



EA Engineering, Science, & Technology, Inc.
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102
Phone: (505) 224-9013 Fax (505) 224-9016

May 14, 2013

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

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

Dear Messrs. Montes and Faris:

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

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

Sincerely,

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

Teri McMillan
Project Manager

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

Jay Snyder
Senior Hydrogeologist

Enclosure

Cc: Linda Armstrong, Doña Ana Dairies
File



QUARTERLY GROUNDWATER
MONITORING REPORT
DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

Prepared for:

Doña Ana Dairies
Mesquite, New Mexico

Prepared by:

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

May 2013

EA Project No. 1464103.0004



320 Gold Avenue SW, Ste.1210
Albuquerque, NM 87102
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Quarterly Groundwater Monitoring Report
Doña Ana Dairies
Mesquite, New Mexico

Prepared for:

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Teri McMillan
Project Manager

5/14/13

Date

Jay Snyder
Senior Hydrogeologist

5/14/13

Date

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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 (Figure 1). The report was completed in accordance with the *Stage 1 and 2 Abatement Plan Proposal and Sampling and Analysis Plan, Doña Ana Dairies, Doña Ana County, New Mexico* dated December 11, 2006 and August 11, 2008, respectively, and the Conceptual Work Plan (CWP) dated February 1, 2008. All were prepared to satisfy requirements stated in the New Mexico Administrative Code (NMAC), Title 20, 6.2 §4106 through §4110. The Stage 1 and 2 Abatement Plan was approved on June 16, 2008 by the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB). The Sampling and Analysis Plan was approved by the NMED GWQB on September 25, 2008.

1.1 Objective

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

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

- On February 7 and 8, 2013, two representatives from D&H Petroleum and Environmental Services, Inc. (D&H) gauged all discharge plan (DP) and abatement plan (AP) monitoring wells.
- Starting on February 12, 2013, D&H representatives collected groundwater samples from all 22 AP wells (DAD-01 through DAD-22), each Dairy's DP monitoring wells, and DP specified lagoons. The sampling campaign lasted about one month, ending on March 6, 2013. 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) was prepared. (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.

On February 9, 2012 the Final Site Investigation Report was submitted to NMED. The report summarized field activities that occurred from October 10 through October 14, 2011 and November 10 through 18, 2011, during which eleven soil borings were advanced at the site and converted into monitoring wells DAD-12 through DAD-14, DAD-16 through DAD-22, and DP well 177-03A.

On August 16, 2012 soil boring/monitoring well DAD-15 was installed and on August 20, 2012 well DAD-15 sampled. An addendum to the Final Site Investigation Report was submitted to NMED on September 7, 2012, which summarized DAD-15 field activities.

A Stage 2 Abatement Plan was submitted to NMED on March 13, 2013.

Quarterly groundwater monitoring is currently being conducted.

2.0 GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities conducted by D&H included gauging and sampling DP and AP monitoring wells. 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 February 7 and 8, 2013, two representatives from D&H gauged the DP and AP monitoring wells with an electronic water level indicator. Due to a declining water table, several wells were dry. Table 1 provides 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

From February 28 through March 6, 2013, D&H sampled the AP monitoring wells DAD-01 through DAD-22 with disposable bailers. Wells were purged of three well volumes with new disposable bailers 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 from February 12 through 27, 2013. A new DP well, 70-04, located at Mountain View Dairy has been added to the sampling regimen. The survey coordinates for the new well are located in Appendix A. 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.

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 2. 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 11.07 feet below top of casing (ft TOC) in AP well DAD-03 to 129.18 ft TOC in Dominguez #2 well 42-12.

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 wells and are provided in Appendix C. In general, water levels have increased in most wells when compared to the last monitoring event conducted in October 2012 (See hydrographs presented in Appendix C). An average increase of 0.08 feet was observed in the monitoring wells. Despite the slight water level rise since last event, the long term decreases in water levels have resulted in many wells becoming dry.

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 west. The hydraulic gradient across the Dairies is approximately 0.001 ft./ft.

3.2 Groundwater Analytical Results

3.2.1 Abatement Plan Well Results

Groundwater analyte concentrations were below the NMWQCC standard for nitrate (10 mg/L) in all but 9 of the 22 AP monitoring wells. The AP wells that had nitrate concentrations at or above standards are DAD-1, DAD-08, DAD-09, DAD-11, DAD-12, DAD-14, DAD-18, DAD-19 and DAD-20. Both chloride and TDS concentrations exceeded their respective NMWQCC standards in all 22 wells.

Nitrate concentrations fluctuated in most wells that were sampled. Concentrations in well DAD-11 have increased for the last three quarters. The nitrate concentration in well DAD-11 increased from 13.4 mg/L in December 2012 to 14.6 mg/L this quarter. Well DAD-14 (Gonzalez Dairy) exhibits an increasing nitrate trend since the well was installed in October 2011 while well DAD-22 (Del Oro Dairy) has a decreasing trend since the well was installed in October 2011. The nitrate concentration in well DAD-08 continues to increase with a concentration of 90.0 mg/L this event increasing from 40.2 mg/L in December 2012.

