dissolved Solids SM 2540 C MOD	X
Sulfate	X
Turn Around Time	
Hold	

Relinquished By: Thorsten Meinus	Date: 11/4/11	Time: 15:20	Received By:
Relinquished By:	Date: 11/4/11	Time: 1700	Received at Laboratory By: TA

Date: 11/5/11 Time: 10:30

Lab Use Only
Intact Y / N
Headspace Y / N
Temp 1.1 °C by IR
Log-in Review

Remarks: CARRY IN NO3, Cl, TDS done by IC per EP
Analize presserved only if unpresserved is unattainable
LS: 469759606
Dry Weight Basis Required
TRRP Report Required

5

TRACEANALYSIS, INC.

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: November 22, 2011

Work Order: 11110925

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
281987	LRG 00591-S/LRG 00591-S-2	water	2011-11-09	08:45	2011-11-09
281988	LRG 00590-S-6	water	2011-11-09	09:52	2011-11-09

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.

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

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

Report Contents

Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2011-11-09 and assigned to work order 11110925. Samples for work order 11110925 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
SO4 (IC)	E 300.0	73466	2011-11-16 at 03:54	86520	2011-11-16 at 03:54

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 11110925 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: 281987 - LRG 00591-S/LRG 00591-S-2

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86520	Date Analyzed:	2011-11-16	Analyzed By:	JR
Prep Batch:	73466	Sample Preparation:	2011-11-16	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**232**	**232**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281988 - LRG 00590-S-6

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86520	Date Analyzed:	2011-11-16	Analyzed By:	JR
Prep Batch:	73466	Sample Preparation:	2011-11-16	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**259**	**259**	<5.00	mg/L	10	5.00	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch:	86520	Date Analyzed:	2011-11-16	Analyzed By:	JR
Prep Batch:	73466	QC Preparation:	2011-11-16	Prepared By:	JR

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

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86520 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73466 | QC Preparation: 2011-11-16 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		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: 281996

QC Batch: 86520 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73466 | QC Preparation: 2011-11-16 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1860	mg/L	62.5	1560	241	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
Sulfate		1	1850	mg/L	62.5	1560	241	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 (CCV-1)

QC Batch: 86520 | Date Analyzed: 2011-11-16 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.4	94	90 - 110	2011-11-16

Standard (CCV-2)

QC Batch: 86520 | Date Analyzed: 2011-11-16 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.4	94	90 - 110	2011-11-16

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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

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 then 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 # 11110925

Page 1 of 1

TraceAnalysis, Inc.

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6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: DHH Petroleum + Environmental Services
Phone #: 915 8598150
Address: (Street, City, Zip) 1221 Tower Trail El Paso TX 79907
Fax #:
Contact Person: Victor Ayala
E-mail:
Invoice to: (If different from above) Dominguez Dairy #1, PO Box 21 Mesquite, NM 88048
Project #:
Project Name: Dominguez Dairy #1
Project Location (including state): Dominguez Dairy #1 13950 Stern Dr. Mesquite NM
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	Sulfate				Turn Around Time if different from standard	Hold
281987	LRG00591-S / LRG00591-S-2	1	125ml	X								X		11-9-11	8:45																			X					
281988	LRG00590-S-6	1	125ml	X								X		11-9-11	9:52																			X					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Mario	DHH	11-9-11	15:30	[illegible]		11/9/11	1430	INST 1.2 °C OBS 2 °C COR 2 °C
								INST ____ °C OBS ____ °C COR ____ °C
								INST ____ °C OBS ____ °C COR ____ °C

LAB USE ONLY
Intact (Y) N
Headspace Y / N / NA
Log-in-Review JH

REMARKS:
SO4 done in El.

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

(2)

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry Dr

ORIGINAL COPY

TRACEANALYSIS, INC.

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
(Corrected Report)

John DeRuyter
Del Norte Dairy, LLC
12560 Stern Drive
P. O. Box 10
Mesquite, NM, 88048

Report Date: November 28, 2011

Work Order: 11110430

DP: 126
Project Location: 12560 Stern Dr., Mesquite, NM
Project Name: Del Norte 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
281688	126-5	water	2011-11-04	14:12	2011-11-04
281689	126-7	water	2011-11-04	14:18	2011-11-04
281690	126-12	water	2011-11-04	12:55	2011-11-04
281691	Lagoon-126	water	2011-11-04	14:30	2011-11-04

Report Corrections (Work Order 11110430)

- Corrected TDS result for sample 281689. 11/28/11

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.

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

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

Report Contents

Case Narrative

Samples for project Del Norte Dairy were received by TraceAnalysis, Inc. on 2011-11-04 and assigned to work order 11110430. Samples for work order 11110430 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	73572	2011-11-05 at 16:41	86650	2011-11-05 at 16:41
Chloride (IC)	E 300.0	73573	2011-11-05 at 20:54	86651	2011-11-05 at 20:54
NO3 (IC)	E 300.0	73571	2011-11-05 at 09:37	86649	2011-11-05 at 09:37
NO3 (IC)	E 300.0	73573	2011-11-05 at 20:54	86651	2011-11-05 at 20:54
TDS	SM 2540C	73369	2011-11-11 at 13:05	86417	2011-11-11 at 13:05
TKN	E 351.3	73517	2011-11-18 at 10:31	86587	2011-11-18 at 13:18

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 11110430 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: 281688 - 126-5

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**543**	**543**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281688 - 126-5

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**31.2**	**31.2**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281688 - 126-5

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | 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	**3510**	**3510**	<5.00	mg/L	1	5.00	5	5

Sample: 281688 - 126-5

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | Sample Preparation: 2011-11-18 | 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: 281689 - 126-7

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86650 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73572 Sample Preparation: 2011-11-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**668**	**668**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281689 - 126-7

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86649 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73571 Sample Preparation: 2011-11-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**19.8**	**19.8**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281689 - 126-7

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86417 Date Analyzed: 2011-11-11 Analyzed By: MD
Prep Batch: 73369 Sample Preparation: 2011-11-11 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	**2270**	**2270**	<5.00	mg/L	1	5.00	5	5

Sample: 281689 - 126-7

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | Sample Preparation: 2011-11-18 | 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: 281690 - 126-12

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**430**	**430**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281690 - 126-12

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**13.3**	**13.3**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281690 - 126-12

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | Prepared By: MD

continued ...

sample 281690 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**2600**	**2600**	<5.00	mg/L	1	5.00	5	5

Sample: 281690 - 126-12

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86587 — Date Analyzed: 2011-11-18 — Analyzed By: AH
Prep Batch: 73517 — Sample Preparation: 2011-11-18 — 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: 281691 - Lagoon-126

Laboratory: El Paso
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86651 — Date Analyzed: 2011-11-05 — Analyzed By: JR
Prep Batch: 73573 — Sample Preparation: 2011-11-05 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1310**	**1310**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281691 - Lagoon-126

Laboratory: El Paso
Analysis: NO3 (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86651 — Date Analyzed: 2011-11-05 — Analyzed By: JR
Prep Batch: 73573 — Sample Preparation: 2011-11-05 — 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	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281691 - Lagoon-126

Laboratory: El Paso
Analysis: TDS — Analytical Method: SM 2540C — Prep Method: N/A
QC Batch: 86417 — Date Analyzed: 2011-11-11 — Analyzed By: MD
Prep Batch: 73369 — Sample Preparation: 2011-11-11 — 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	**5250**	**5250**	<5.00	mg/L	1	5.00	5	5

Sample: 281691 - Lagoon-126

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86587 — Date Analyzed: 2011-11-18 — Analyzed By: AH
Prep Batch: 73517 — Sample Preparation: 2011-11-18 — 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	**260**	**260**	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | 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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86651 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73573 QC Preparation: 2011-11-05 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281691

QC Batch: 86417 Date Analyzed: 2011-11-11 Analyzed By: MD
Prep Batch: 73369 QC Preparation: 2011-11-11 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	5490	5250	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	983	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	979	mg/L	1	1000	<5.00	98	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: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<2.17	91	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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
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: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.2	mg/L	1	25.0	<0.500	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: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.84	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.83	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.

Matrix Spike (MS-1) Spiked Sample: 281694

QC Batch: 86587 Date Analyzed: 2011-11-18 Analyzed By: AH
Prep Batch: 73517 QC Preparation: 2011-11-18 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	231	mg/L	1	50.0	200	62	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	235	mg/L	1	50.0	200	70	53.2 - 117	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: 281685

QC Batch: 86649 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73571 QC Preparation: 2011-11-05 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	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	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	270	mg/L	55.6	278	<5.56	97	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: 281690

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1850	mg/L	55.6	1390	430	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	1860	mg/L	55.6	1390	430	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: 281692

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3470	mg/L	111	2780	691	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
Chloride		1	3470	mg/L	111	2780	691	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: 281692

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	562	mg/L	111	555	25.4	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	562	mg/L	111	555	25.4	101	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: 86587 | Date Analyzed: 2011-11-18 | 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	4.54	91	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | 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	2011-11-18

Standard (CCV-1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-2)

QC Batch: 86651 Date Analyzed: 2011-11-05 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	4.81	96	90 - 110	2011-11-05

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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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TraceAnalysis, Inc.

155 McCutcheon, Ste. H El Paso, TX 79932
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 111109430

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Cell #: / Fax #: / E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Del Norte Dairy, P.O. Box 10, Mesquite, NM 88048	Linda Armstrong 575-233-3620
Project #:	Project Name: Daybreak Dairy
Project Location (including state): Del Norte Dairy, 12560 Stern Drive, Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
	~~126-4~~	1		X						X		X			
	~~126-4~~	1		X								X			
281688	126-5	1	500mL	X						X		X		11/4/11	14:12
↓	126-5	1	250mL	X								X		11/4/11	14:12
281689	126-7	1	500mL	X						X		X		11/4/11	14:18
↓	126-7	1	250mL	X								X		11/4/11	14:18
	~~126-9~~	1		X						X		X			
	~~126-9~~	1		X								X			
281690	126-12	1	500mL	X						X		X		11/4/11	12:55
↓	126-12	1	250mL	X								X		11/4/11	12:55
	~~126-13~~	1		X						X		X			
	~~126-13~~	1		X								X			
281691	Lagoon – 126	1	500mL	X						X		X		11/4/11	14:30
↓	Lagoon – 126 11-4-11	1	250mL	X								X		11/4/11	14:30

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	Total Kjeldhal 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	X				
							X	X						
							X		X	X				
							X	X						
							X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Melissa	11/4/11	15:20		11/4/11	1520
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/4/11	1700		11-5-11	10:30

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1/1°C bxt
Log-in Review JH

Remarks: NO_3, Cl, TDS done in ~~ref~~
Analize presserved only if unpresserved is unattainable
2.1°
PS: 4495964
Dry Weight Basis Required
TRRP Report Required

TRACEANALYSIS, INC.

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: November 28, 2011

Work Order: 11110716

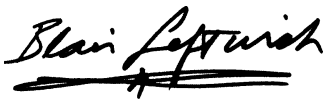
DP: 126
Project Location: 12560 Stern Dr., Mesquite, NM
Project Name: Del Norte Dairy

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
281789	126-4	water	2011-11-07	08:23	2011-11-07
281790	126-9	water	2011-11-07	10:15	2011-11-07
281791	126-13	water	2011-11-07	09:12	2011-11-07
281792	LRG-4585	water	2011-11-07	09:48	2011-11-07

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.

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



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

Report Contents

Case Narrative

Samples for project Del Norte Dairy were received by TraceAnalysis, Inc. on 2011-11-07 and assigned to work order 11110716. Samples for work order 11110716 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	73635	2011-11-09 at 03:57	86723	2011-11-09 at 03:57
NO3 (IC)	E 300.0	73635	2011-11-09 at 03:57	86723	2011-11-09 at 03:57
SO4 (IC)	E 300.0	73464	2011-11-16 at 12:06	86519	2011-11-16 at 12:06
TDS	SM 2540C	73417	2011-11-14 at 15:20	86462	2011-11-14 at 15:20
TDS	SM 2540C	73417	2011-11-14 at 15:20	86466	2011-11-14 at 15:20
TKN	E 351.3	73559	2011-11-21 at 10:00	86633	2011-11-21 at 14:09

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 11110716 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: 281789 - 126-4

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86723	Date Analyzed:	2011-11-09	Analyzed By:	JR
Prep Batch:	73635	Sample Preparation:	2011-11-09	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**581**	**581**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281789 - 126-4

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86723	Date Analyzed:	2011-11-09	Analyzed By:	JR
Prep Batch:	73635	Sample Preparation:	2011-11-09	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**18.2**	**18.2**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281789 - 126-4

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	86462	Date Analyzed:	2011-11-14	Analyzed By:	MD
Prep Batch:	73417	Sample Preparation:	2011-11-14	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	**2470**	**2470**	<5.00	mg/L	1	5.00	5	5

Sample: 281789 - 126-4

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86633	Date Analyzed:	2011-11-21	Analyzed By:	AH
Prep Batch:	73559	Sample Preparation:	2011-11-21	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	**3.92**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281790 - 126-9

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86723 Date Analyzed: 2011-11-09 Analyzed By: JR
Prep Batch: 73635 Sample Preparation: 2011-11-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1130**	**1130**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281790 - 126-9

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86723 Date Analyzed: 2011-11-09 Analyzed By: JR
Prep Batch: 73635 Sample Preparation: 2011-11-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**3.30**	**3.30**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281790 - 126-9

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86462 Date Analyzed: 2011-11-14 Analyzed By: MD
Prep Batch: 73417 Sample Preparation: 2011-11-14 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	**3470**	**3470**	<5.00	mg/L	1	5.00	5	5

Sample: 281790 - 126-9

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | Sample Preparation: 2011-11-21 | 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	**5.60**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281791 - 126-13

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86723 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73635 | Sample Preparation: 2011-11-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**735**	**735**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281791 - 126-13

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86723 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73635 | Sample Preparation: 2011-11-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**21.9**	**21.9**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281791 - 126-13

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | Prepared By: MD

continued ...

sample 281791 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**3060**	**3060**	<5.00	mg/L	1	5.00	5	5

Sample: 281791 - 126-13

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | Sample Preparation: 2011-11-21 | 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: 281792 - LRG-4585

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73464 | Sample Preparation: 2011-11-16 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**438**	**438**	<5.00	mg/L	10	5.00	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73464 | QC Preparation: 2011-11-16 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | 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: 86723 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73635 | QC Preparation: 2011-11-09 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86723 Date Analyzed: 2011-11-09 Analyzed By: JR
Prep Batch: 73635 QC Preparation: 2011-11-09 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281790

QC Batch: 86462 Date Analyzed: 2011-11-14 Analyzed By: MD
Prep Batch: 73417 QC Preparation: 2011-11-14 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3250	3470	mg/L	1	6	10

Duplicate (1) Duplicated Sample: 281932

QC Batch: 86466 Date Analyzed: 2011-11-14 Analyzed By: MD
Prep Batch: 73417 QC Preparation: 2011-11-14 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1580	1480	mg/L	1	6	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	986	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	LCSD 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	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: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	934	mg/L	1	1000	<5.00	93	90 - 110	5	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: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73464 | QC Preparation: 2011-11-16 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		1	25.2	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: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	36.5	mg/L	1	50.0	<2.17	73	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	39.5	mg/L	1	50.0	<2.17	79	68.6 - 108	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: 86723 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73635 | QC Preparation: 2011-11-09 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86723 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73635 | QC Preparation: 2011-11-09 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.85	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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.

Matrix Spike (MS-1) Spiked Sample: 279641

QC Batch: 86519 Date Analyzed: 2011-11-16 Analyzed By: JR
Prep Batch: 73464 QC Preparation: 2011-11-16 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	34.5	mg/L	1.25	31.2	2.85	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
Sulfate		1	34.5	mg/L	1.25	31.2	2.85	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: 281791

QC Batch: 86633 Date Analyzed: 2011-11-21 Analyzed By: AH
Prep Batch: 73559 QC Preparation: 2011-11-21 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	38.4	mg/L	1	50.0	<2.17	77	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	39.5	mg/L	1	50.0	<2.17	79	53.2 - 117	3	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: 281789

QC Batch: 86723 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73635 | QC Preparation: 2011-11-09 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2060	mg/L	55.6	1390	581	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	2060	mg/L	55.6	1390	581	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: 281789

QC Batch: 86723 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73635 | QC Preparation: 2011-11-09 | 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.