Concentrations of chloride and TDS in all wells remain relatively constant compared to levels measured in the past. However the chloride concentrations in well DAD-17 increased from 230 mg/L to 351 mg/L. Chloride concentrations ranged from 351 mg/L in DAD-17 to 2,280 mg/L in DAD-08, and TDS values ranged from 1,510 mg/L in DAD-06 to 7,060 mg/L in DAD-08.

Table 3 summarizes the analytical results for AP monitoring wells and the analytical laboratory results are found in Appendix B. Nitrate and chloride concentration trends for select DAD wells are presented in Appendix D.

3.2.2 Results by Areas at the Dairies

DP groundwater analytical results are summarized in Table 4. These data were combined with the analytical data collected from the 22 AP monitoring wells and are plotted on Figures 6, 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 8.52 mg/L. The upgradient well (northern land application well 86/340-1) had a nitrate concentration of 12.2 mg/L, which is just above the NMWQCC standard for nitrate (10 mg/L). All eastern cross-gradient wells except well DAD-01 (Dominguez #2 wells 42-10, 42-11, and 42-12) have nitrate concentrations below the standard. Well DAD-01 had a concentration at the standard, 10.0 mg/L. The western delineating cross-gradient well Dominguez 624-05 had a nitrate concentration of 6.72 mg/L.

The chloride and TDS concentrations are above standards in all wells sampled within the northern portion. The highest concentrations of chloride and TDS were observed in the Northern Land Application area in well 70-03 at 3,400 mg/L and 8,440 mg/L, respectively.

Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy wells 833-02 and 833-09 at concentrations of 101 mg/L and 97.0 mg/L, respectively. The extent of the nitrate plume is defined in the Central Portion. Buena Vista well 74-03 and well DAD-03 define the upgradient extent of the nitrate plume, while DAD-17 defines the downgradient extent of the plume. The eastern cross-gradient extent of the plume is defined by DAD-06, DAD-07, and DAD-15 and the western extent is defined by DAD-04, DAD-05 and DAD-16.

Chloride and TDS concentrations are above standards in all wells within the central portion. The highest chloride and TDS concentrations were observed at well DAD-08 at 2,280 mg/L and 7,060 mg/L. Well DAD-08 is located east of Sunset Dairy, adjacent to a new irrigation well.

Southern Portion

Nitrate is present within both the regional and perched aquifers in the southern portion of the Dairies; however, all of the wells in the regional aquifer are below the NMWQCC standard of 10 mg/L.

In the shallow perched aquifer the nitrate plume is defined downgradient (southwest). Nitrate concentrations have continued to decrease in well DAD-22, which had a nitrate concentration of

8.25 mg/L this quarter which is below NMWQCC standards. The well with the highest nitrate concentration in the shallow perched aquifer is Del Oro Dairy well 692-01 with a concentration of 88 mg/L.

Chloride and TDS concentrations are above NMWQCC standards in all wells sampled within the southern portion. Chloride concentrations in this area ranged from 396 mg/L in Del Oro Dairy well 692-02 to 909 mg/L in DAD-22, while TDS ranged from 1,340 mg/L to 2,690 mg/L in Del Oro Dairy wells 692-05 and 692-01, respectively. Upgradient well Del Oro 692-08 had a chloride concentration of 424 mg/L and a TDS concentration of 1,380 mg/L.

4.0 CONCLUSION AND RECOMMENDATIONS

The groundwater monitoring event included the gauging of all DP and DAD wells and sampling of all 22 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 11.07 to 129.18 feet below the top of casing.
- In general, water levels have increased when compared to the last monitoring event conducted in October 2012.
- River Valley well 167-08 had been previously damaged and was unable to be sampled; however, sampling was accomplished with a smaller diameter bailer this event.
- 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 all but 9 of the 22 groundwater samples collected from all the AP DAD wells.
- Chloride was above NMWQCC standard in all monitoring wells sampled.
- TDS was above the NMWQCC standard in all monitoring wells sampled.
- 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 the Dairies.

EA has recommended, in the Stage 2 Abatement Plan, the number of abatement and discharge plan wells be reduced for quarterly sampling.

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 (NMED). 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.
- NMED. 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 DATADONA 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	7-Feb-2013	424580.78	1510233.88	3871.43	53.46	3817.97
	24-Oct-2012				54.05	3817.38
	30-Jul-2012				53.70	3817.73
	23-Apr-2012				52.84	3818.59
	30-Jan-2012				51.41	3820.02
	8-Dec-2011				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	7-Feb-2013	427320.92	1508461.05	3866.77	46.49	3820.28
	24-Oct-2012				47.30	3819.47
	30-Jul-2012				46.84	3819.93
	23-Apr-2012				45.91	3820.86
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
86/340-01	7-Feb-2013	432021.33	1503216.90	3876.14	52.31	3823.83
	24-Oct-2012				53.16	3822.98
	30-Jul-2012				52.70	3823.44
	23-Apr-2012				52.20	3823.94
	30-Jan-2012				51.10	3825.04
	8-Dec-2011				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	7-Feb-2013	423258.23	1510546.24	3850.31	32.05	3818.26
	24-Oct-2012				32.58	3817.73
	30-Jul-2012				32.23	3818.08
	23-Apr-2012				31.46	3818.85
	26-Jan-2012				30.89	3819.42
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
126-05	7-Feb-2013	422293.26	1510649.84	3842.62	24.71	3817.91
	24-Oct-2012				24.96	3817.66
	30-Jul-2012				24.73	3817.89
	23-Apr-2012				24.21	3818.41
	26-Jan-2012				23.52	3819.10
	8-Dec-2011				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	7-Feb-2013	423613.62	1509986.47	3850.94	32.58	3818.36
	24-Oct-2012				32.97	3817.97
	30-Jul-2012				32.60	3818.34
	23-Apr-2012				31.84	3819.10
	26-Jan-2012				31.23	3819.71
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
126-09	7-Feb-2013	425154.15	1510994.31	3893.35	74.61	3818.74
	24-Oct-2012				75.29	3818.06
	30-Jul-2012				74.98	3818.37
	23-Apr-2012				73.98	3819.37
	26-Jan-2012				72.24	3821.11
	8-Dec-2011				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	7-Feb-2013	421492.11	1510198.45	3838.88	20.92	3817.96
	24-Oct-2012				20.53	3818.35
	30-Jul-2012				20.48	3818.40
	23-Apr-2012				20.22	3818.66
	30-Jan-2012				19.79	3819.09
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
126-13	7-Feb-2013	423431.96	1510657.41	3857.37	39.07	3818.30
	24-Oct-2012				39.60	3817.77
	30-Jul-2012				39.30	3818.07
	23-Apr-2012				38.52	3818.85
	26-Jan-2012				37.80	3819.57
	8-Dec-2011				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	7-Feb-2013	423303.43	1510585.63	3851.84	33.58	3818.26
	24-Oct-2012				34.08	3817.76
	30-Jul-2012				33.80	3818.04
	23-Apr-2012				33.09	3818.75
	26-Jan-2012				32.29	3819.55
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
70-02	7-Feb-2013	423412.73	1511192.51	3861.25	43.13	3818.12
	24-Oct-2012				43.66	3817.59
	30-Jul-2012				43.33	3817.92
	23-Apr-2012				42.60	3818.65
	26-Jan-2012				41.81	3819.44
	8-Dec-2011				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				
70-04	7-Feb-2013	422798.94	1510922.20	3849.81	31.85	3817.96
Buena Vista Dairy I						
86-01	7-Feb-2013	421534.62	1511667.76	3864.96	47.35	3817.61
	24-Oct-2012				47.61	3817.35
	30-Jul-2012				47.26	3817.70
	23-Apr-2012				46.86	3818.10
	30-Jan-2012				46.34	3818.62
	8-Dec-2011				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 DATADONA 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
86-02	7-Feb-2013	421792.08	1510881.53	3848.08	30.07	3818.01
	24-Oct-2012				29.71	3818.37
	30-Jul-2012				29.71	3818.37
	23-Apr-2012				29.43	3818.65
	30-Jan-2012				28.94	3819.14
	8-Dec-2011				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	7-Feb-2013	421410.13	1511423.42	3858.48	40.75	3817.73
	24-Oct-2012				40.82	3817.66
	30-Jul-2012				40.44	3818.04
	23-Apr-2012				40.16	3818.32
	25-Jan-2012				39.70	3818.78
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
340-02	7-Feb-2013	420641.08	1512051.57	3869.76	52.29	3817.47
	24-Oct-2012				52.26	3817.50
	30-Jul-2012				51.67	3818.09
	23-Apr-2012				51.61	3818.15
	25-Jan-2012				51.31	3818.45
	8-Dec-2011				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	7-Feb-2013	419982.45	1511126.19	3844.69	26.48	3818.21
	24-Oct-2012				25.91	3818.78
	31-Jul-2012				25.05	3819.64
	23-Apr-2012				25.46	3819.23
	26-Jan-2012				25.71	3818.98
	8-Dec-2011				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 DATADONA 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
42-03	7-Feb-2013	419710.55	1514064.35	3898.46	82.01	3816.45
	24-Oct-2012				82.70	3815.76
	31-Jul-2012				82.49	3815.97
	23-Apr-2012				81.57	3816.89
	25-Jan-2012				81.18	3817.28
	8-Dec-2011				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	7-Feb-2013	420021.61	1511465.15	3850.15	32.30	3817.85
	24-Oct-2012				31.80	3818.35
	31-Jul-2012				31.15	3819.00
	23-Apr-2012				31.37	3818.78
	25-Jan-2012				31.51	3818.64
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