Calibration Standards

Standard (CCV-1)

QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.3	93	90 - 110	2011-11-16

Standard (CCV-2)

QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.4	94	90 - 110	2011-11-16

Standard (ICV-1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | 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	2011-11-21

Standard (CCV-1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | 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	4.51	90	85 - 115	2011-11-21

Standard (CCV-1)

QC Batch: 86723 | Date Analyzed: 2011-11-09 | 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	24.5	98	90 - 110	2011-11-09

Standard (CCV-1)

QC Batch: 86723 | Date Analyzed: 2011-11-09 | 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	4.84	97	90 - 110	2011-11-09

Standard (CCV-2)

QC Batch: 86723 | Date Analyzed: 2011-11-09 | 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	24.5	98	90 - 110	2011-11-09

Standard (CCV-2)

QC Batch: 86723 | Date Analyzed: 2011-11-09 | 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	4.84	97	90 - 110	2011-11-09

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

1111071L

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0716

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Cell #: Fax #: E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Del Norte Dairy, P.O. Box 10, Mesquite, NM 88048	
Project #:	Project Name: Daybreak Dairy
Project Location (including state): Del Norte Dairy, 12560 Stern Drive, Mesquite, NM	Sampler Signature: Angel M. Ramos

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
281789-1	126-4	1	500ml	X						X		X		11-7-11	08:25
-2	126-4	1	250ml	X								X		11-7-11	08:27
	126-5	1	500ml	X						X		X			
	126-5	1	500ml	X								X			
	126-7	1	500ml	X						X		X			
	126-7	1	500ml	X								X			
281790-1	126-9	1	500ml	X						X		X		11-7-11	10:15
-2	126-9	1	250ml	X								X		11-7-11	10:15
	126-12	1	500ml	X						X		X			
	126-12	1	500ml	X								X			
281791-1	126-13	1	500ml	X						X		X		11/7/11	9:12
-2	126-13	1	250ml	X								X		11/7/11	9:12
	Lagoon	1	500ml	X						X		X			
	Lagoon	1	500ml	X								X			
281792	ARG-4585	1	125	X								X		11/7/11	9:48

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	Total Kjeldhal Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Sulfate		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	X				
							X	X						
							X		X	X				
							X	X						
							X		X	X				
							X	X						
							X		X	X				
							X		X	X	X			

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Angel M. Ramos	11-7-11	14:03		11/7/11	14:07
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/7/11	1700		11/8/11	9:15

Lab Use Only
Intact Y / N
Headspace Y / N
Temp. 1.2 2.7 3.3
Log-in Review

Remarks: NO_3, Cl, TDS, SO_4 done in CARRY IN

Dry Weight Basis Required
TRRP Report Required

11-7-11 15:15 A.M.

(7)

TRACEANALYSIS, INC.

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: November 28, 2011

Work Order: 11110826

DP: 42
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
281930	42-12	water	2011-11-08	14:49	2011-11-08
281931	42-10	water	2011-11-08	15:20	2011-11-08
281932	42-11	water	2011-11-08	14:15	2011-11-08

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.

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

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

Report Contents

Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2011-11-08 and assigned to work order 11110826. Samples for work order 11110826 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	73640	2011-11-10 at 04:30	86728	2011-11-10 at 04:30
NO3 (IC)	E 300.0	73640	2011-11-10 at 04:30	86728	2011-11-10 at 04:30
TDS	SM 2540C	73417	2011-11-14 at 15:20	86466	2011-11-14 at 15:20
TKN	E 351.3	73563	2011-11-21 at 12:01	86641	2011-11-21 at 16:22

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 11110826 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: 281930 - 42-12

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**331**	**331**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281930 - 42-12

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | Sample Preparation: 2011-11-10 | 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: 281930 - 42-12

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | 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	**730**	**730**	<5.00	mg/L	1	5.00	5	5

Sample: 281930 - 42-12

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | Sample Preparation: 2011-11-21 | 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: 281931 - 42-10

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**425**	**425**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281931 - 42-10

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | Sample Preparation: 2011-11-10 | 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: 281931 - 42-10

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | 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	**1510**	**1510**	<5.00	mg/L	1	5.00	5	5

Sample: 281931 - 42-10

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | Sample Preparation: 2011-11-21 | 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: 281932 - 42-11

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**334**	**334**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281932 - 42-11

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	**1.97**	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281932 - 42-11

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | Prepared By: MD

continued ...

sample 281932 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		[1]	**1480**	**1480**	<5.00	mg/L	1	5.00	5	5

Sample: 281932 - 42-11

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86641	Date Analyzed:	2011-11-21	Analyzed By:	AH
Prep Batch:	73563	Sample Preparation:	2011-11-21	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

Method Blanks

Method Blank (1)

QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | QC Preparation: 2011-11-21 | 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: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | QC Preparation: 2011-11-10 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | QC Preparation: 2011-11-10 | Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281932

QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1580	1480	mg/L	1	6	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	934	mg/L	1	1000	<5.00	93	90 - 110	5	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: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	40.6	mg/L	1	50.0	<2.17	81	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	40.0	mg/L	1	50.0	<2.17	80	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: 86728 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73640 | QC Preparation: 2011-11-10 | 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86728 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73640 QC Preparation: 2011-11-10 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.83	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.

Matrix Spike (MS-1) Spiked Sample: 281932

QC Batch: 86641 Date Analyzed: 2011-11-21 Analyzed By: AH
Prep Batch: 73563 QC Preparation: 2011-11-21 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	41.9	mg/L	1	50.0	<2.17	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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<2.17	87	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: 281932

QC Batch: 86728 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73640 QC Preparation: 2011-11-10 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1710	mg/L	55.6	1390	334	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
Chloride		1	1720	mg/L	55.6	1390	334	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: 281932

QC Batch: 86728 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73640 QC Preparation: 2011-11-10 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	271	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	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	271	mg/L	55.6	278	<5.56	97	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: 86641 | Date Analyzed: 2011-11-21 | 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	2011-11-21

Standard (CCV-1)

QC Batch: 86641 | Date Analyzed: 2011-11-21 | 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	4.68	94	85 - 115	2011-11-21

Standard (CCV-1)

QC Batch: 86728 | Date Analyzed: 2011-11-10 | 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	23.9	96	90 - 110	2011-11-10

Standard (CCV-1)

QC Batch: 86728 | Date Analyzed: 2011-11-10 | 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	4.73	95	90 - 110	2011-11-10

Standard (CCV-2)

QC Batch: 86728 Date Analyzed: 2011-11-10 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	23.8	95	90 - 110	2011-11-10

Standard (CCV-2)

QC Batch: 86728 Date Analyzed: 2011-11-10 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	4.73	95	90 - 110	2011-11-10

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111026

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Cell #: Fax #: E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048	Isaac Dominguez 575-649-7040
Project #:	Project Name: Dominguez Dairy #2
Project Location (including state): Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
28193-1	42-12	1	500 mL	X						X		X		11-8-11	14:49
30-2	42-12	1	250 mL	X								X		11-8-11	14:49
31-1	42-~~13~~ 10	1	500 mL	X						X		X		11-8-11	15:20
31-2	42-~~13~~ 10	1	250 mL	X								X		11-8-11	15:20
32-1	~~begeon 42~~ 42-11	1	500 mL	X						X		X		11-8-11	14:15
32-2	~~begeon 42~~ 42-11	1	250 mL	X								X		11-8-11	14:15

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	Total Kjeldhal Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
28193-1								X	X						
30-2								X		X	X				
31-1								X	X						
31-2								X		X	X				
32-1								X	X						
32-2								X		X	X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	11-8-11	16:00		11/8/11	1600
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
	11/8/11	1630		11/9/11	9:00 4.4

Lab Use Only
Intact (Y) N
Headspace Y / N
Temp 3/3°C 12
Log-in Review

Remarks: Cl, NO3, TDS in EP
Analize preserved only if unpresserved is unattainable
2 ice
Dry Weight Basis Required
TRRP Report Required
3 sets

TRACEANALYSIS, INC.

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: November 28, 2011

Work Order: 11110432

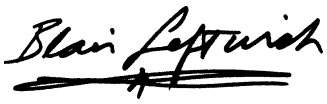
DP: 624
Project Location: 13950 Stern Dr., Mesquite, NM
Project Name: Dominguez Dairy #1

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
281696	624-01	water	2011-11-04	10:05	2011-11-04
281697	624-02	water	2011-11-04	09:45	2011-11-04
281698	624-05	water	2011-11-04	11:17	2011-11-04
281699	624-06	water	2011-11-04	10:23	2011-11-04
281700	Lagoon 624	water	2011-11-04	10:20	2011-11-04

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.

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



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

Report Contents

Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2011-11-04 and assigned to work order 11110432. Samples for work order 11110432 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	73574	2011-11-06 at 01:07	86652	2011-11-21 at 18:25
Chloride (IC)	E 300.0	73664	2011-11-23 at 19:52	86752	2011-11-23 at 19:52
NO3 (IC)	E 300.0	73571	2011-11-05 at 09:37	86649	2011-11-05 at 09:37
NO3 (IC)	E 300.0	73572	2011-11-05 at 16:41	86650	2011-11-05 at 16:41
NO3 (IC)	E 300.0	73575	2011-11-06 at 05:05	86653	2011-11-06 at 05:05
TDS	SM 2540C	73353	2011-11-10 at 15:55	86396	2011-11-10 at 15:55
TDS	SM 2540C	73369	2011-11-11 at 13:05	86417	2011-11-11 at 13:05
TKN	E 351.3	73518	2011-11-18 at 10:32	86588	2011-11-18 at 13:19

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 11110432 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: 281696 - 624-01

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1430**	**1430**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281696 - 624-01

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**10.8**	**10.8**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281696 - 624-01

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3460**	**3460**	<5.00	mg/L	1	5.00	5	5

Sample: 281696 - 624-01

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | Sample Preparation: 2011-11-18 | 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	**5.60**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281697 - 624-02

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86652 Date Analyzed: 2011-11-21 Analyzed By: JR
Prep Batch: 73574 Sample Preparation: 2011-11-06 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1300**	**1300**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281697 - 624-02

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86650 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73572 Sample Preparation: 2011-11-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**10.7**	**10.7**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281697 - 624-02

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86396 Date Analyzed: 2011-11-10 Analyzed By: MD
Prep Batch: 73353 Sample Preparation: 2011-11-10 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	**4060**	**4060**	<5.00	mg/L	1	5.00	5	5

Sample: 281697 - 624-02

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | Sample Preparation: 2011-11-18 | 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	**3.50**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281698 - 624-05

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**385**	**385**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281698 - 624-05

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**2.58**	**2.58**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281698 - 624-05

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | Prepared By: MD

continued ...

sample 281698 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**1980**	**1980**	<5.00	mg/L	1	5.00	5	5

Sample: 281698 - 624-05

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86588	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73518	Sample Preparation:	2011-11-18	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	**4.20**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281699 - 624-06

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86652	Date Analyzed:	2011-11-21	Analyzed By:	JR
Prep Batch:	73574	Sample Preparation:	2011-11-06	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1040**	**1040**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281699 - 624-06

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86650	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73572	Sample Preparation:	2011-11-05	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**29.5**	**29.5**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281699 - 624-06

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86417 Date Analyzed: 2011-11-11 Analyzed By: MD
Prep Batch: 73369 Sample Preparation: 2011-11-11 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	**2860**	**2860**	<5.00	mg/L	1	5.00	5	5

Sample: 281699 - 624-06

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86588 Date Analyzed: 2011-11-18 Analyzed By: AH
Prep Batch: 73518 Sample Preparation: 2011-11-18 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	**8.68**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281700 - Lagoon 624

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR
Prep Batch: 73664 Sample Preparation: 2011-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	1	**5890**	**5890**	<250	mg/L	500	250	2.5	0.5

Sample: 281700 - Lagoon 624

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281700 - Lagoon 624

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | 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	**27200**	**27200**	<5.00	mg/L	1	5.00	5	5

Sample: 281700 - Lagoon 624

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | Sample Preparation: 2011-11-18 | 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	**147**	**147**	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | QC Preparation: 2011-11-18 | 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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86652 Date Analyzed: 2011-11-21 Analyzed By: JR
Prep Batch: 73574 QC Preparation: 2011-11-06 Prepared By: JR

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

Method Blank (1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

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

Method Blank (1)

QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR
Prep Batch: 73664 QC Preparation: 2011-11-23 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281698

QC Batch: 86396 Date Analyzed: 2011-11-10 Analyzed By: MD
Prep Batch: 73353 QC Preparation: 2011-11-10 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2000	1980	mg/L	1	1	10

Duplicate (1) Duplicated Sample: 281691

QC Batch:	86417	Date Analyzed:	2011-11-11	Analyzed By:	MD
Prep Batch:	73369	QC Preparation:	2011-11-11	Prepared By:	MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	5490	5250	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		[1]	982	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		[1]	958	mg/L	1	1000	<5.00	96	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: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		[1]	983	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		[1]	979	mg/L	1	1000	<5.00	98	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: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		[2]	42.1	mg/L	1	50.0	<2.17	84	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	39.5	mg/L	1	50.0	<2.17	79	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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
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: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.84	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | QC Preparation: 2011-11-06 | 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

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	4.81	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: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR
Prep Batch: 73664 QC Preparation: 2011-11-23 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	26.3	mg/L	1	25.0	<0.500	105	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	26.2	mg/L	1	25.0	<0.500	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: 281696

QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	50.7	mg/L	1	50.0	5.6	90	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	44.1	mg/L	1	50.0	5.6	77	53.2 - 117	14	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: 281685

QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	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	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	270	mg/L	55.6	278	<5.56	97	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: 281690

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	281	mg/L	55.6	278	19.3	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	282	mg/L	55.6	278	19.3	94	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: 281698

QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1760	mg/L	55.6	1390	385	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
Chloride		1	1760	mg/L	55.6	1390	385	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: 281481

QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	267	mg/L	55.6	278	<5.56	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	267	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: 281695

QC Batch: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | QC Preparation: 2011-11-23 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	Qs	1	2460	mg/L	55.6	1390	873	114	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	Qs	1	2460	mg/L	55.6	1390	873	114	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: 86588 | Date Analyzed: 2011-11-18 | 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	4.84	97	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86588 | Date Analyzed: 2011-11-18 | 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	5.15	103	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	4.83	97	90 - 110	2011-11-05

Standard (CCV-2)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86652 Date Analyzed: 2011-11-21 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	2011-11-21

Standard (CCV-2)

QC Batch: 86652 Date Analyzed: 2011-11-21 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	24.4	98	90 - 110	2011-11-21

Standard (CCV-1)

QC Batch: 86653 Date Analyzed: 2011-11-06 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	4.83	97	90 - 110	2011-11-06

Standard (CCV-2)

QC Batch: 86653 Date Analyzed: 2011-11-06 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	4.84	97	90 - 110	2011-11-06

Standard (CCV-1)

QC Batch: 86752 Date Analyzed: 2011-11-23 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	2011-11-23

Standard (CCV-2)

QC Batch: 86752 Date Analyzed: 2011-11-23 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	2011-11-23

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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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Lubbock, TX 79424
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Fax (806) 794-1298

TraceAnalysis, Inc.

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

Page 2 of ___

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0432

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: / Fax #: / E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048	Isaac Dominguez 575-649-7040
Project #:	Project Name: Dominguez Dairy #1
Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
281696-1	624-01	1	500ml	X						X		X		11/4/11	10:05								X	X						
-2	624-01	1	250ml	X								X		11/4/11	10:05								X		X	X				
97-1	624-02	1	500ml	X						X		X		11/4/11	9:45								X	X						
92-2	624-02	1	250ml	X								X		11/4/11	9:45								X		X	X				
	~~624-04~~	1		X						X		X											X	X						
	~~624-04~~	1		X								X											X		X	X				
281698-1	624-05	1	500ml	X						X		X		11/4/11	11:17								X	X						
-2	624-05	1	250ml	X								X		11/4/11	11:17								X		X	X				
99-1	624-06	1	500ml	X						X		X		11/4/11	10:23								X	X						
99-2	624-06	1	250ml	X								X		11/4/11	10:23								X		X	X				
	~~624-07~~	1		X						X		X											X	X						
	624-07	1		X								X											X		X	X				
	624-08	1		X						X		X											X	X						
	~~624-08~~	1		X								X											X		X	X				
281700-1	Lagoon 624	1	500ml	X						X		X		11/4/11	10:20								X	X						
-2	Lagoon 624	1	250ml	X								X		11/4/11	10:20								X		X	X				

Relinquished By: Thorsten Meinus	Date: 11/4/11	Time: 15:20	Received By:
Relinquished By:	Date: 11/4/11	Time: 1700	Received at Laboratory By: Brenda Ward Trace Lubbock

Date: 11/4/11 Time: 1520
Date: 11/5/11 Time: 10:30

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1.1°C
Log-in Review

Remarks: NO_3, Cl, TDS, Dom inf
Analize presserved only if unpresserved is unattainable
CARLYN
LS 46975966
Dry Weight Basis Required
TRRP Report Required

(1)

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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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

Isaac Dominguez
Dominguez Dairy #1
13950 Stern Drive
P.O. Box 21
Mesquite, NM, 88048

Report Date: November 28, 2011

Work Order: 11110432

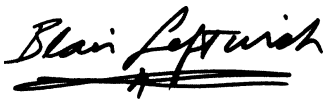
DP: 624
Project Location: 13950 Stern Dr., Mesquite, NM
Project Name: Dominguez Dairy #1

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
281696	624-01	water	2011-11-04	10:05	2011-11-04
281697	624-02	water	2011-11-04	09:45	2011-11-04
281698	624-05	water	2011-11-04	11:17	2011-11-04
281699	624-06	water	2011-11-04	10:23	2011-11-04
281700	Lagoon 624	water	2011-11-04	10:20	2011-11-04

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.