42-07	7-Feb-2013	420584.8	1513076.66	3891.52	Dry	
	24-Oct-2012				Dry	
	31-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				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	7-Feb-2013	419994.93	1511197.91	3846.53	28.43	3818.10
	24-Oct-2012				27.92	3818.61
	31-Jul-2012				27.11	3819.42
	23-Apr-2012				27.51	3819.02
	26-Jan-2012				27.68	3818.85
	8-Dec-2011				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 DATADONA 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
42-09	7-Feb-2013	419729.17	1512255.76	3865.25	47.79	3817.46
	24-Oct-2012				47.29	3817.96
	31-Jul-2012				46.98	3818.27
	23-Apr-2012				46.93	3818.32
	25-Jan-2012				46.95	3818.30
	8-Dec-2011				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	7-Feb-2013	421426.39	1514460.4	3929.28	112.29	3816.99
	24-Oct-2012				112.95	3816.33
	31-Jul-2012				112.87	3816.41
	23-Apr-2012				111.87	3817.41
	25-Jan-2012				110.98	3818.30
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
42-11	7-Feb-2013	420693.98	1515270.32	3939.31	122.91	3816.40
	24-Oct-2012				123.44	3815.87
	31-Jul-2012				123.11	3816.20
	23-Apr-2012				122.09	3817.22
	25-Jan-2012				121.67	3817.64
	8-Dec-2011				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	7-Feb-2013	420972.09	1515423.88	3945.83	129.18	3816.65
	24-Oct-2012				129.74	3816.09
	31-Jul-2012				129.44	3816.39
	23-Apr-2012				128.71	3817.12
	25-Jan-2012				128.06	3817.77
	8-Dec-2011				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 DATADONA 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
42-13	7-Feb-2013	419734.06	1512534.42	3873.10	55.86	3817.24
	24-Oct-2012				55.40	3817.70
	31-Jul-2012				55.17	3817.93
	23-Apr-2012				54.96	3818.14
	25-Jan-2012				54.99	3818.11
	8-Dec-2011				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-Feb-2013	418826.21	1512131.46	3843.72	26.39	3817.33
	24-Oct-2012				25.89	3817.83
	30-Jul-2012				26.12	3817.60
	24-Apr-2012				26.02	3817.70
	25-Jan-2012				25.51	3818.21
	7-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
624-02	7-Feb-2013	417335.25	1512201.42	3835.45	19.10	3816.35
	24-Oct-2012				18.85	3816.60
	30-Jul-2012				18.59	3816.86
	23-Apr-2012				17.97	3817.48
	24-Jan-2012				17.16	3818.29
	7-Dec-2011				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	7-Feb-2013	418542.24	1508104.07	3835.69	Dry	
	24-Oct-2012				Dry	
	30-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				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 DATADONA 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
624-05	7-Feb-2013	419777.52	1509829.65	3835.27	16.72	3818.55
	24-Oct-2012				16.35	3818.92
	30-Jul-2012				15.89	3819.38
	23-Apr-2012				15.90	3819.37
	25-Jan-2012				15.81	3819.46
	7-Dec-2011				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	7-Feb-2013	418502.42	1513981.08	3868.18	51.84	3816.34
	24-Oct-2012				51.99	3816.19
	30-Jul-2012				51.30	3816.88
	23-Apr-2012				51.83	3816.35
	25-Jan-2012				51.80	3816.38
	13-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
624-07	7-Feb-2013	418012.23	1514707.77	3872.25	Dry	
	24-Oct-2012				55.58	3816.67
	30-Jul-2012				55.47	3816.78
	23-Apr-2012				Dry	
	25-Jan-2012				55.50	3816.75
	13-Dec-2011				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	7-Feb-2013	421461.78	1507712.04	3838.70	Dry	
	24-Oct-2012				Dry	
	30-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				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 DATADONA 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-Feb-2013	417300.94	1512942.63	3834.27	17.77	3816.50
	25-Oct-2012				15.91	3818.36
	30-Jul-2012				14.88	3819.39
	23-Apr-2012				16.32	3817.95
	26-Jan-2012				16.71	3817.56
	7-Dec-2011				16.36	3817.91
	19-Jul-2011				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-Feb-2013	416738.21	1513246.51	3834.66	18.50	3816.16
	25-Oct-2012				17.35	3817.31
	30-Jul-2012				17.80	3816.86
	24-Jan-2012				17.61	3817.05
	7-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
177-03A	7-Feb-2013	416206.71	1513777.17	3835.75	20.01	3815.74
	25-Oct-2012				19.18	3816.57
	30-Jul-2012				18.24	3817.51
	24-Apr-2012				18.57	3817.18
	24-Jan-2012				18.63	3817.12
	13-Dec-2011				18.51	3817.24
177-04	7-Feb-2013	416796.99	1513733.28	3840.33	24.29	3816.04
	25-Oct-2012				23.49	3816.84
	30-Jul-2012				22.68	3817.65
	24-Apr-2012				23.36	3816.97
	24-Jan-2012				22.47	3817.86
	7-Dec-2011				22.97	3817.36
	19-Jul-2011				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 DATADONA 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
177-05	7-Feb-2013	417302.42	1514116.55	3852.16	36.21	3815.95
	25-Oct-2012				35.72	3816.44
	30-Jul-2012				36.39	3815.77
	24-Apr-2012				36.04	3816.12
	24-Jan-2012				35.02	3817.14
	7-Dec-2011				35.19	3816.97
	19-Jul-2011				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-Feb-2013	417301.84	1514765.63	3866.02	50.43	3815.59
	25-Oct-2012				50.81	3815.21
	30-Jul-2012				51.09	3814.93
	24-Apr-2012				Dry	
	24-Jan-2012				49.40	3816.62
	7-Dec-2011				49.85	3816.17
	19-Jul-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
177-07R	7-Feb-2013	415240.93	1515476.47	3858.91	44.44	3814.47
	25-Oct-2012				43.98	3814.93
	30-Jul-2012				43.60	3815.31
	24-Apr-2012				43.56	3815.35
	24-Jan-2012				43.08	3815.83
	7-Dec-2011				43.46	3815.45
	19-Jul-2011				42.91	3816.00
	19-Apr-2011				41.96	3816.95
177-07	Apr-11	415258.95	1515471.64	3859.96	Plugged and Abandoned	
	17-Jan-2011				Dry	
	15-Sep-2010				Dry	
	23-Jun-2010				Dry	
	22-Mar-2010				Dry	
	8-Dec-2009				Dry	
	10-Dec-2008				Dry	
	27-Sep-2008				Dry	
	10-Jun-2008				Dry	
	6-Feb-2008				Dry	
	13-Nov-2007				Dry	
	13-Sep-2007				Dry	
	CENTRAL AREA					
Buena Vista Dairy II						
74-01	7-Feb-2013	405434.93	1519310.15	3841.01	33.64	3807.37
	25-Oct-2012				34.94	3806.07
	31-Jul-2012				34.53	3806.48
	24-Apr-2012				34.27	3806.74
	24-Jan-2012				33.36	3807.65
	8-Dec-2011				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 DATADONA 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	7-Feb-2013	404574.08	1519035.52	3820.58	15.84	3804.74
	25-Oct-2012				16.02	3804.56
	31-Jul-2012				15.09	3805.49
	24-Apr-2012				14.30	3806.28
	24-Jan-2012				13.96	3806.62
	8-Dec-2011				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	7-Feb-2013	407163.61	1516711.72	3823.36	13.93	3809.43
	25-Oct-2012				14.22	3809.14
	31-Jul-2012				14.17	3809.19
	24-Apr-2012				13.99	3809.37
	24-Jan-2012				13.60	3809.76
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
74-04	7-Feb-2013	405488.65	1519864.48	3853.17	46.31	3806.86
	25-Oct-2012				46.96	3806.21
	31-Jul-2012				47.16	3806.01
	24-Apr-2012				47.05	3806.12
	24-Jan-2012				45.78	3807.39
	8-Dec-2011				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	7-Feb-2013	404747.71	1519885.3	3845.35	39.4	3805.95
	25-Oct-2012				40.33	3805.02
	31-Jul-2012				40.19	3805.16
	24-Apr-2012				40.05	3805.30
	24-Jan-2012				38.78	3806.57
	8-Dec-2011				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 DATADONA 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	7-Feb-2013	402518.37	1518459.71	3818.94	17.02	3801.92
	25-Oct-2012				17.23	3801.71
	31-Jul-2012				16.91	3802.03
	24-Apr-2012				16.01	3802.93
	24-Jan-2012				14.60	3804.34
	8-Dec-2011				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	7-Feb-2013	402518.18	1518936.72	3818.88	17.45	3801.43
	25-Oct-2012				17.38	3801.50
	31-Jul-2012				17.08	3801.80
	24-Apr-2012				16.29	3802.59
	24-Jan-2012				14.59	3804.29
	13-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
167-02	7-Feb-2013	402498.3	1519354.81	3819.64	Dry	
	25-Oct-2012				Dry	
	31-Jul-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				15.84	3803.80
	8-Dec-2011				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	7-Feb-2013	402981.73	1519415.73	3825.66	22.06	3803.60
	25-Oct-2012				23.49	3802.17
	31-Jul-2012				22.63	3803.03
	24-Apr-2012				21.97	3803.69
	24-Jan-2012				20.94	3804.72
	8-Dec-2011				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 DATADONA 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
167-04	7-Feb-2013	402032.19	1519884.6	3827.60	24.84	3802.76
	25-Oct-2012				25.60	3802.00
	31-Jul-2012				25.19	3802.41
	24-Apr-2012				25.05	3802.55
	24-Jan-2012				23.36	3804.24
	8-Dec-2011				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	7-Feb-2013	397947.44	1520446.03	3815.44	14.96	3800.48
	25-Oct-2012				15.74	3799.70
	31-Jul-2012				15.60	3799.84
	24-Apr-2012				14.99	3800.45
	30-Jan-2012				13.86	3801.58
	13-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
167-06	7-Feb-2013	404479.35	1519603.88	3834.84	30.00	3804.84
	25-Oct-2012				30.12	3804.72
	31-Jul-2012				30.29	3804.55
	24-Apr-2012				29.84	3805.00
	24-Jan-2012				28.48	3806.36
	8-Dec-2011				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	7-Feb-2013	402562.23	1518480.34	3819.08	15.84	3803.24
	25-Oct-2012				16.30	3802.78
	31-Jul-2012				16.09	3802.99
	24-Apr-2012				15.84	3803.24
	24-Jan-2012				14.54	3804.54
	8-Dec-2011				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 DATADONA 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
167-08	7-Feb-2013	399352.96	1519889.65	3817.96	16.73	3801.23
	25-Oct-2012				17.72	3800.24
	31-Jul-2012				17.60	3800.36
	24-Apr-2012				16.71	3801.25
	24-Jan-2012				15.25	3802.71
	8-Dec-2011				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	7-Feb-2013	398473.95	1519259.34	3817.00	15.36	3801.64
	25-Oct-2012				15.31	3801.69
	31-Jul-2012				15.04	3801.96
	24-Apr-2012				15.12	3801.88
	24-Jan-2012				14.60	3802.40
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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						