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



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

Report Contents

Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2011-11-04 and assigned to work order 11110432. Samples for work order 11110432 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	73574	2011-11-06 at 01:07	86652	2011-11-21 at 18:25
Chloride (IC)	E 300.0	73664	2011-11-23 at 19:52	86752	2011-11-23 at 19:52
NO3 (IC)	E 300.0	73571	2011-11-05 at 09:37	86649	2011-11-05 at 09:37
NO3 (IC)	E 300.0	73572	2011-11-05 at 16:41	86650	2011-11-05 at 16:41
NO3 (IC)	E 300.0	73575	2011-11-06 at 05:05	86653	2011-11-06 at 05:05
TDS	SM 2540C	73353	2011-11-10 at 15:55	86396	2011-11-10 at 15:55
TDS	SM 2540C	73369	2011-11-11 at 13:05	86417	2011-11-11 at 13:05
TKN	E 351.3	73518	2011-11-18 at 10:32	86588	2011-11-18 at 13:19

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 11110432 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: 281696 - 624-01

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1430**	**1430**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281696 - 624-01

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**10.8**	**10.8**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281696 - 624-01

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3460**	**3460**	<5.00	mg/L	1	5.00	5	5

Sample: 281696 - 624-01

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | Sample Preparation: 2011-11-18 | 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	**5.60**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281697 - 624-02

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86652 Date Analyzed: 2011-11-21 Analyzed By: JR
Prep Batch: 73574 Sample Preparation: 2011-11-06 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1300**	**1300**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281697 - 624-02

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86650 Date Analyzed: 2011-11-05 Analyzed By: JR
Prep Batch: 73572 Sample Preparation: 2011-11-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**10.7**	**10.7**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281697 - 624-02

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86396 Date Analyzed: 2011-11-10 Analyzed By: MD
Prep Batch: 73353 Sample Preparation: 2011-11-10 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	**4060**	**4060**	<5.00	mg/L	1	5.00	5	5

Sample: 281697 - 624-02

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | Sample Preparation: 2011-11-18 | 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	**3.50**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281698 - 624-05

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**385**	**385**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281698 - 624-05

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**2.58**	**2.58**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281698 - 624-05

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | Prepared By: MD

continued ...

sample 281698 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**1980**	**1980**	<5.00	mg/L	1	5.00	5	5

Sample: 281698 - 624-05

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86588	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73518	Sample Preparation:	2011-11-18	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	**4.20**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281699 - 624-06

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86652	Date Analyzed:	2011-11-21	Analyzed By:	JR
Prep Batch:	73574	Sample Preparation:	2011-11-06	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1040**	**1040**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281699 - 624-06

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86650	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73572	Sample Preparation:	2011-11-05	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**29.5**	**29.5**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281699 - 624-06

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86417 Date Analyzed: 2011-11-11 Analyzed By: MD
Prep Batch: 73369 Sample Preparation: 2011-11-11 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	**2860**	**2860**	<5.00	mg/L	1	5.00	5	5

Sample: 281699 - 624-06

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86588 Date Analyzed: 2011-11-18 Analyzed By: AH
Prep Batch: 73518 Sample Preparation: 2011-11-18 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	**8.68**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281700 - Lagoon 624

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR
Prep Batch: 73664 Sample Preparation: 2011-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	1	**5890**	**5890**	<250	mg/L	500	250	2.5	0.5

Sample: 281700 - Lagoon 624

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281700 - Lagoon 624

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | 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	**27200**	**27200**	<5.00	mg/L	1	5.00	5	5

Sample: 281700 - Lagoon 624

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | Sample Preparation: 2011-11-18 | 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	**147**	**147**	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | QC Preparation: 2011-11-18 | 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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86652 Date Analyzed: 2011-11-21 Analyzed By: JR
Prep Batch: 73574 QC Preparation: 2011-11-06 Prepared By: JR

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

Method Blank (1)

QC Batch: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

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

Method Blank (1)

QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR
Prep Batch: 73664 QC Preparation: 2011-11-23 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281698

QC Batch: 86396 Date Analyzed: 2011-11-10 Analyzed By: MD
Prep Batch: 73353 QC Preparation: 2011-11-10 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2000	1980	mg/L	1	1	10

Duplicate (1) Duplicated Sample: 281691

QC Batch:	86417	Date Analyzed:	2011-11-11	Analyzed By:	MD
Prep Batch:	73369	QC Preparation:	2011-11-11	Prepared By:	MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	5490	5250	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		[1]	982	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		[1]	958	mg/L	1	1000	<5.00	96	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: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		[1]	983	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		[1]	979	mg/L	1	1000	<5.00	98	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: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		[2]	42.1	mg/L	1	50.0	<2.17	84	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	39.5	mg/L	1	50.0	<2.17	79	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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
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: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.84	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | QC Preparation: 2011-11-06 | 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86653 Date Analyzed: 2011-11-06 Analyzed By: JR
Prep Batch: 73575 QC Preparation: 2011-11-06 Prepared By: JR

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	4.81	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: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR
Prep Batch: 73664 QC Preparation: 2011-11-23 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	26.3	mg/L	1	25.0	<0.500	105	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	26.2	mg/L	1	25.0	<0.500	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: 281696

QC Batch: 86588 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73518 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	50.7	mg/L	1	50.0	5.6	90	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	44.1	mg/L	1	50.0	5.6	77	53.2 - 117	14	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: 281685

QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	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	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	270	mg/L	55.6	278	<5.56	97	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: 281690

QC Batch: 86650 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73572 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	281	mg/L	55.6	278	19.3	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	282	mg/L	55.6	278	19.3	94	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: 281698

QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1760	mg/L	55.6	1390	385	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
Chloride		1	1760	mg/L	55.6	1390	385	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: 281481

QC Batch: 86653 | Date Analyzed: 2011-11-06 | Analyzed By: JR
Prep Batch: 73575 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	267	mg/L	55.6	278	<5.56	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	267	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: 281695

QC Batch: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | QC Preparation: 2011-11-23 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	Qs	1	2460	mg/L	55.6	1390	873	114	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	Qs	1	2460	mg/L	55.6	1390	873	114	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: 86588 | Date Analyzed: 2011-11-18 | 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	4.84	97	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86588 | Date Analyzed: 2011-11-18 | 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	5.15	103	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	4.83	97	90 - 110	2011-11-05

Standard (CCV-2)

QC Batch: 86650 Date Analyzed: 2011-11-05 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	2011-11-05

Standard (CCV-1)

QC Batch: 86652 Date Analyzed: 2011-11-21 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	2011-11-21

Standard (CCV-2)

QC Batch: 86652 Date Analyzed: 2011-11-21 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	24.4	98	90 - 110	2011-11-21

Standard (CCV-1)

QC Batch: 86653 Date Analyzed: 2011-11-06 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	4.83	97	90 - 110	2011-11-06

Standard (CCV-2)

QC Batch: 86653 Date Analyzed: 2011-11-06 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	4.84	97	90 - 110	2011-11-06

Standard (CCV-1)

QC Batch: 86752 Date Analyzed: 2011-11-23 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	2011-11-23

Standard (CCV-2)

QC Batch: 86752 Date Analyzed: 2011-11-23 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	2011-11-23

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

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 2 of ___

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111 0432

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #: / Fax #: / E-mail: vajala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048	Isaac Dominguez 575-649-7040
Project #:	Project Name: Dominguez Dairy #1
Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM	Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
281696-1	624-01	1	500ml	X						X		X		11/4/11	10:05								X	X						
-2	624-01	1	250ml	X								X		11/4/11	10:05								X		X	X				
97-1	624-02	1	500ml	X						X		X		11/4/11	9:45								X	X						
92-2	624-02	1	250ml	X								X		11/4/11	9:45								X		X	X				
	~~624-04~~	1		X						X		X											X	X						
	~~624-04~~	1		X								X											X		X	X				
281698-1	624-05	1	500ml	X						X		X		11/4/11	11:17								X	X						
-2	624-05	1	250ml	X								X		11/4/11	11:17								X		X	X				
99-1	624-06	1	500ml	X						X		X		11/4/11	10:23								X	X						
99-2	624-06	1	250ml	X								X		11/4/11	10:23								X		X	X				
	~~624-07~~	1		X						X		X											X	X						
	624-07	1		X								X											X		X	X				
	624-08	1		X						X		X											X	X						
	~~624-08~~	1		X								X											X		X	X				
281700-1	Lagoon 624	1	500ml	X						X		X		11/4/11	10:20								X	X						
-2	Lagoon 624	1	250ml	X								X		11/4/11	10:20								X		X	X				

Relinquished By: Thorsten Meinus	Date: 11/4/11	Time: 15:20	Received By:
Relinquished By:	Date: 11/4/11	Time: 1700	Received at Laboratory By: Brenda Ward Trace Lubbock

Date: 11/4/11 Time: 1520
Date: 11/5/11 Time: 10:30

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 1.1°C
Log-in Review

Remarks: NO_3, Cl, TDS, Dom inf
Analize presserved only if unpresserved is unattainable
CARLYN
LS 46975966
Dry Weight Basis Required
TRRP Report Required

(1)

TRACEANALYSIS, INC.

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

Tim Hyde
Bright Star Dairy
13520 Stern Dr.
P.O. Box 167
Mesquite, NM, 88048

Report Date: November 28, 2011

Work Order: 11110431

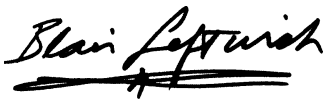
DP: 340
Project Location: 13520 Stern Dr., El Paso, TX
Project Name: Bright Star Dairy

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
281692	340-1	water	2011-11-04	12:09	2011-11-04
281693	340-2	water	2011-11-04	13:18	2011-11-04
281694	Lagoon	water	2011-11-04	12:05	2011-11-04
281695	LRG 00953	water	2011-11-04	12:25	2011-11-04

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.

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



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

Report Contents

Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2011-11-04 and assigned to work order 11110431. Samples for work order 11110431 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	73573	2011-11-05 at 20:54	86651	2011-11-05 at 20:54
NO3 (IC)	E 300.0	73571	2011-11-05 at 09:37	86649	2011-11-05 at 09:37
NO3 (IC)	E 300.0	73573	2011-11-05 at 20:54	86651	2011-11-05 at 20:54
NO3 (IC)	E 300.0	73574	2011-11-06 at 01:07	86652	2011-11-21 at 18:25
SO4 (IC)	E 300.0	73664	2011-11-23 at 19:52	86752	2011-11-23 at 19:52
TDS	SM 2540C	73353	2011-11-10 at 15:55	86396	2011-11-10 at 15:55
TKN	E 351.3	73517	2011-11-18 at 10:31	86587	2011-11-18 at 13:18

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 11110431 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: 281692 - 340-1

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86651	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73573	Sample Preparation:	2011-11-05	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**691**	**691**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281692 - 340-1

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86649	Date Analyzed:	2011-11-05	Analyzed By:	JR
Prep Batch:	73571	Sample Preparation:	2011-11-05	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**26.6**	**26.6**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281692 - 340-1

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	86396	Date Analyzed:	2011-11-10	Analyzed By:	MD
Prep Batch:	73353	Sample Preparation:	2011-11-10	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	**2910**	**2910**	<5.00	mg/L	1	5.00	5	5

Sample: 281692 - 340-1

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86587	Date Analyzed:	2011-11-18	Analyzed By:	AH
Prep Batch:	73517	Sample Preparation:	2011-11-18	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	**4.34**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281693 - 340-2

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**755**	**755**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281693 - 340-2

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**75.0**	**75.0**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281693 - 340-2

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3620**	**3620**	<5.00	mg/L	1	5.00	5	5

Sample: 281693 - 340-2

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | Sample Preparation: 2011-11-18 | 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	**5.74**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281694 - Lagoon

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1330**	**1330**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281694 - Lagoon

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | Sample Preparation: 2011-11-06 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	U	1	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281694 - Lagoon

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | Prepared By: MD

continued ...

sample 281694 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**4630**	**4630**	<5.00	mg/L	1	5.00	5	5

Sample: 281694 - Lagoon

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | Sample Preparation: 2011-11-18 | 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	**200**	**200**	<2.17	mg/L	1	2.17	10	2.17

Sample: 281695 - LRG 00953

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | Sample Preparation: 2011-11-23 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**470**	**470**	<25.0	mg/L	50	25.0	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | 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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | QC Preparation: 2011-11-06 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | QC Preparation: 2011-11-23 | Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281698

QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2000	1980	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86396 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	982	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	958	mg/L	1	1000	<5.00	96	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: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<2.17	91	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: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
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: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.2	mg/L	1	25.0	<0.500	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: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.84	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.83	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: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.85	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.83	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: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | QC Preparation: 2011-11-23 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	25.9	mg/L	1	25.0	<0.500	104	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
Sulfate		1	25.8	mg/L	1	25.0	<0.500	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: 281694

QC Batch: 86587 | Date Analyzed: 2011-11-18 | Analyzed By: AH
Prep Batch: 73517 | QC Preparation: 2011-11-18 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	231	mg/L	1	50.0	200	62	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	235	mg/L	1	50.0	200	70	53.2 - 117	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: 281685

QC Batch: 86649 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73571 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	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	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	270	mg/L	55.6	278	<5.56	97	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: 281692

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	3470	mg/L	111	2780	691	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
Chloride		1	3470	mg/L	111	2780	691	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: 281692

QC Batch: 86651 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73573 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	562	mg/L	111	555	25.4	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	562	mg/L	111	555	25.4	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: 281698

QC Batch: 86652 | Date Analyzed: 2011-11-21 | Analyzed By: JR
Prep Batch: 73574 | QC Preparation: 2011-11-06 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	271	mg/L	55.6	278	<5.56	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	271	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: 281695

QC Batch: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | QC Preparation: 2011-11-23 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1990	mg/L	55.6	1390	470	109	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
Sulfate		1	1990	mg/L	55.6	1390	470	109	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: 86587 | Date Analyzed: 2011-11-18 | 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	4.54	91	85 - 115	2011-11-18

Standard (CCV-1)

QC Batch: 86587 | Date Analyzed: 2011-11-18 | 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	2011-11-18

Standard (CCV-1)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86649 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-1)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86651 | Date Analyzed: 2011-11-05 | 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	4.81	96	90 - 110	2011-11-05

Standard (CCV-1)

QC Batch: 86652 | Date Analyzed: 2011-11-21 | 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	4.81	96	90 - 110	2011-11-21

Standard (CCV-2)

QC Batch: 86652 Date Analyzed: 2011-11-21 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	4.83	97	90 - 110	2011-11-21

Standard (CCV-1)

QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-11-23

Standard (CCV-2)

QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-11-23

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

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 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111043

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
Fax #:
E-mail: vayala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Bright Star Dairy, P.O. Box 167, Mesquite, NM 88048
Tim Hyde 575-233-2029
Project #:
Project Name: Bright Star Dairy
Project Location (including state): Bright Star Dairy, 13520 Stern Drive, Mesquite, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
281692-1	340-1	1	500ml	X						X		X		11/4/11	12:04
↓ -2	340-1	1	250ml	X								X		11/4/11	12:09
281693-1	340-2	1	500ml	X						X		X		11/4/11	13:18
↓ -2	340-2	1	250ml	X								X		11/4/11	13:18
~~281694-1~~	~~70/86/340~~	~~1~~		~~X~~						~~X~~		~~X~~			
~~↓ -2~~	70/86/340	1		X								X			
	86/340	1		X						X		X			
	~~86/340~~	~~1~~		~~X~~								~~X~~			
281694-1	Lagoon	1	500ml	X						X		X		11/4/11	12:05
↓ -2	Lagoon	1	250ml	X								X		11/4/11	12:05
281695	LRG 00953	1	125ml	X								X		11/4/11	12:25

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	Total Kjeldhal Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Sulfate	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	X			
											X		

Relinquished By: Reinus Date: 11/4/11 Time: 15:20
Received By: Date: 11/4/11 Time: 15:20
Relinquished By: Date: 11/4/11 Time: 1700
Received at Laboratory By: Brenda Ward Trace Lubbock Date: 11/5/11 Time: 10:30

Lab Use Only
Intact (Y) I N
Headspace Y I (N)
Temp 1/1.6 Sample
Log-in Review

Remarks: NO_3, Cl, TDS, Sulfate in ppm
Analize presserved only if unpresserved is unattainable
CA-Dry IN
Dry Weight Basis Required
TRRP Report Required
PS HA 25966

TRACEANALYSIS, INC.

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: November 28, 2011

Work Order: 11110714

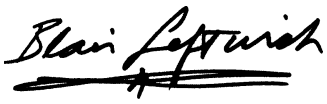
DP: 70
Project Location: 13090 Stern Drive, Mesquite, NM
Project Name: Mountain View Dairy

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
281781	70-01	water	2011-11-07	07:57	2011-11-07
281782	70-02	water	2011-11-07	09:28	2011-11-07
281783	70-03	water	2011-11-07	11:03	2011-11-07
281784	Lagoon	water	2011-11-07	08:20	2011-11-07
281785	LRG 00457	water	2011-11-07	09:55	2011-11-07
281786	LRG 952	water	2011-11-07	10:26	2011-11-07

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.