833-01	7-Feb-2013	399617.23	1521136.33	3839.55	Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				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	7-Feb-2013	401200.32	1520639.92	3836.04	33.42	3802.62
	25-Oct-2012				34.61	3801.43
	1-Aug-2012				34.90	3801.14
	24-Apr-2012				33.49	3802.55
	24-Jan-2012				34.01	3802.03
	8-Dec-2011				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 DATADONA 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
833-03	7-Feb-2013	401392.09	1521955.23	3867.06	Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				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	7-Feb-2013	402898.52	1520659.33	3845.79	41.70	3804.09
	25-Oct-2012				41.83	3803.96
	1-Aug-2012				42.70	3803.09
	24-Apr-2012				42.32	3803.47
	24-Jan-2012				40.87	3804.92
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
833-05	7-Feb-2013	399712.39	1522374.73	3865.51	64.21	3801.30
	25-Oct-2012				64.60	3800.91
	1-Aug-2012				65.01	3800.50
	24-Apr-2012				64.40	3801.11
	24-Jan-2012				63.60	3801.91
	8-Dec-2011				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	7-Feb-2013	402219.48	1522652.04	3878.20	73.80	3804.40
	25-Oct-2012				73.93	3804.27
	1-Aug-2012				74.06	3804.14
	24-Apr-2012				73.97	3804.23
	24-Jan-2012				73.50	3804.70
	8-Dec-2011				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 DATADONA 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
833-07	7-Feb-2013	399298.8	1522082.75	3860.70	59.82	3800.88
	25-Oct-2012				60.22	3800.48
	1-Aug-2012				60.63	3800.07
	24-Apr-2012				60.25	3800.45
	24-Jan-2012				59.71	3800.99
	8-Dec-2011				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	7-Feb-2013	400535.64	1521938.23	3861.76	59.43	3802.33
	25-Oct-2012				59.75	3802.01
	1-Aug-2012				60.24	3801.52
	24-Apr-2012				59.81	3801.95
	24-Jan-2012				58.86	3802.90
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
833-09	7-Feb-2013	398280.67	1520918.52	3826.27	26.26	3800.01
	25-Oct-2012				26.30	3799.97
	1-Aug-2012				27.21	3799.06
	24-Apr-2012				26.44	3799.83
	24-Jan-2012				25.42	3800.85
	8-Dec-2011				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	7-Feb-2013	396715.89	1520283.6	3820.76	21.12	3799.64
	25-Oct-2012				20.93	3799.83
	1-Aug-2012				21.01	3799.75
	24-Apr-2012				21.11	3799.65
	24-Jan-2012				20.14	3800.62
	8-Dec-2011				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 DATADONA 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	7-Feb-2013	395856.31	1520572.16	3820.33	20.38	3799.95
	26-Oct-2012				21.04	3799.29
	1-Aug-2012				20.82	3799.51
	24-Apr-2012				21.01	3799.32
	24-Jan-2012				20.09	3800.24
	8-Dec-2011				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	7-Feb-2013	394728.34	1521030.29	3813.67	14.79	3798.88
	26-Oct-2012				15.06	3798.61
	1-Aug-2012				14.91	3798.76
	24-Apr-2012				15.27	3798.40
	24-Jan-2012				13.90	3799.77
	8-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
257-03	7-Feb-2013	397935.69	1518746.14	3814.74	12.31	3802.43
	26-Oct-2012				11.61	3803.13
	1-Aug-2012				10.06	3804.68
	24-Apr-2012				11.56	3803.18
	24-Jan-2012				10.89	3803.85
	1-Nov-2011				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	7-Feb-2013	397678.36	1519948.22	3814.04	13.11	3800.93
	26-Oct-2012				13.36	3800.68
	1-Aug-2012				13.05	3800.99
	24-Apr-2012				12.98	3801.06
	30-Jan-2012				12.26	3801.78
	1-Nov-2011				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 DATADONA 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
10-Jun-2008		8.33	--			
SOUTHERN AREA						
Del Oro Dairy						
692-01	7-Feb-2013	373615.88	1531529.38	3844.13	59.93	3784.20
	26-Oct-2012				60.10	3784.03
	1-Aug-2012				58.79	3785.34
	24-Apr-2012				58.43	3785.70
	25-Jan-2012				78.58	Pumping
	9-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
692-02	7-Feb-2013	372984.72	1531192.1	3840.84	56.86	3783.98
	25-Oct-2012				56.48	3784.36
	1-Aug-2012				56.03	3784.81
	24-Apr-2012				55.71	3785.13
	25-Jan-2012				54.70	3786.14
	13-Dec-2011				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	7-Feb-2013	372982.53	1531555.21	3842.66	58.05	3784.61
	25-Oct-2012				57.62	3785.04
	1-Aug-2012				57.34	3785.32
	24-Apr-2012				57.13	3785.53
	25-Jan-2012				56.34	3786.32
	9-Dec-2011				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 DATADONA 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
692-05	7-Feb-2013	374807.26	1532403	3854.26	78.86	3775.40
	26-Oct-2012				79.11	3775.15
	1-Aug-2012				78.80	3775.46
	24-Apr-2012				77.96	3776.30
	24-Jan-2012				76.80	3777.46
	9-Dec-2011				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	7-Feb-2013	375054.77	1532411.83	3856.48	80.88	3775.60
	26-Oct-2012				81.03	3775.45
	1-Aug-2012				80.69	3775.79
	24-Apr-2012				79.84	3776.64
	30-Jan-2012				78.99	3777.49
	9-Dec-2011				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				

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
692-07	7-Feb-2013	374944.88	1532019.81	3848.20	72.55	3775.65
	26-Oct-2012				72.78	3775.42
	1-Aug-2012				72.60	3775.60
	24-Apr-2012				71.84	3776.36
	24-Jan-2012				70.30	3777.90
	13-Dec-2011				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	7-Feb-2013	375535.69	1531378.09	3843.09	66.64	3776.45
	26-Oct-2012				67.17	3775.92
	1-Aug-2012				66.47	3776.62
	24-Apr-2012				65.84	3777.25
	30-Jan-2012				64.58	3778.51
	9-Dec-2011				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 DATADONA 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
692-09	7-Feb-2013	373575.83	1532395.09	3856.32	82.02	3774.30
	26-Oct-2012				82.18	3774.14
	1-Aug-2012				82.11	3774.21
	24-Apr-2012				81.17	3775.15
	25-Jan-2012				79.80	3776.52
	8-Dec-2011				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	7-Feb-2013	372097.86	1532364.36	3843.03	59.23	3783.80
	26-Oct-2012				58.85	3784.18
	2-Aug-2012				58.79	3784.24
	25-Apr-2012				58.28	3784.75
	9-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
MW-2	7-Feb-2013	NM	NM	3843.25	60.85	3782.40
	26-Oct-2012				60.42	3782.83
	2-Aug-2012				60.30	3782.95
	25-Apr-2012				59.94	3783.31
	30-Jan-2012				59.30	3783.95
	9-Dec-2011				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	7-Feb-2013	NM	NM	3841.24	58.36	3782.88
	26-Oct-2012				57.98	3783.26
	2-Aug-2012				57.81	3783.43
	25-Apr-2012				57.32	3783.92
	30-Jan-2012				56.80	3784.44
	8-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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						
DAD-01	8-Feb-2013	422970.59	1512825.76	3886.16	68.59	3817.57
	29-Oct-2012				68.12	3818.04
	30-Jul-2012				68.97	3817.19
	23-Apr-2012				68.19	3817.97
	25-Jan-2012				67.15	3819.01
	8-Dec-2011				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-Feb-2013	413002.98	1517319.93	3875.82	64.04	3811.78
	29-Oct-2012				64.11	3811.71
	31-Jul-2012				64.03	3811.79
	24-Apr-2012				63.45	3812.37
	25-Jan-2012				62.91	3812.91
	8-Dec-2011				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 DATADONA 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
DAD-03	8-Feb-2013	407721.31	1516497.85	3820.58	11.07	3809.51
	29-Oct-2012				10.93	3809.65
	31-Jul-2012				10.90	3809.68
	24-Apr-2012				10.97	3809.61
	25-Jan-2012				10.60	3809.98
	8-Dec-2011				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-Feb-2013	404576.66	1517413.28	3821.47	14.48	3806.99
	29-Oct-2012				15.10	3806.37
	31-Jul-2012				14.37	3807.10
	24-Apr-2012				14.27	3807.20
	25-Jan-2012				13.40	3808.07
	8-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
DAD-05	8-Feb-2013	396712.87	1519102.06	3816.01	15.08	3800.93
	29-Oct-2012				14.85	3801.16
	2-Aug-2012				14.17	3801.84
	24-Apr-2012				14.14	3801.87
	25-Jan-2012				14.11	3801.90
	8-Dec-2011				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-Feb-2013	404273.19	1522081.00	3887.71	82.38	3805.33
	29-Oct-2012				82.47	3805.24
	1-Aug-2012				82.20	3805.51
	24-Apr-2012				82.13	3805.58
	25-Jan-2012				81.32	3806.39
	8-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
DAD-07	8-Feb-2013	399270.18	1524320.88	3891.38	90.13	3801.25
	29-Oct-2012				90.34	3801.04
	2-Aug-2012				90.38	3801.00
	24-Apr-2012				90.25	3801.13
	25-Jan-2012				89.75	3801.63
	8-Dec-2011				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	8-Feb-2013	395287.38	1522575.07	3849.15	50.37	3798.78
	29-Oct-2012				49.86	3799.29
	1-Aug-2012				50.34	3798.81
	24-Apr-2012				50.34	3798.81
	25-Jan-2012				49.62	3799.53
	13-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
DAD-09	8-Feb-2013	373259.30	1530905.70	3838.03	54.67	3783.36
	29-Oct-2012				54.13	3783.90
	2-Aug-2012				53.86	3784.17
	24-Apr-2012				53.40	3784.63
	25-Jan-2012				52.67	3785.36
	13-Dec-2011				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
DAD-10	8-Feb-2013	372980.55	1532375.33	3854.93	80.87	3774.06
	29-Oct-2012				81.02	3773.91
	2-Aug-2012				81.47	3773.46
	24-Apr-2012				80.36	3774.57
	25-Jan-2012				78.76	3776.17
	13-Dec-2011				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