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



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

Report Contents

Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2011-11-07 and assigned to work order 11110714. Samples for work order 11110714 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	73630	2011-11-08 at 19:46	86718	2011-11-08 at 19:46
Chloride (IC)	E 300.0	73631	2011-11-08 at 23:59	86720	2011-11-08 at 23:59
NO3 (IC)	E 300.0	73630	2011-11-08 at 19:46	86718	2011-11-08 at 19:46
NO3 (IC)	E 300.0	73631	2011-11-08 at 23:59	86720	2011-11-08 at 23:59
SO4 (IC)	E 300.0	73464	2011-11-16 at 12:06	86519	2011-11-16 at 12:06
SO4 (IC)	E 300.0	73664	2011-11-23 at 19:52	86752	2011-11-23 at 19:52
TDS	SM 2540C	73369	2011-11-11 at 13:05	86417	2011-11-11 at 13:05
TDS	SM 2540C	73417	2011-11-14 at 15:20	86462	2011-11-14 at 15:20
TKN	E 351.3	73559	2011-11-21 at 10:00	86633	2011-11-21 at 14:09

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 11110714 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: 281781 - 70-01

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**622**	**622**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281781 - 70-01

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**21.1**	**21.1**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281781 - 70-01

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | 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	**1860**	**1860**	<5.00	mg/L	1	5.00	5	5

Sample: 281781 - 70-01

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | Sample Preparation: 2011-11-21 | 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	**5.18**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281782 - 70-02

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**828**	**828**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281782 - 70-02

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**37.7**	**37.7**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281782 - 70-02

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | 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	**2790**	**2790**	<5.00	mg/L	1	5.00	5	5

Sample: 281782 - 70-02

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | Sample Preparation: 2011-11-21 | 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: 281783 - 70-03

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**3270**	**3270**	<50.0	mg/L	100	50.0	2.5	0.5

Sample: 281783 - 70-03

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**61.6**	**61.6**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281783 - 70-03

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | Sample Preparation: 2011-11-11 | Prepared By: MD

continued ...

sample 281783 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**7910**	**7910**	<5.00	mg/L	1	5.00	5	5

Sample: 281783 - 70-03

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | Sample Preparation: 2011-11-21 | 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: 281784 - Lagoon

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1270**	**1270**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281784 - Lagoon

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | Sample Preparation: 2011-11-08 | 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	<1.00	<5.00	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281784 - Lagoon

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | 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	**7000**	**7000**	<5.00	mg/L	1	5.00	5	5

Sample: 281784 - Lagoon

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | Sample Preparation: 2011-11-21 | 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	**629**	**629**	<2.17	mg/L	1	2.17	10	2.17

Sample: 281785 - LRG 00457

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73464 | Sample Preparation: 2011-11-16 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**375**	**375**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 281786 - LRG 952

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86752	Date Analyzed:	2011-11-23	Analyzed By:	JR
Prep Batch:	73664	Sample Preparation:	2011-11-23	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**655**	**655**	<25.0	mg/L	50	25.0	2.5	0.5

Method Blanks

Method Blank (1)

QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73464 | QC Preparation: 2011-11-16 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | 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: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | QC Preparation: 2011-11-08 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86718 Date Analyzed: 2011-11-08 Analyzed By: JR
Prep Batch: 73630 QC Preparation: 2011-11-08 Prepared By: JR

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

Method Blank (1)

QC Batch: 86720 Date Analyzed: 2011-11-08 Analyzed By: JR
Prep Batch: 73631 QC Preparation: 2011-11-08 Prepared By: JR

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

Method Blank (1)

QC Batch: 86720 Date Analyzed: 2011-11-08 Analyzed By: JR
Prep Batch: 73631 QC Preparation: 2011-11-08 Prepared By: JR

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

Method Blank (1)

QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR
Prep Batch: 73664 QC Preparation: 2011-11-23 Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281691

QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	5490	5250	mg/L	1	4	10

Duplicate (1) Duplicated Sample: 281790

QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3250	3470	mg/L	1	6	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86417 | Date Analyzed: 2011-11-11 | Analyzed By: MD
Prep Batch: 73369 | QC Preparation: 2011-11-11 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	983	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	979	mg/L	1	1000	<5.00	98	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: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	986	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	LCSD 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	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: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73464 | QC Preparation: 2011-11-16 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		1	25.2	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: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	36.5	mg/L	1	50.0	<2.17	73	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	39.5	mg/L	1	50.0	<2.17	79	68.6 - 108	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: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | QC Preparation: 2011-11-08 | Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.2	mg/L	1	25.0	<0.500	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: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | QC Preparation: 2011-11-08 | Prepared By: JR

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	4.81	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: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | 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.	Rec. Limit	RPD	RPD Limit
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: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.86	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: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | QC Preparation: 2011-11-23 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	25.9	mg/L	1	25.0	<0.500	104	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
Sulfate		1	25.8	mg/L	1	25.0	<0.500	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: 279641

QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR
Prep Batch: 73464 | QC Preparation: 2011-11-16 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	34.5	mg/L	1.25	31.2	2.85	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
Sulfate		1	34.5	mg/L	1.25	31.2	2.85	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: 281791

QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	38.4	mg/L	1	50.0	<2.17	77	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	39.5	mg/L	1	50.0	<2.17	79	53.2 - 117	3	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: 281783

QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | QC Preparation: 2011-11-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	17100	mg/L	556	13900	3270	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
Chloride		1	17000	mg/L	556	13900	3270	99	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: 281783

QC Batch: 86718 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73630 | QC Preparation: 2011-11-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	2750	mg/L	556	2780	61.6	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	2740	mg/L	556	2780	61.6	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: 281788

QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2070	mg/L	55.6	1390	593	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	2060	mg/L	55.6	1390	593	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: 281788

QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	285	mg/L	55.6	278	11.6	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	283	mg/L	55.6	278	11.6	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: 281695

QC Batch: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR
Prep Batch: 73664 | QC Preparation: 2011-11-23 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1990	mg/L	55.6	1390	470	109	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
Sulfate		1	1990	mg/L	55.6	1390	470	109	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: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.3	93	90 - 110	2011-11-16

Standard (CCV-2)

QC Batch: 86519 | Date Analyzed: 2011-11-16 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.4	94	90 - 110	2011-11-16

Standard (ICV-1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | 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	2011-11-21

Standard (CCV-1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | 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	4.51	90	85 - 115	2011-11-21

Standard (CCV-1)

QC Batch: 86718 | Date Analyzed: 2011-11-08 | 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	2011-11-08

Standard (CCV-1)

QC Batch: 86718 | Date Analyzed: 2011-11-08 | 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	4.81	96	90 - 110	2011-11-08

Standard (CCV-2)

QC Batch: 86718 | Date Analyzed: 2011-11-08 | 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	2011-11-08

Standard (CCV-2)

QC Batch: 86718 | Date Analyzed: 2011-11-08 | 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	4.83	97	90 - 110	2011-11-08

Standard (CCV-1)

QC Batch: 86720 | Date Analyzed: 2011-11-08 | 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	2011-11-08

Standard (CCV-1)

QC Batch: 86720 Date Analyzed: 2011-11-08 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	4.83	97	90 - 110	2011-11-08

Standard (CCV-2)

QC Batch: 86720 Date Analyzed: 2011-11-08 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	2011-11-08

Standard (CCV-2)

QC Batch: 86720 Date Analyzed: 2011-11-08 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	4.84	97	90 - 110	2011-11-08

Standard (CCV-1)

QC Batch: 86752 Date Analyzed: 2011-11-23 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-11-23

Standard (CCV-2)

QC Batch: 86752 | Date Analyzed: 2011-11-23 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.0	96	90 - 110	2011-11-23

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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.

1110714

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TraceAnalysis, Inc.

155 McCutcheon, Ste. H El Paso, TX 79932
Tel (915) 585-3443
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1110714

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907	Cell #: Fax #: E-mail: vayala@dhpump.com
Contact Person: Victor Ayala	
Invoice to (if different from above): Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048	John DeRuyter 575-233-3899
Project #:	Project Name: Mountain View Dairy
Project Location (including state): Mountain View Dairy, 13090 Stern Drive, Mesquite, NM	Sampler Signature: Chad N Pow

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME
281781-1	70-01	1	500 ml	X						X		X		11-7-11	7:57
↓ -2	70-01	1	250 ml	X								X		11-7-11	7:57
281782-1	70-02	1	500 ml	X						X		X		11-7-11	9:28
↓ -2	70-02	1	250 ml	X								X		11-7-11	9:28
281783-1	70-03	1	500 ml	X						X		X		11-7-11	11:03
↓ -2	70-03	1	250 ml	X								X		11-7-11	11:03
281784-1	Lagoon	1	500 ml	X						X		X		11-7-11	8:20
↓ -2	Lagoon	1	250 ml	X								X		11-7-11	8:20
281785	LRG 00457	1	125 ml	X								X		11-7-11	9:55
281786	LRG 952 Northwest land	1	125 ml	X								X		11-7-11	10:26

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 X
Total Kjeldhal Nitrogen SM 4500 NORG C	X X
Chloride EPA 300.0	X X X X X X X X
Total Dissolved Solids SM 2540 C MOD	X X
Sulfate	
Turn Around Time	
Hold	

	Date:	Time:
Relinquished By: Chad N Pow	11-7-11	14:03
Received By:	11/7/11	14:03
Relinquished By:	11/7/11	1700
Received at Laboratory By: TA	11/8/11	9:05

Lab Use Only
Intact (Y) N
Headspace Y / N
Temp Ice 1/1 2.4
Log-in Review MRJ

Remarks: NO_3, Cl, TDS, SO_4 done in ET
Analize presserved only if unpresserved is unattainable
ONLY IN ET
☐ Dry Weight Basis Required
☐ TRRP Report Required

10

TRACEANALYSIS, INC.

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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

Tim Hyde
Bright Star Dairy
13520 Stern Dr.
P.O. Box 167
Mesquite, NM, 88048

Report Date: November 28, 2011

Work Order: 11110715

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
281787	70/86/340	water	2011-11-07	13:04	2011-11-07
281788	86/340	water	2011-11-07	12:13	2011-11-07

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

Report Contents

Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2011-11-07 and assigned to work order 11110715. Samples for work order 11110715 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	73631	2011-11-08 at 23:59	86720	2011-11-08 at 23:59
NO3 (IC)	E 300.0	73631	2011-11-08 at 23:59	86720	2011-11-08 at 23:59
TDS	SM 2540C	73417	2011-11-14 at 15:20	86462	2011-11-14 at 15:20
TKN	E 351.3	73559	2011-11-21 at 10:00	86633	2011-11-21 at 14:09

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 11110715 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: 281787 - 70/86/340

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86720	Date Analyzed:	2011-11-08	Analyzed By:	JR
Prep Batch:	73631	Sample Preparation:	2011-11-08	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1970**	**1970**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281787 - 70/86/340

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	86720	Date Analyzed:	2011-11-08	Analyzed By:	JR
Prep Batch:	73631	Sample Preparation:	2011-11-08	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**25.5**	**25.5**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 281787 - 70/86/340

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	86462	Date Analyzed:	2011-11-14	Analyzed By:	MD
Prep Batch:	73417	Sample Preparation:	2011-11-14	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	**5920**	**5920**	<5.00	mg/L	1	5.00	5	5

Sample: 281787 - 70/86/340

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	86633	Date Analyzed:	2011-11-21	Analyzed By:	AH
Prep Batch:	73559	Sample Preparation:	2011-11-21	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	**4.76**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281788 - 86/340

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**593**	**593**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281788 - 86/340

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | Sample Preparation: 2011-11-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**11.6**	**11.6**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281788 - 86/340

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | 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	**2910**	**2910**	<5.00	mg/L	1	5.00	5	5

Sample: 281788 - 86/340

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | Sample Preparation: 2011-11-21 | 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	**3.08**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | 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: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | Prepared By: JR

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

Duplicate (1) Duplicated Sample: 281790

QC Batch:	86462	Date Analyzed:	2011-11-14	Analyzed By:	MD
Prep Batch:	73417	QC Preparation:	2011-11-14	Prepared By:	MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3250	3470	mg/L	1	6	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86462 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	986	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	LCSD 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	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: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	36.5	mg/L	1	50.0	<2.17	73	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	39.5	mg/L	1	50.0	<2.17	79	68.6 - 108	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: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | 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.	Rec. Limit	RPD	RPD Limit
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: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	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.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.86	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.

Matrix Spike (MS-1) Spiked Sample: 281791

QC Batch: 86633 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73559 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	38.4	mg/L	1	50.0	<2.17	77	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	39.5	mg/L	1	50.0	<2.17	79	53.2 - 117	3	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: 281788

QC Batch: 86720 | Date Analyzed: 2011-11-08 | Analyzed By: JR
Prep Batch: 73631 | QC Preparation: 2011-11-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2070	mg/L	55.6	1390	593	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	2060	mg/L	55.6	1390	593	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: 281788

QC Batch: 86720 Date Analyzed: 2011-11-08 Analyzed By: JR
Prep Batch: 73631 QC Preparation: 2011-11-08 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	285	mg/L	55.6	278	11.6	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	283	mg/L	55.6	278	11.6	98	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: 86633 | Date Analyzed: 2011-11-21 | 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	2011-11-21

Standard (CCV-1)

QC Batch: 86633 | Date Analyzed: 2011-11-21 | 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	4.51	90	85 - 115	2011-11-21

Standard (CCV-1)

QC Batch: 86720 | Date Analyzed: 2011-11-08 | 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	2011-11-08

Standard (CCV-1)

QC Batch: 86720 | Date Analyzed: 2011-11-08 | 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	4.83	97	90 - 110	2011-11-08

Standard (CCV-2)

QC Batch: 86720 | Date Analyzed: 2011-11-08 | 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	2011-11-08

Standard (CCV-2)

QC Batch: 86720 | Date Analyzed: 2011-11-08 | 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	4.84	97	90 - 110	2011-11-08

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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 # 1111 0715

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: DCP Petroleum + Environmental

Phone #: 915 859 8150

Address: (Street, City, Zip) 1221 Tower Trail Ln El Paso Tx 79907

Fax #:

Contact Person: Victor Ayala

E-mail:

Invoice to: (If different from above) Bright Star Dairy Po Box 167 Mesquite, NM 88048 Tim Hyde 575 233-2089

Project #:

Project Name: Bright Star Dairy

Project Location (including state): Bright Star Dairy 13520 Stern Dr. Mesquite NM

Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE		SAMPLING: DATE	TIME
281787-1	70/86/340	1	500mL	X							X		X			11/7/11	13:04
↓ -2	70/86/340	1	250mL	X									X			11/7/11	13:04
281788-1	86/340	1	500mL	X							X		X			11/7/11	12:13
↓ -2	86/340	1	250mL	X									X			11/7/11	12:13

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	Nitrates	TKN	Chloride	TDS	Turn Around Time if different from standard	Hold
																			X	X				
																			X		X	X		
																			X	X				
																			X		X	X		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Daniel N River. DH		11-7-11	14:03		Trace	11/7/11	14:03
	Trace	11/7/11	1700		TA	11/8/11	9:05

INST 1.2 / OBS 1.0 °C / COR 1.0 °C

INST 1.2 / OBS 3.2 °C / COR 3.3 °C

INST ____ / OBS ____ °C / COR ____ °C

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-in-Review 11-7-11

REMARKS:

Finalize preserved Sample only if unpreserved is unobtainable

NO_3, Cl, TDS done in EP

4

- Dry Weight Basis Required
- TRRP Report Required
- Check If Special Reporting Limits Are Needed

Carrier # CARRY IN LS 4697596 04

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

TRACEANALYSIS, INC.

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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

Jerry Settles
Del Oro Dairy, LLC.
1025 East O"Hara
P.O. Box 1846
Anthony, NM, 88021

Report Date: December 2, 2011

Work Order: 11110825

DP: 692
Project Location: 1025 East O'Hara, Anthony, NM
Project Name: Del Oro 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
281924	692-01	water	2011-11-08	13:15	2011-11-08
281925	692-05	water	2011-11-08	10:30	2011-11-08
281926	692-06	water	2011-11-08	11:05	2011-11-08
281927	692-07	water	2011-11-08	11:55	2011-11-08
281928	692-08	water	2011-11-08	12:35	2011-11-08
281929	692-09	water	2011-11-08	09:20	2011-11-08

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.

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

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

Report Contents

Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2011-11-08 and assigned to work order 11110825. Samples for work order 11110825 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	73638	2011-11-09 at 20:34	86726	2011-11-09 at 20:34
Chloride (IC)	E 300.0	73639	2011-11-10 at 00:32	86727	2011-11-10 at 00:32
NO3 (IC)	E 300.0	73638	2011-11-09 at 20:34	86726	2011-11-09 at 20:34
NO3 (IC)	E 300.0	73639	2011-11-10 at 00:32	86727	2011-11-10 at 00:32
TDS	SM 2540C	73417	2011-11-14 at 15:20	86466	2011-11-14 at 15:20
TDS	SM 2540C	73755	2011-11-30 at 15:06	86867	2011-11-30 at 15:06
TDS	SM 2540C	73755	2011-11-30 at 15:06	86888	2011-11-30 at 15:06
TKN	E 351.3	73563	2011-11-21 at 12:01	86641	2011-11-21 at 16:22

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 11110825 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: 281924 - 692-01

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | Sample Preparation: 2011-11-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**1180**	**1180**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281924 - 692-01

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | Sample Preparation: 2011-11-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**168**	**168**	<5.00	mg/L	50	5.00	0.5	0.1

Sample: 281924 - 692-01

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | 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	**4690**	**4690**	<5.00	mg/L	1	5.00	5	5

Sample: 281924 - 692-01

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | Sample Preparation: 2011-11-21 | 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	**6.44**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281925 - 692-05

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86726 Date Analyzed: 2011-11-09 Analyzed By: JR
Prep Batch: 73638 Sample Preparation: 2011-11-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**383**	**383**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281925 - 692-05

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86726 Date Analyzed: 2011-11-09 Analyzed By: JR
Prep Batch: 73638 Sample Preparation: 2011-11-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	**2.30**	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281925 - 692-05

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86867 Date Analyzed: 2011-11-30 Analyzed By: MD
Prep Batch: 73755 Sample Preparation: 2011-11-30 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	**1230**	**1230**	<5.00	mg/L	1	5.00	5	5

Sample: 281925 - 692-05

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | Sample Preparation: 2011-11-21 | 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	**2.94**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 281926 - 692-06

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | Sample Preparation: 2011-11-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**425**	**425**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281926 - 692-06

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | Sample Preparation: 2011-11-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**6.46**	**6.46**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281926 - 692-06

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | Sample Preparation: 2011-11-14 | Prepared By: MD

continued ...

sample 281926 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**1450**	**1450**	<5.00	mg/L	1	5.00	5	5

Sample: 281926 - 692-06

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 86641 — Date Analyzed: 2011-11-21 — Analyzed By: AH
Prep Batch: 73563 — Sample Preparation: 2011-11-21 — 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: 281927 - 692-07

Laboratory: El Paso
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86727 — Date Analyzed: 2011-11-10 — Analyzed By: JR
Prep Batch: 73639 — Sample Preparation: 2011-11-10 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**555**	**555**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281927 - 692-07

Laboratory: El Paso
Analysis: NO3 (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 86727 — Date Analyzed: 2011-11-10 — Analyzed By: JR
Prep Batch: 73639 — Sample Preparation: 2011-11-10 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**5.22**	**5.22**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281927 - 692-07

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86888 Date Analyzed: 2011-11-30 Analyzed By: MD
Prep Batch: 73755 Sample Preparation: 2011-11-30 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	**780**	**780**	<5.00	mg/L	1	5.00	5	5

Sample: 281927 - 692-07

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 86641 Date Analyzed: 2011-11-21 Analyzed By: AH
Prep Batch: 73563 Sample Preparation: 2011-11-21 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: 281928 - 692-08

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86727 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73639 Sample Preparation: 2011-11-10 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**436**	**436**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281928 - 692-08

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**2.60**	**2.60**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281928 - 692-08

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86888 | Date Analyzed: 2011-11-30 | Analyzed By: MD
Prep Batch: 73755 | Sample Preparation: 2011-11-30 | 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	**1340**	**1340**	<5.00	mg/L	1	5.00	5	5

Sample: 281928 - 692-08

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | Sample Preparation: 2011-11-21 | 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: 281929 - 692-09

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | Sample Preparation: 2011-11-10 | Prepared By: JR

continued . . .

sample 281929 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		[1]	**455**	**455**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281929 - 692-09

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | Sample Preparation: 2011-11-10 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		[1]	**10.6**	**10.6**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281929 - 692-09

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86888 | Date Analyzed: 2011-11-30 | Analyzed By: MD
Prep Batch: 73755 | Sample Preparation: 2011-11-30 | 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]	**1400**	**1400**	<5.00	mg/L	1	5.00	5	5

Sample: 281929 - 692-09

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | Sample Preparation: 2011-11-21 | 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

Method Blanks

Method Blank (1)

QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | QC Preparation: 2011-11-21 | 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: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | QC Preparation: 2011-11-09 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | QC Preparation: 2011-11-09 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | QC Preparation: 2011-11-10 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86727 Date Analyzed: 2011-11-10 Analyzed By: JR
Prep Batch: 73639 QC Preparation: 2011-11-10 Prepared By: JR

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

Method Blank (1)

QC Batch: 86867 Date Analyzed: 2011-11-30 Analyzed By: MD
Prep Batch: 73755 QC Preparation: 2011-11-30 Prepared By: MD

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

Duplicate (1) Duplicated Sample: 281932

QC Batch: 86466 Date Analyzed: 2011-11-14 Analyzed By: MD
Prep Batch: 73417 QC Preparation: 2011-11-14 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1580	1480	mg/L	1	6	10

Duplicate (1) Duplicated Sample: 283336

QC Batch: 86867 Date Analyzed: 2011-11-30 Analyzed By: MD
Prep Batch: 73755 QC Preparation: 2011-11-30 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3790	4110	mg/L	1	8	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86466 | Date Analyzed: 2011-11-14 | Analyzed By: MD
Prep Batch: 73417 | QC Preparation: 2011-11-14 | 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		[1]	934	mg/L	1	1000	<5.00	93	90 - 110	5	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: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		[2]	40.6	mg/L	1	50.0	<2.17	81	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]	40.0	mg/L	1	50.0	<2.17	80	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: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | QC Preparation: 2011-11-09 | 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | QC Preparation: 2011-11-09 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.83	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: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | QC Preparation: 2011-11-10 | Prepared By: JR

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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.3	mg/L	1	25.0	<0.500	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: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		[1]	4.82	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: 86867 Date Analyzed: 2011-11-30 Analyzed By: MD
Prep Batch: 73755 QC Preparation: 2011-11-30 Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		[1]	953	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]	988	mg/L	1	1000	<5.00	99	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: 86888 Date Analyzed: 2011-11-30 Analyzed By: MD
Prep Batch: 73755 QC Preparation: 2011-11-30 Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		[1]	989	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	LCSD 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	2	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: 281932

QC Batch: 86641 | Date Analyzed: 2011-11-21 | Analyzed By: AH
Prep Batch: 73563 | QC Preparation: 2011-11-21 | Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	41.9	mg/L	1	50.0	<2.17	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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<2.17	87	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: 281925

QC Batch: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | QC Preparation: 2011-11-09 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1810	mg/L	55.6	1390	383	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	1810	mg/L	55.6	1390	383	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: 281925

QC Batch: 86726 | Date Analyzed: 2011-11-09 | Analyzed By: JR
Prep Batch: 73638 | QC Preparation: 2011-11-09 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	mg/L	55.6	278	<5.56	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	270	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: 281928

QC Batch: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1810	mg/L	55.6	1390	436	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
Chloride		1	1810	mg/L	55.6	1390	436	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: 281928

QC Batch: 86727 | Date Analyzed: 2011-11-10 | Analyzed By: JR
Prep Batch: 73639 | QC Preparation: 2011-11-10 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	271	mg/L	55.6	278	<5.56	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	270	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.

Calibration Standards

Standard (ICV-1)

QC Batch: 86641 | Date Analyzed: 2011-11-21 | 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	2011-11-21

Standard (CCV-1)

QC Batch: 86641 | Date Analyzed: 2011-11-21 | 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	4.68	94	85 - 115	2011-11-21

Standard (CCV-1)

QC Batch: 86726 | Date Analyzed: 2011-11-09 | 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	23.9	96	90 - 110	2011-11-09

Standard (CCV-1)

QC Batch: 86726 | Date Analyzed: 2011-11-09 | 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	4.74	95	90 - 110	2011-11-09

Standard (CCV-2)

QC Batch: 86726 Date Analyzed: 2011-11-09 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	23.9	96	90 - 110	2011-11-09

Standard (CCV-2)

QC Batch: 86726 Date Analyzed: 2011-11-09 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	4.73	95	90 - 110	2011-11-09

Standard (CCV-1)

QC Batch: 86727 Date Analyzed: 2011-11-10 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	23.9	96	90 - 110	2011-11-10

Standard (CCV-1)

QC Batch: 86727 Date Analyzed: 2011-11-10 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	4.73	95	90 - 110	2011-11-10

Standard (CCV-2)

QC Batch: 86727 Date Analyzed: 2011-11-10 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	23.9	96	90 - 110	2011-11-10

Standard (CCV-2)

QC Batch: 86727 Date Analyzed: 2011-11-10 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	4.73	95	90 - 110	2011-11-10

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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 then 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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Lubbock, TX 79424
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TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1111025

Company Name: D&H Petroleum & Environmental Services
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Fax #:
E-mail: vajala@dhpump.com
Contact Person: Victor Ayala
Invoice to (if different from above): Del Oro Dairy, PO Box 1846, Anthony, TX 88021
Jerry Settles 575-882-4331
Project #:
Project Name: Del Oro Dairy
Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, NM
Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
291924-1	692-01	1	500ml	X						X		X		11-8-11	13:15								X	X						
291924-2	692-01	1	250ml	X								X		11-8-11	13:15								X		X	X				
	~~692-02~~	~~1~~		X						X		X											X	X						
	692-02	1		X								X											X		X	X				
	692-04	1		X						X		X											X	X						
	~~692-04~~	~~1~~		X								X											X		X	X				
291925-1	692-05	1	500ml	X						X		X		11-8-11	10:30								X	X						
25-2	692-05	1	250ml	X								X		11-8-11	10:30								X		X	X				
26-1	692-06	1	500ml	X						X		X		11-8-11	11:05								X	X						
26-2	692-06	1	250ml	X								X		11-8-11	11:05								X		X	X				
27-1	692-07	1	500ml	X						X		X		11-8-11	11:55								X	X						
27-2	692-07	1	250ml	X								X		11-8-11	11:55								X		X	X				
29-1	692-08	1	500ml	X						X		X		11-8-11	12:35								X	X						
29-2	692-08	1	250ml	X								X		11-8-11	12:35								X		X	X				
29-1	692-09	1	500ml	X						X		X		11-8-11	9:20								X	X						
29-2	692-09	1	250ml	X								X		11-8-11	9:20								X		X	X				

Relinquished By: Thorsten Meinus Date: 11-8-11 Time: 16:00
Received By: Date: 11/8/11 Time: 16:00
Relinquished By: Date: 11-8-11 Time: 1630
Received at Laboratory By: TA Date: 11/9/11 Time: 9:00

Lab Use Only
Intact (Y) / N
Headspace Y / N
Temp 3.3°C
Log-in Review

Remarks: Cl, NO_3, TDS in EP
Analize preserved only if unpresserved is unattainable
12
Dry Weight Basis Required
TRRP Report Required
6 sets

TRACEANALYSIS, INC.

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: December 15, 2011

Work Order: 11110333

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.

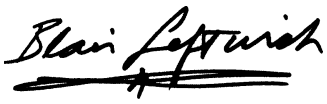
Sample	Description	Matrix	Date Taken	Time Taken	Date Received
281482	167-09	water	2011-11-03	08:34	2011-11-03

Report Corrections (Work Order 11110333)

- Added TKN and reprinted results.12-14-11

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.

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



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

Report Contents

Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2011-11-03 and assigned to work order 11110333. Samples for work order 11110333 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	73568	2011-11-05 at 01:11	86646	2011-11-05 at 01:11
NO3 (IC)	E 300.0	73566	2011-11-04 at 17:00	86643	2011-11-04 at 17:00
TDS	SM 2540C	73353	2011-11-10 at 15:55	86395	2011-11-10 at 15:55
TKN	E 351.3	74046	2011-12-15 at 10:37	87192	2011-12-15 at 13:47

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 11110333 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: 281482 - 167-09

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | Sample Preparation: 2011-11-05 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**988**	**988**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 281482 - 167-09

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | Sample Preparation: 2011-11-04 | Prepared By: JR

Comment: Analize presserved only if unpresserved is unattainable.

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**7.53**	**7.53**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 281482 - 167-09

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | Sample Preparation: 2011-11-10 | 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	**3590**	**3590**	<5.00	mg/L	1	5.00	5	5

Sample: 281482 - 167-09

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A

QC Batch: 87192 | Date Analyzed: 2011-12-15 | Analyzed By: AH
Prep Batch: 74046 | Sample Preparation: 2011-12-15 | Prepared By: AH

Comment: Analize presserved only if unpresserved is unattainable.

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	**8.40**	<10.0	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

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

Method Blank (1)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

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

Method Blank (1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

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

Method Blank (1)

QC Batch: 87192 | Date Analyzed: 2011-12-15 | Analyzed By: AH
Prep Batch: 74046 | QC Preparation: 2011-12-15 | 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: 281485

QC Batch:	86395	Date Analyzed:	2011-11-10	Analyzed By:	MD
Prep Batch:	73353	QC Preparation:	2011-11-10	Prepared By:	MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3200	3500	mg/L	1	9	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86395 | Date Analyzed: 2011-11-10 | Analyzed By: MD
Prep Batch: 73353 | QC Preparation: 2011-11-10 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	990	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	989	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: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.87	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.91	mg/L	1	5.00	<0.100	98	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: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.500	99	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	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: 87192 | Date Analyzed: 2011-12-15 | Analyzed By: AH
Prep Batch: 74046 | QC Preparation: 2011-12-15 | Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<2.17	91	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	39.9	mg/L	1	50.0	<2.17	80	68.6 - 108	13	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: 281478

QC Batch: 86643 | Date Analyzed: 2011-11-04 | Analyzed By: JR
Prep Batch: 73566 | QC Preparation: 2011-11-04 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	42.4	mg/L	5.56	27.8	13.4	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	42.4	mg/L	5.56	27.8	13.4	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: 281479

QC Batch: 86646 | Date Analyzed: 2011-11-05 | Analyzed By: JR
Prep Batch: 73568 | QC Preparation: 2011-11-05 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		[1]	1900	mg/L	55.6	1390	442	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]	1910	mg/L	55.6	1390	442	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: 284381

QC Batch: 87192 Date Analyzed: 2011-12-15 Analyzed By: AH
Prep Batch: 74046 QC Preparation: 2011-12-15 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		[2]	58.1	mg/L	1	50.0	6.47	103	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]	59.1	mg/L	1	50.0	6.47	105	53.2 - 117	2	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: 86643 | Date Analyzed: 2011-11-04 | 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	2011-11-04

Standard (CCV-2)

QC Batch: 86643 | Date Analyzed: 2011-11-04 | 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	4.84	97	90 - 110	2011-11-04

Standard (CCV-1)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (CCV-2)

QC Batch: 86646 | Date Analyzed: 2011-11-05 | 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	2011-11-05

Standard (ICV-1)

QC Batch: 87192 | Date Analyzed: 2011-12-15 | 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	4.31	86	85 - 115	2011-12-15

Standard (CCV-1)

QC Batch: 87192 | Date Analyzed: 2011-12-15 | 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	5.32	106	85 - 115	2011-12-15

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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	T104704219-11-5	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 then 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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11110333

TraceAnalysis, Inc.

155 McCutcheon, Ste. H El Paso, TX 79932
Tel (915) 585-3443
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Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 11110333

Company Name: D&H Petroleum & Environmental Services	Phone #: 915-859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907	Cell #:
Contact Person: Victor Ayala	Fax #:
Invoice to (if different from above): River Valley Dairy, PO Box 1929, Anthony, NM 88021	E-mail: vajala@dhpump.com
Project #:	Bruce Bonestroo 575-233-2061
Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM	Project Name: River Valley Dairy, LLC
	Sampler Signature:

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	Sampling: DATE	TIME	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD			Turn Around Time	Hold
28142-1	167-01	1	250mL	X						X		X		11/3/11	5:34								X	X						
28142-2	167-01	1	500mL	X								X		11/3/11	5:34								X		X	X				
	167-01A	1		X						X		X											X	X						
	167-01A	1		X								X											X		X	X				
	167-02	1		X						X		X											X	X						
	167-02	1		X								X											X		X	X				
	167-03	1		X						X		X											X	X						
	167-03	1		X								X											X		X	X				
	167-05	1		X						X		X											X	X						
	167-05	1		X								X											X		X	X				
	167-06	1		X						X		X											X	X						
	167-06	1		X								X											X		X	X				
	167-07	1		X						X		X											X	X						
	167-07	1		X								X											X		X	X				
	167-08	1		X						X		X											X	X						
	167-08	1		X								X											X		X	X				

Relinquished By: Thorsten Meinus	Date: 11/3/11	Time: 15:15
Relinquished By:	Date: 11/5/11	Time: 1625
Received By:	Date: 11/7/11	Time: 1515
Received at Laboratory By:	Date: 11-5-11	Time: 10:30

Lab Use Only
Intact (Y) N
Headspace Y / N
Temp 1.1 °C
Log-in Review JH

Remarks: NO3, Cl, TDS dominEP
Analize presserved only if unpresserved is unattainable
2.1 4697596?
Dry Weight Basis Required
TRRP Report Required ~~LS 4697596~~

TRACEANALYSIS, INC.

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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

Linda Armstrong
Dona Ana Dairies

P.O. Box 10
Mesquite, NM, 88048

Report Date: December 16, 2011

Work Order: 11120718

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
283835	DAD-21	water	2011-12-07	09:30	2011-12-07
283836	DAD-20	water	2011-12-07	10:27	2011-12-07
283837	DAD-18	water	2011-12-07	11:54	2011-12-07
283838	DAD-19	water	2011-12-07	13:05	2011-12-07
283839	DAD-12	water	2011-12-07	14:38	2011-12-07
283840	177-06	water	2011-12-07	15:11	2011-12-07

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.

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

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

Report Contents

Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2011-12-07 and assigned to work order 11120718. Samples for work order 11120718 were received intact at a temperature of -2.0 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	74027	2011-12-08 at 22:35	87161	2011-12-14 at 22:35
Chloride (IC)	E 300.0	74030	2011-12-09 at 02:22	87169	2011-12-09 at 02:22
NO3 (IC)	E 300.0	74027	2011-12-08 at 22:35	87161	2011-12-14 at 22:35
NO3 (IC)	E 300.0	74030	2011-12-09 at 02:22	87169	2011-12-09 at 02:22
SO4 (IC)	E 300.0	74027	2011-12-08 at 22:35	87161	2011-12-14 at 22:35
SO4 (IC)	E 300.0	74030	2011-12-09 at 02:22	87169	2011-12-09 at 02:22
TDS	SM 2540C	73922	2011-12-08 at 14:40	87058	2011-12-08 at 14:40
TDS	SM 2540C	74068	2011-12-14 at 15:26	87215	2011-12-14 at 15:26
TKN	E 351.3	73979	2011-12-13 at 11:54	87183	2011-12-13 at 10:05

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 11120718 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: 283835 - DAD-21

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87161	Date Analyzed:	2011-12-14	Analyzed By:	JR
Prep Batch:	74027	Sample Preparation:	2011-12-08	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**396**	**396**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283835 - DAD-21

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87161	Date Analyzed:	2011-12-14	Analyzed By:	JR
Prep Batch:	74027	Sample Preparation:	2011-12-08	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	**2.14**	<2.50	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 283835 - DAD-21

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87161	Date Analyzed:	2011-12-14	Analyzed By:	JR
Prep Batch:	74027	Sample Preparation:	2011-12-08	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**219**	**219**	<2.50	mg/L	5	2.50	2.5	0.5

Sample: 283835 - DAD-21

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	87058	Date Analyzed:	2011-12-08	Analyzed By:	MD
Prep Batch:	73922	Sample Preparation:	2011-12-08	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	**1600**	**1600**	<5.00	mg/L	1	5.00	5	5

Sample: 283835 - DAD-21

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 87183 — Date Analyzed: 2011-12-13 — Analyzed By: AH
Prep Batch: 73979 — Sample Preparation: 2011-12-13 — 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	Qr,U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 283836 - DAD-20

Laboratory: El Paso
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 87161 — Date Analyzed: 2011-12-14 — Analyzed By: JR
Prep Batch: 74027 — Sample Preparation: 2011-12-08 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**611**	**611**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283836 - DAD-20

Laboratory: El Paso
Analysis: NO3 (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 87161 — Date Analyzed: 2011-12-14 — Analyzed By: JR
Prep Batch: 74027 — Sample Preparation: 2011-12-08 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**16.1**	**16.1**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 283836 - DAD-20

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | Sample Preparation: 2011-12-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**383**	**383**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 283836 - DAD-20

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 87058 | Date Analyzed: 2011-12-08 | Analyzed By: MD
Prep Batch: 73922 | Sample Preparation: 2011-12-08 | 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	**2020**	**2020**	<5.00	mg/L	1	5.00	5	5

Sample: 283836 - DAD-20

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 87183 | Date Analyzed: 2011-12-13 | Analyzed By: AH
Prep Batch: 73979 | Sample Preparation: 2011-12-13 | 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	Qr,U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 283837 - DAD-18

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | Sample Preparation: 2011-12-08 | Prepared By: JR

continued . . .

sample 283837 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**639**	**639**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283837 - DAD-18

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | Sample Preparation: 2011-12-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**9.21**	**9.21**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 283837 - DAD-18

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | Sample Preparation: 2011-12-08 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**495**	**495**	<5.00	mg/L	10	5.00	2.5	0.5

Sample: 283837 - DAD-18

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 87058 | Date Analyzed: 2011-12-08 | Analyzed By: MD
Prep Batch: 73922 | Sample Preparation: 2011-12-08 | 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	**2670**	**2670**	<5.00	mg/L	1	5.00	5	5

Sample: 283837 - DAD-18

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 87183 | Date Analyzed: 2011-12-13 | Analyzed By: AH
Prep Batch: 73979 | Sample Preparation: 2011-12-13 | 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	Qr,U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 283838 - DAD-19

Laboratory: El Paso
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | Sample Preparation: 2011-12-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**789**	**789**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283838 - DAD-19

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | Sample Preparation: 2011-12-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**47.4**	**47.4**	<1.00	mg/L	10	1.00	0.5	0.1

Sample: 283838 - DAD-19

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | Sample Preparation: 2011-12-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**544**	**544**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283838 - DAD-19

Laboratory: El Paso
Analysis: TDS — Analytical Method: SM 2540C — Prep Method: N/A
QC Batch: 87215 — Date Analyzed: 2011-12-14 — Analyzed By: JR
Prep Batch: 74068 — Sample Preparation: 2011-12-14 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**3070**	**3070**	<5.00	mg/L	1	5.00	5	5

Sample: 283838 - DAD-19

Laboratory: Lubbock
Analysis: TKN — Analytical Method: E 351.3 — Prep Method: N/A
QC Batch: 87183 — Date Analyzed: 2011-12-13 — Analyzed By: AH
Prep Batch: 73979 — Sample Preparation: 2011-12-13 — 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	Qr,U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 283839 - DAD-12

Laboratory: El Paso
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 87169 — Date Analyzed: 2011-12-09 — Analyzed By: JR
Prep Batch: 74030 — Sample Preparation: 2011-12-09 — Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**597**	**597**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283839 - DAD-12

Laboratory: El Paso
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | Sample Preparation: 2011-12-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**18.8**	**18.8**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 283839 - DAD-12

Laboratory: El Paso
Analysis: SO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | Sample Preparation: 2011-12-09 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**616**	**616**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283839 - DAD-12

Laboratory: El Paso
Analysis: TDS | Analytical Method: SM 2540C | Prep Method: N/A
QC Batch: 87215 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74068 | Sample Preparation: 2011-12-14 | Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**2620**	**2620**	<5.00	mg/L	1	5.00	5	5

Sample: 283839 - DAD-12

Laboratory: Lubbock
Analysis: TKN | Analytical Method: E 351.3 | Prep Method: N/A
QC Batch: 87183 | Date Analyzed: 2011-12-13 | Analyzed By: AH
Prep Batch: 73979 | Sample Preparation: 2011-12-13 | 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	Qr,U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Sample: 283840 - 177-06

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87169	Date Analyzed:	2011-12-09	Analyzed By:	JR
Prep Batch:	74030	Sample Preparation:	2011-12-09	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	**892**	**892**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283840 - 177-06

Laboratory:	El Paso				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87169	Date Analyzed:	2011-12-09	Analyzed By:	JR
Prep Batch:	74030	Sample Preparation:	2011-12-09	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	**15.1**	**15.1**	<0.500	mg/L	5	0.500	0.5	0.1

Sample: 283840 - 177-06

Laboratory:	El Paso				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	87169	Date Analyzed:	2011-12-09	Analyzed By:	JR
Prep Batch:	74030	Sample Preparation:	2011-12-09	Prepared By:	JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	**475**	**475**	<25.0	mg/L	50	25.0	2.5	0.5

Sample: 283840 - 177-06

Laboratory:	El Paso				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	87215	Date Analyzed:	2011-12-14	Analyzed By:	JR
Prep Batch:	74068	Sample Preparation:	2011-12-14	Prepared By:	JR

continued . . .

sample 283840 continued . . .

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	**2760**	**2760**	<5.00	mg/L	1	5.00	5	5

Sample: 283840 - 177-06

Laboratory:	Lubbock				
Analysis:	TKN	Analytical Method:	E 351.3	Prep Method:	N/A
QC Batch:	87183	Date Analyzed:	2011-12-13	Analyzed By:	AH
Prep Batch:	73979	Sample Preparation:	2011-12-13	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	Qr,U	2	<2.17	<10.0	<2.17	mg/L	1	2.17	10	2.17

Method Blanks

Method Blank (1)

QC Batch: 87058 | Date Analyzed: 2011-12-08 | Analyzed By: MD
Prep Batch: 73922 | QC Preparation: 2011-12-08 | Prepared By: MD

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

Method Blank (1)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

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

Method Blank (1)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

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

Method Blank (1)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

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

Method Blank (1)

QC Batch: 87169 Date Analyzed: 2011-12-09 Analyzed By: JR
Prep Batch: 74030 QC Preparation: 2011-12-09 Prepared By: JR

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

Method Blank (1)

QC Batch: 87169 Date Analyzed: 2011-12-09 Analyzed By: JR
Prep Batch: 74030 QC Preparation: 2011-12-09 Prepared By: JR

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

Method Blank (1)

QC Batch: 87169 Date Analyzed: 2011-12-09 Analyzed By: JR
Prep Batch: 74030 QC Preparation: 2011-12-09 Prepared By: JR

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

Method Blank (1)

QC Batch: 87183 Date Analyzed: 2011-12-13 Analyzed By: AH
Prep Batch: 73979 QC Preparation: 2011-12-13 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: 87215 Date Analyzed: 2011-12-14 Analyzed By: JR
Prep Batch: 74068 QC Preparation: 2011-12-14 Prepared By: MD

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

Duplicate (1) Duplicated Sample: 283837

QC Batch: 87058 Date Analyzed: 2011-12-08 Analyzed By: MD
Prep Batch: 73922 QC Preparation: 2011-12-08 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2650	2670	mg/L	1	1	10

Duplicate (1) Duplicated Sample: 284080

QC Batch: 87215 Date Analyzed: 2011-12-14 Analyzed By: JR
Prep Batch: 74068 QC Preparation: 2011-12-14 Prepared By: MD

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	6630	6760	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87058 | Date Analyzed: 2011-12-08 | Analyzed By: MD
Prep Batch: 73922 | QC Preparation: 2011-12-08 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1090	mg/L	1	1000	<5.00	109	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	1000	mg/L	1	1000	<5.00	100	90 - 110	9	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: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.8	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.	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: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

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.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.65	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: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	23.6	mg/L	1	25.0	<0.500	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
Sulfate		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: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | QC Preparation: 2011-12-09 | Prepared By: JR

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	24.1	mg/L	1	25.0	<0.500	96	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: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | QC Preparation: 2011-12-09 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.66	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.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.69	mg/L	1	5.00	<0.100	94	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: 87169 Date Analyzed: 2011-12-09 Analyzed By: JR
Prep Batch: 74030 QC Preparation: 2011-12-09 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		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.	Rec. Limit	RPD	RPD Limit
Sulfate		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: 87183 Date Analyzed: 2011-12-13 Analyzed By: AH
Prep Batch: 73979 QC Preparation: 2011-12-13 Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	42.1	mg/L	1	50.0	<2.17	84	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	44.1	mg/L	1	50.0	<2.17	88	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: 87215 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74068 | QC Preparation: 2011-12-14 | Prepared By: MD

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	995	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	938	mg/L	1	1000	<5.00	94	90 - 110	6	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: 283835

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1800	mg/L	55.6	1390	396	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	1810	mg/L	55.6	1390	396	102	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: 283835

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	259	mg/L	55.6	278	<5.56	92	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	263	mg/L	55.6	278	<5.56	94	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: 283835

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR
Prep Batch: 74027 | QC Preparation: 2011-12-08 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1530	mg/L	55.6	1390	219	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
Sulfate		1	1550	mg/L	55.6	1390	219	96	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: 283839

QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | QC Preparation: 2011-12-09 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2030	mg/L	55.6	1390	597	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	2040	mg/L	55.6	1390	597	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: 283839

QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR
Prep Batch: 74030 | QC Preparation: 2011-12-09 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	280	mg/L	55.6	278	18.8	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	281	mg/L	55.6	278	18.8	94	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: 283839

QC Batch: 87169 Date Analyzed: 2011-12-09 Analyzed By: JR
Prep Batch: 74030 QC Preparation: 2011-12-09 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	2030	mg/L	55.6	1390	616	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
Sulfate		1	2030	mg/L	55.6	1390	616	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: 283840

QC Batch: 87183 Date Analyzed: 2011-12-13 Analyzed By: AH
Prep Batch: 73979 QC Preparation: 2011-12-13 Prepared By: AH

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	35.1	mg/L	1	50.0	<2.17	70	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	Qr	2	44.8	mg/L	1	50.0	<2.17	90	53.2 - 117	24	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: 87161 | Date Analyzed: 2011-12-14 | 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	23.8	95	90 - 110	2011-12-14

Standard (CCV-1)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | 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	4.67	93	90 - 110	2011-12-14

Standard (CCV-1)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.6	94	90 - 110	2011-12-14

Standard (CCV-2)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | 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	23.9	96	90 - 110	2011-12-14

Standard (CCV-2)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | 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	4.70	94	90 - 110	2011-12-14

Standard (CCV-2)

QC Batch: 87161 | Date Analyzed: 2011-12-14 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.7	95	90 - 110	2011-12-14

Standard (CCV-1)

QC Batch: 87169 | Date Analyzed: 2011-12-09 | 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	23.9	96	90 - 110	2011-12-09

Standard (CCV-1)

QC Batch: 87169 | Date Analyzed: 2011-12-09 | 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	4.70	94	90 - 110	2011-12-09

Standard (CCV-1)

QC Batch: 87169 | Date Analyzed: 2011-12-09 | Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.7	95	90 - 110	2011-12-09

Standard (CCV-2)

QC Batch: 87169 Date Analyzed: 2011-12-09 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	23.9	96	90 - 110	2011-12-09

Standard (CCV-2)

QC Batch: 87169 Date Analyzed: 2011-12-09 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	4.69	94	90 - 110	2011-12-09

Standard (CCV-2)

QC Batch: 87169 Date Analyzed: 2011-12-09 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.6	94	90 - 110	2011-12-09

Standard (ICV-1)

QC Batch: 87183 Date Analyzed: 2011-12-13 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	4.42	88	85 - 115	2011-12-13

Standard (CCV-1)

QC Batch: 87183 | Date Analyzed: 2011-12-13 | 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	2011-12-13

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.625	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.625	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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	T104704219-11-5	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 then 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 # 11120718

Page 1 of 1

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2501 Mayes Rd., Ste 100
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Company Name: D&H Petroleum & Environmental
Phone #: (915) 859-8150
Address: (Street, City, Zip) 1221 Tower Trail Ln El Paso 79907
Fax #: (915) 859-7329
Contact Person: Victor Ayala
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: Dona Ana Dairies
Project Location (including state):
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
283835	DAD-21	2	500 250	X								X		12/7/11	9:30
36	DAD-20	2		X											10:27
37	DAD-18	2		X											11:54
38	DAD-19	2		X											13:05
39	DAD-12	2		X											14:38
40	177-06	2		X								X		12/7/11	15:11

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, (TDS) EC	Nitrate	Chloride	NO2	Sulfate	Turn Around Time if different from standard	Hold
																		X				X		
																		X				X		
																		X				X		
																		X				X		
																		X				X		
																		X	X	X	X	X		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	D&H	12/7/11	1652			12/7/11	1652	INST IR2 OBS -2 °C COR -2 °C
		12/7/11	1625			12/9/11	9:00	INST 12.3 OBS 3.4 °C COR 3.4 °C
								INST ____ OBS ____ °C COR ____ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review JH

REMARKS:
TDS, NO_3, Cl, & SO_4 done in EP.

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

(12)

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Courier Fed Ex 869759944

TRACEANALYSIS, INC.

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December 5, 2011

Teresa McMillan
E. A. Engineering, Science, & Tech.
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102

Re: Dona Ana Dairy Project, Oct.-Nov. 2011 Sampling, Nitrate Missed Hold Time

Dear Teresa,

Below is the table showing the samples run out of the 48 hour hold time, amount of time outside hold time, reported result, and the previous quarter's result.

Sample #	Field Code	Sampling Date	Sampling Time	Rec. Date	Rec. Time	Analysis Date	Analysis Time	Outside Hold Time (hr.)	Rptd. NO3 (ppm)	Prev. NO3 (ppm)
280731	DAD-09	10/26/11	10:43	10/26/11	15:50	10/29/11	19:32	33	77.7	70.2
270732	DAD-10	10/26/11	9:45	10/26/11	15:50	10/29/11	20:32	35	3.33	2.29
280733	DAD-17	10/26/11	13:00	10/26/11	15:50	10/29/11	21:16	32	<0.5	N/A
280734	DAD-22	10/26/11	15:15	10/26/11	15:50	10/29/11	23:45	34	29.5	N/A
280869	DAD-01	10/27/11	11:55	10/27/11	16:20	10/30/11	0:30	13	9.56	12.0
280870	DAD-02	10/27/11	9:06	10/27/11	16:20	10/30/11	1:14	16	8.3	7.66
280871	DAD-06	10/27/11	7:28	10/27/11	16:20	10/30/11	2:43	19	9.2	18.0
280872	DAD-13	10/27/11	11:26	10/27/11	16:20	10/30/11	3:28	16	7.51	N/A
280873	DAD-14	10/27/11	9:45	10/27/11	16:20	10/30/11	4:12	19	17.2	N/A
280874	DAD-16	10/27/11	8:34	10/27/11	16:20	10/30/11	6:41	22	<0.5	N/A

This project originally had nitrate and nitrite being analyzed on a preserved sample by colorimetric, cadmium column method SM 4500 NO3 E. The preserved sample allowed a longer hold time, but the analysis is prone to false high results due to interferences, especially color, and errors associated with the collection of the sample through the cadmium column. In addition, there was no way to determine how much of the result was due to nitrate or nitrite. The analysis was changed to nitrate and nitrite by ion chromatograph method EPA 300.0 which gives separate data for nitrate and nitrite, and the data is more accurate because there are no interferences. The drawback is the short EPA listed hold time of 48 hours. There is a risk that the samples will be run out of hold time because approximately 24 hours are lost on samples sampled early in the morning and delivered to the lab late at end of the day or early the

next morning, there may be too many samples to run within hold time, and re-runs due to dilutions or failed QC would probably have to be run on the third day.

From October 27 – November 9, 2011, TraceAnalysis received 102 samples over 10 days, except Saturday and Sunday. Only the first 10 samples received Thursday, October 26, and Friday, October 27, were analyzed out of hold time as shown in the above table. The reason for the exceedance was that the analytical curve failed and it took an extra day to standardize and pass the curve. The chemist was able to run the samples that Saturday. Running nitrate by 300.0 within 48 hours on a large number of daily samples does not allow a margin of error. Each sample is diluted two or three times in order to have the high chloride and low nitrate result within the linear curve. Ten samples take at least 20 shots plus 8 QC samples. At 13 minutes per shot, this is 7 hours run time per sample batch. On days where 16 samples were received, there is a 20 hour run time including preparation between batches, which does not leave much time for error or re-runs.

Because it was probable that some of the study samples would exceed the 48 hour hold time and there was a need to take some time pressure off the lab and allow a more flexible sampling schedule for the project, TraceAnalysis performed a hold time study at the beginning of the project. Nitrates were unchanged after 22 days hold time. Well water sample #256255 from this project was analyzed over a 22 day period. The sample was held at 4°C between analyses. The very low level of nitrites were <0.02 ppm after 10 days. The nitrite was probably converted to nitrate. Minor differences in numbers can be due to variability in dilution and daily standardization. Results and QC can be within +/- 20% and be within EPA allowable recovery and precision. All of these results are well within that margin (22.7 - 34.1) applied to the average (28.4); therefore, they are essentially the same result. In fact, each result is within 10% of the average. The total nitrate/nitrite started at 28.4 ppm and ended at 29.00 ppm, 22 days later. This is only a possible 0.6 ppm decrease of nitrate/nitrite in 22 days. The study indicates that samples can be held for at least 22 days at 4°C before nitrate analysis, 7 days before nitrite analysis, and 22 days for combined nitrate/nitrite, if it is assumed nitrite converts to nitrate.

Analysis Date	ppm NO2-N	ppm NO3-N
3/3/11	1.4	27.3
3/10/11	1.0	27.6
3/13/11	<0.02	28.3
3/14/11	<0.02	28.3
3/15/11	<0.02	31.2
3/17/11	<0.02	28.0
3/20/11	<0.02	27.9
3/21/11	<0.02	28.3
3/22/11	<0.02	28.5
3/23/11	<0.02	29.1
3/24/11	<0.02	28.5
3/25/11	<0.02	29.0

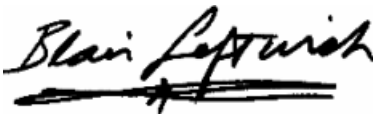
In November, 2011, TraceAnalysis again was able to determine the effects of hold time while confirming nitrate results on samples from this project on 4 well samples. The samples were originally analyzed November 9th and re-analyzed November 28th, 20 days later. The results, below, show nitrates were

the same after 20 days hold time at 4°C.

Sample #	Field Code	11/9/11 NO3-N	11/28/11 NO3-N
281295	692-01	2.30	2.33
281297	692-07	5.22	5.20
281928	692-08	2.60	2.65
281929	692-09	10.6	10.4

The samples in question were analyzed for nitrate 16-35 hours out of hold time on the 3rd day of hold time. The two hold time studies show nitrate remains unchanged over 20 days hold time at 4°C. Three days is well within the studies documented hold time of 20 days for nitrate. This data from samples that were analyzed 16-35 hours out of EPA's listed 48 hour hold time should be considered accurate and usable.

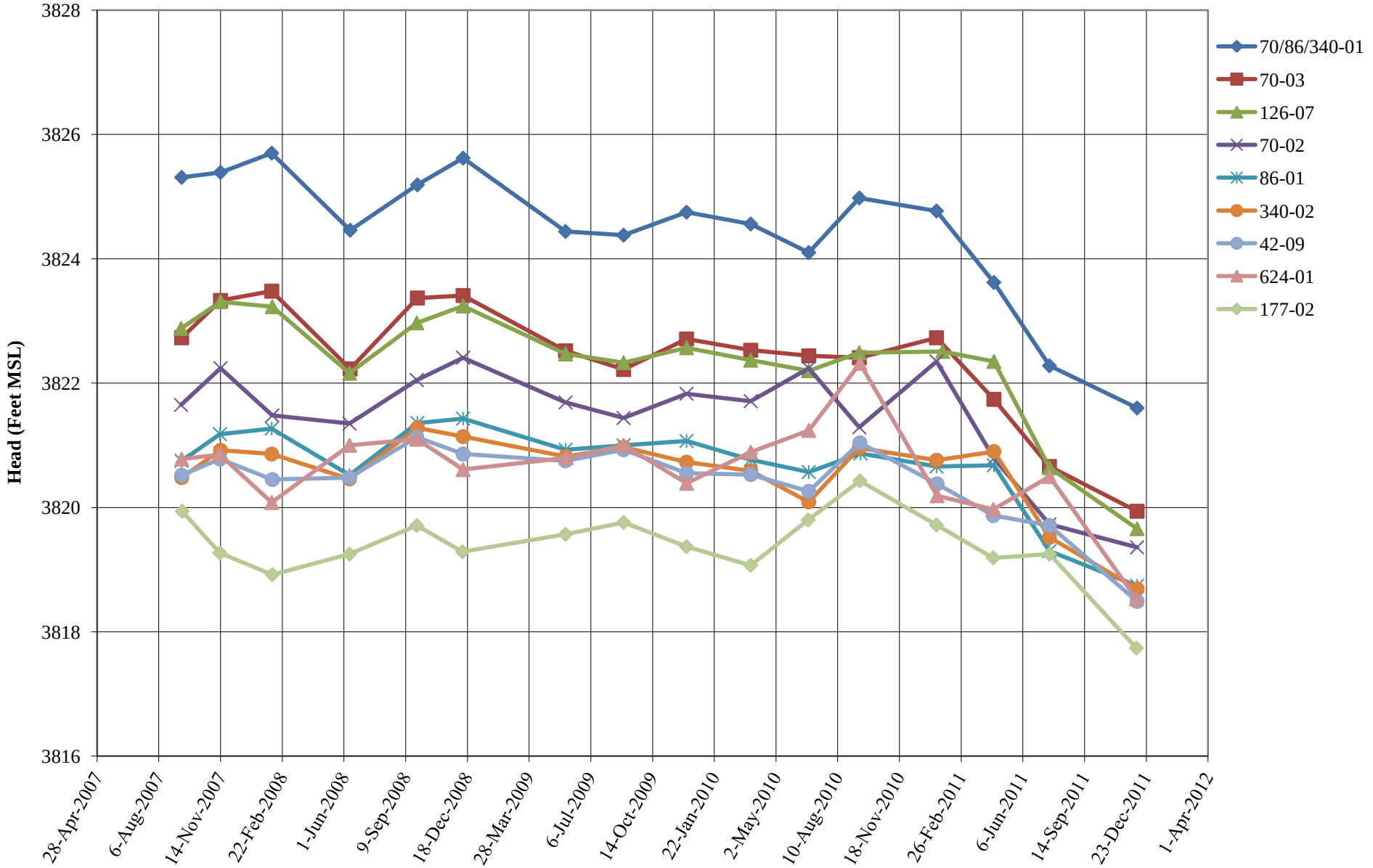
Respectfully,

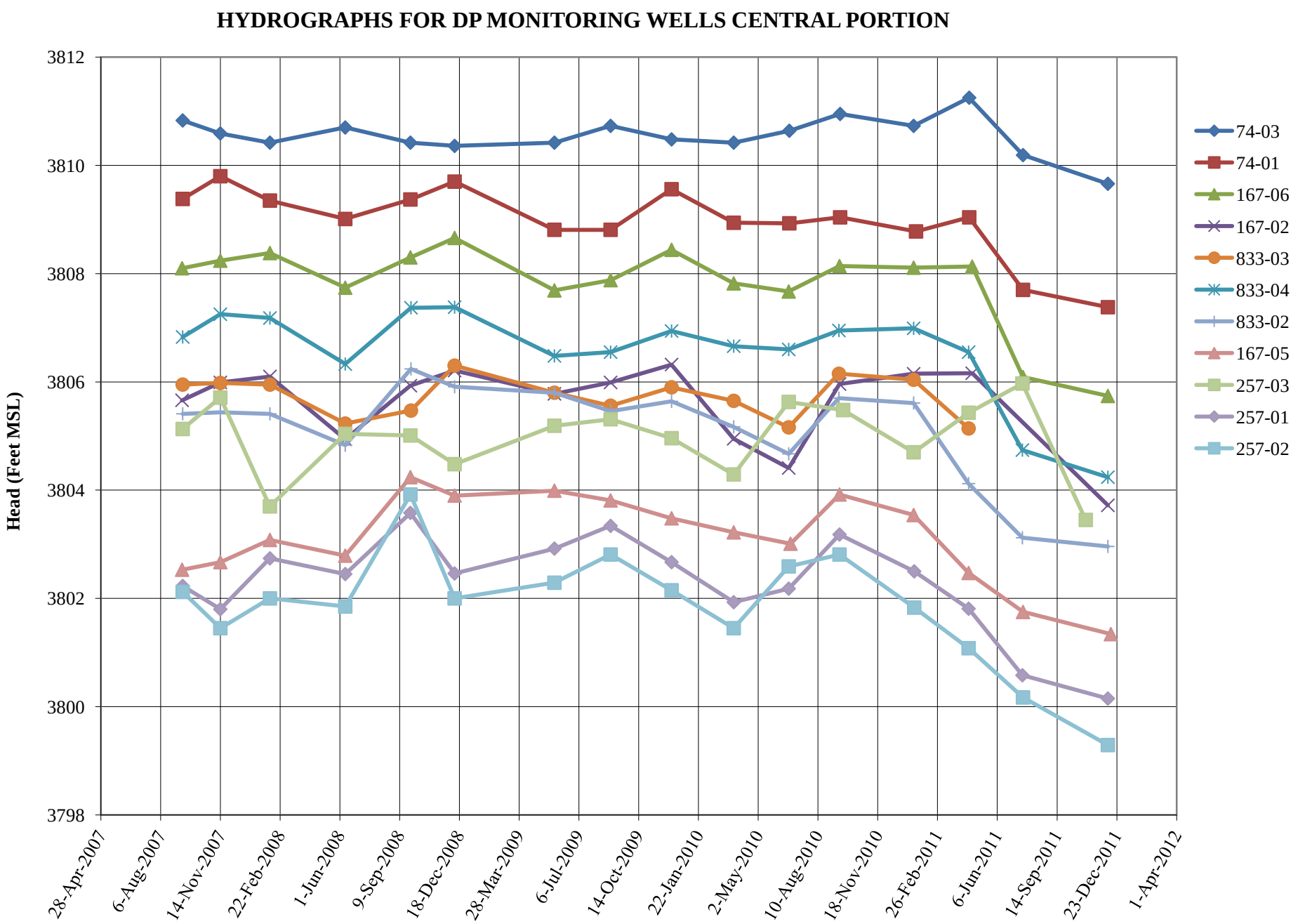


Dr. Blair Leftwich
TraceAnalysis, Inc.
Corporate Technical Director

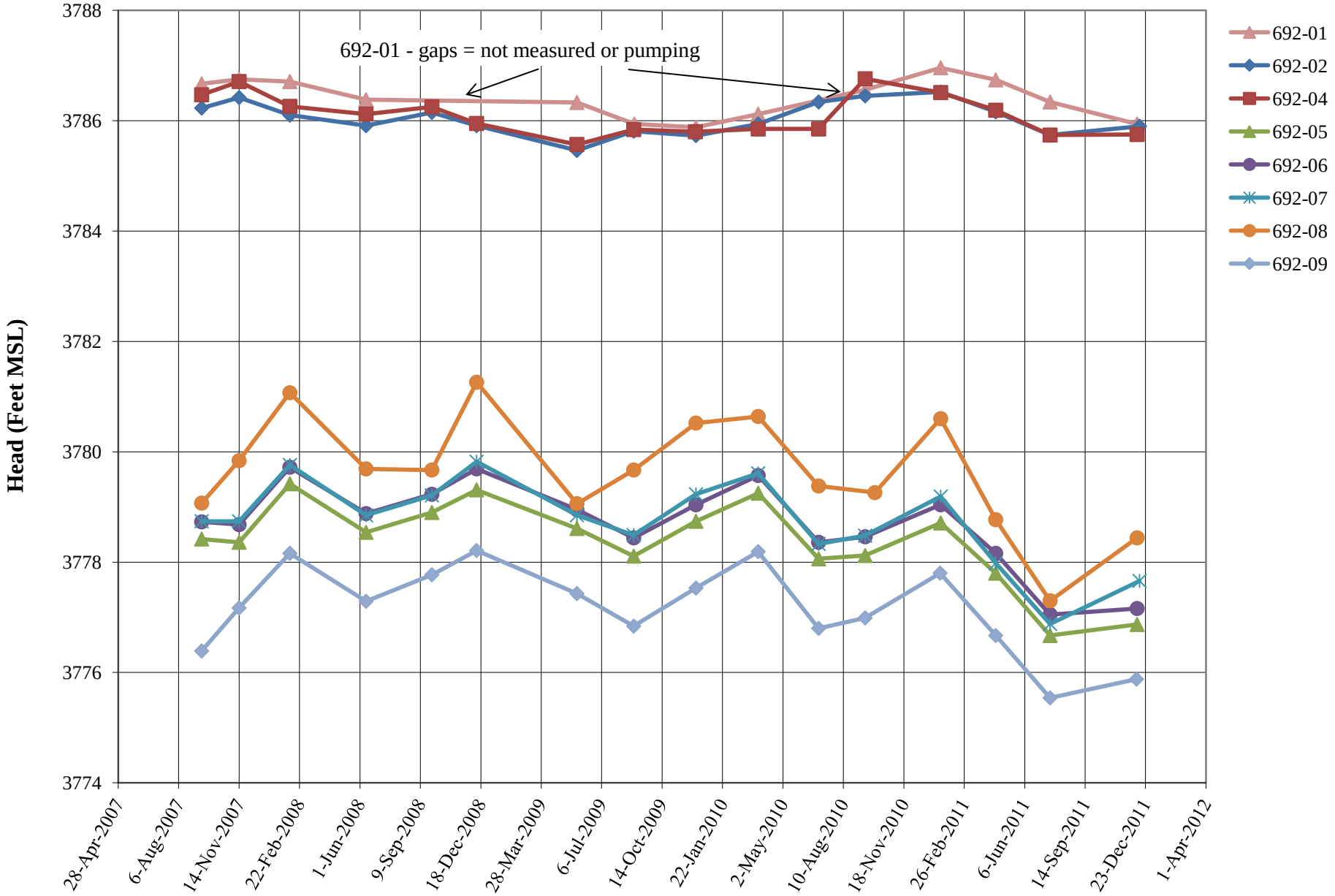
APPENDIX C
HYDROGRAPHS

HYDROGRAPHS FOR DP MONITORING WELLS NORTHERN PORTION

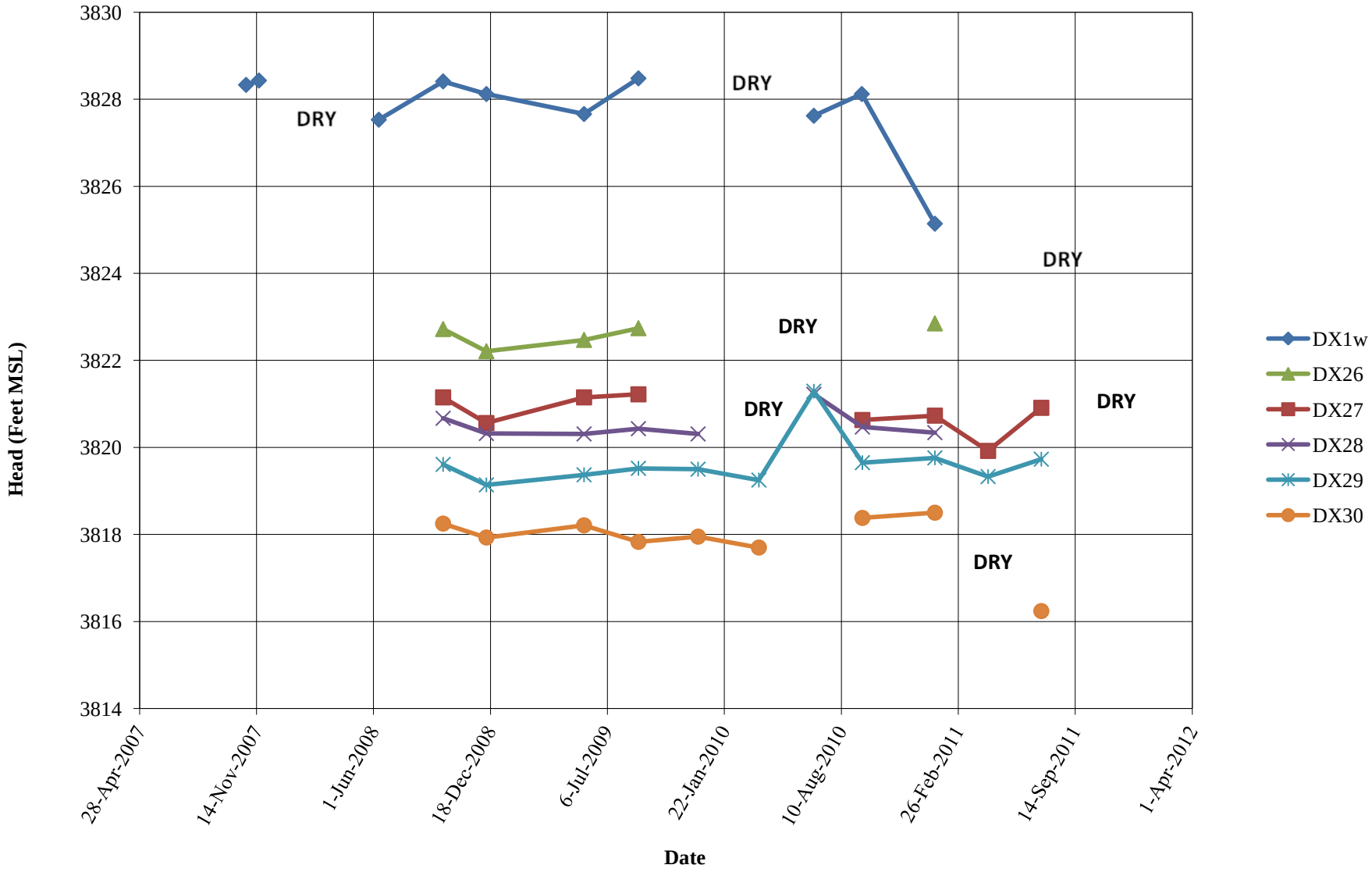



HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION
Head (Feet MSL)
3812
3810
3808
3806
3804
3802
3800
3798
28-Apr-2007
6-Aug-2007
14-Nov-2007
22-Feb-2008
1-Jun-2008
9-Sep-2008
18-Dec-2008
28-Mar-2009
6-Jul-2009
14-Oct-2009
22-Jan-2010
2-May-2010
10-Aug-2010
18-Nov-2010
26-Feb-2011
6-Jun-2011
14-Sep-2011
23-Dec-2011
1-Apr-2012
74-03
74-01
167-06
167-02
833-03
833-04
833-02
167-05
257-03
257-01
257-02

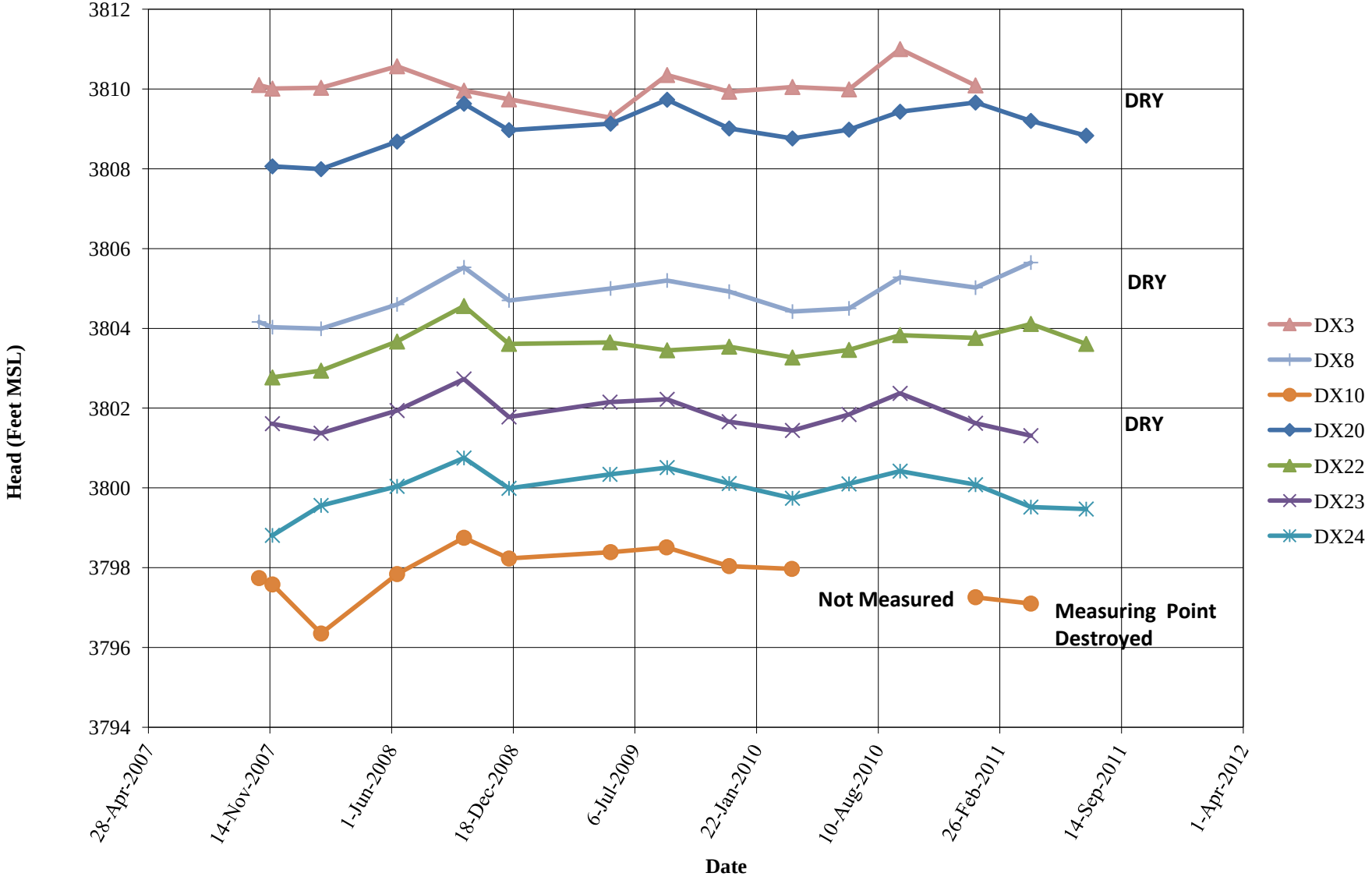
HYDROGRAPHS FOR DP MONITORING WELLS SOUTHERN PORTION

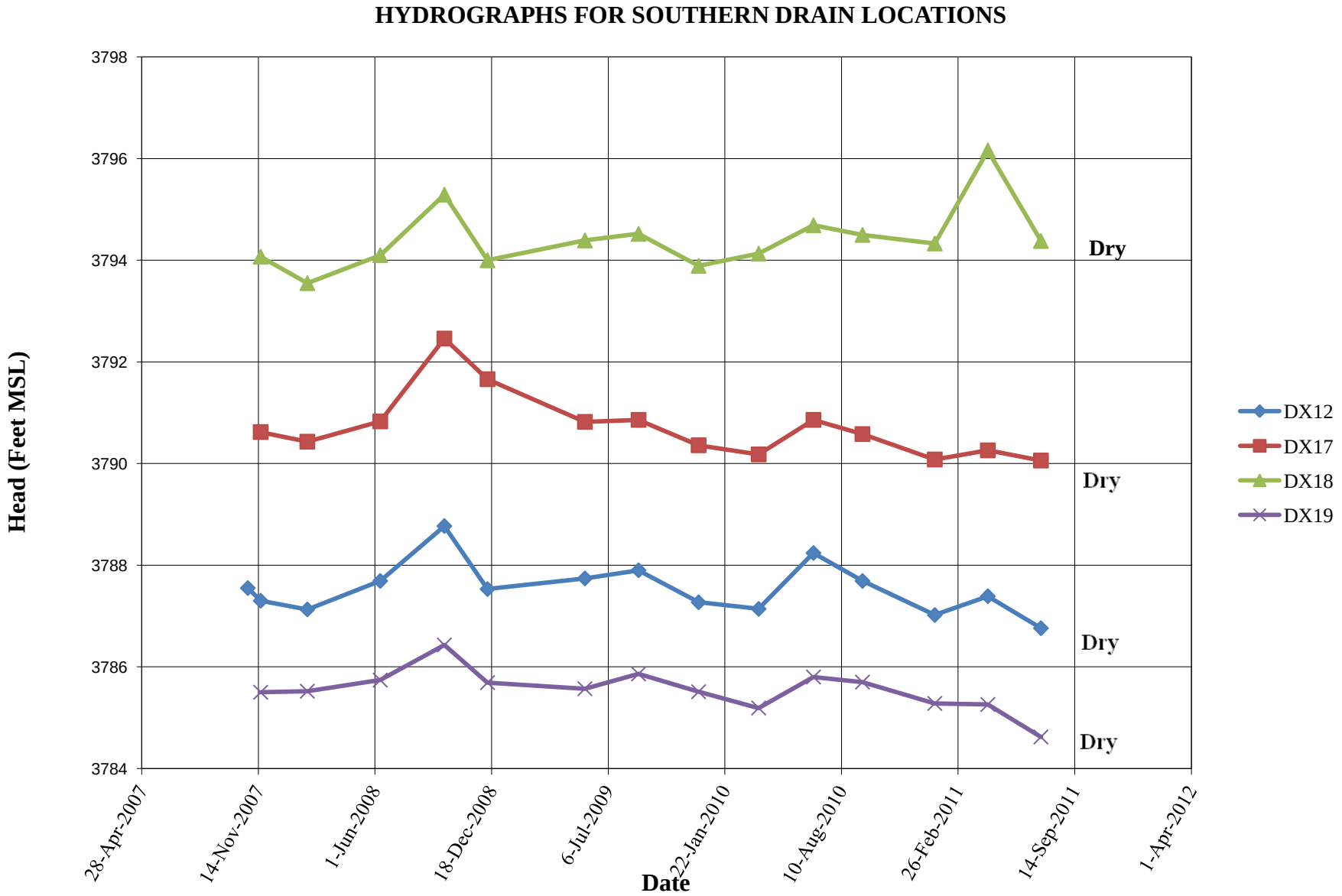


HYDROGRAPHS FOR NORTHERN DRAIN LOCATIONS

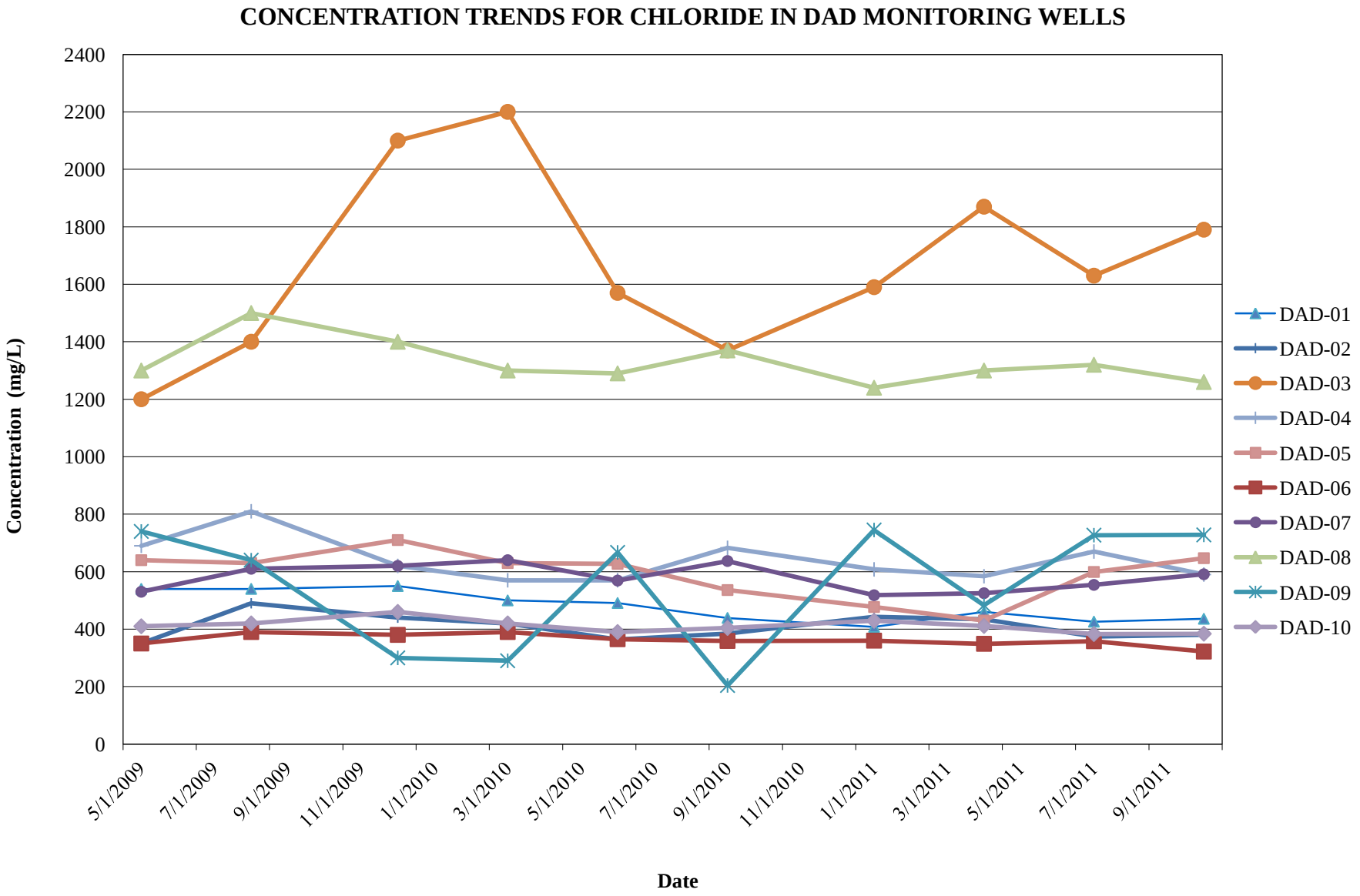


HYDROGRAPHS FOR CENTRAL DRAIN LOCATIONS




HYDROGRAPHS FOR SOUTHERN DRAIN LOCATIONS
Head (Feet MSL)
3798
3796
3794
3792
3790
3788
3786
3784
28-Apr-2007
14-Nov-2007
1-Jun-2008
18-Dec-2008
6-Jul-2009
22-Jan-2010
10-Aug-2010
26-Feb-2011
14-Sep-2011
1-Apr-2012
Date
Dry
Dry
Dry
Dry
DX12
DX17
DX18
DX19

APPENDIX D
CONCENTRATION TRENDS


CONCENTRATION TRENDS FOR CHLORIDE IN DAD MONITORING WELLS
Concentration (mg/L)
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5/1/2009
7/1/2009
9/1/2009
11/1/2009
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
7/1/2011
9/1/2011
Date
DAD-01
DAD-02
DAD-03
DAD-04
DAD-05
DAD-06
DAD-07
DAD-08
DAD-09
DAD-10

CONCENTRATION TRENDS FOR NITRATE IN SELECT DAD MONITORING WELLS