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
DAD-11 (177-03)	8-Feb-2013	416211.35	1513814.71	3835.90	19.28	3816.62
	29-Oct-2012				19.07	3816.83
	30-Jul-2012				18.57	3817.33
	24-Apr-2012				19.12	3816.78
	25-Jan-2012				18.40	3817.50
	13-Dec-2011				18.75	3817.15
	19-Jul-2011				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				
DAD-12	8-Feb-2013	419731.54	1512274.77	3866.72	49.36	3817.36
	29-Oct-2012				48.96	3817.76
	31-Jul-2012				48.59	3818.13
	23-Apr-2011				48.44	3818.28
	25-Jan-2012				48.01	3818.71
	6-Dec-2011				48.15	3818.57
DAD-13	8-Feb-2013	417879.08	1515673.13	3898.44	84.81	3813.63
	29-Oct-2012				85.39	3813.05
	30-Jul-2012				85.51	3812.93
	23-Apr-2012				83.56	3814.88
	25-Jan-2012				82.72	3815.72
	8-Dec-2011				82.88	3815.56

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
DAD-14	8-Feb-2013	414923.33	1514695.26	3841.90	27.31	3814.59
	25-Oct-2012				26.62	3815.28
	30-Jul-2012				25.85	3816.05
	24-Apr-2012				26.07	3815.83
	25-Jan-2012				26.10	3815.80
	8-Dec-2011				26.30	3815.60
DAD-15	8-Feb-2013	402001.22	1523552.04	3897.61	94.01	3803.60
	29-Oct-2012				93.78	3803.83
DAD-16	8-Feb-2013	400628.77	1519350.74	3819.28	17.20	3802.08
	29-Oct-2012				17.23	3802.05
	31-Jul-2012				18.58	3800.70
	24-Apr-2012				17.64	3801.64
	25-Jan-2012				16.50	3802.78
	8-Dec-2011				16.58	3802.70
DAD-17	8-Feb-2013	393991.97	1520267.94	3817.75	18.55	3799.20
	29-Oct-2012				19.18	3798.57
	2-Aug-2012				19.07	3798.68
	24-Apr-2012				21.01	3796.74
	25-Jan-2012				17.74	3800.01
	9-Dec-2011				19.21	3798.54
DAD-18	8-Feb-2013	395714.14	1520588.96	3821.59	22.04	3799.55
	29-Oct-2012				22.40	3799.19
	1-Aug-2012				22.43	3799.16
	24-Apr-2012				22.20	3799.39
	25-Jan-2012				21.33	3800.26
	6-Dec-2011				21.43	3800.16
DAD-19	8-Feb-2013	400164.47	1522027.92	3864.50	62.95	3801.55
	29-Oct-2012				62.30	3802.20
	1-Aug-2012				63.70	3800.80
	24-Apr-2012				63.31	3801.19
	25-Jan-2012				62.25	3802.25
	6-Dec-2011				62.29	3802.21
DAD-20	8-Feb-2013	371751.45	1531188.19	3833.27	52.29	3780.98
	7-Nov-2012				52.18	3781.09
	29-Oct-2012				Obstruction in Well	
	2-Aug-2012				Obstruction in Well	
	25-Apr-2012				Obstruction in Well	
	25-Jan-2012				50.65	3782.62
	6-Dec-2011				50.66	3782.61

**TABLE 1. SUMMARY OF MONITOR WELL FLUID GAUGING DATADONA 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
DAD-21	8-Feb-2013	374013.39	1530983.98	3839.62	55.10	3784.52
	29-Oct-2012				54.60	3785.02
	2-Aug-2012				54.31	3785.31
	24-Apr-2012				53.61	3786.01
	30-Jan-2012				53.44	3786.18
	6-Dec-2011				53.24	3786.38
DAD-22	8-Feb-2013	373029.62	1530352.69	3827.14	44.08	3783.06
	29-Oct-2012				44.51	3782.63
	2-Aug-2012				44.23	3782.91
	25-Apr-2012				43.86	3783.28
	25-Jan-2012				43.22	3783.92
	13-Dec-2011				43.27	3783.87

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 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 ₂ SO ₄ to pH2, Cool to <6°C	28 Days
Total Kjeldhal Nitrogen	SM 4500 NORG C	250 mL HDPE Bottle	H ₂ SO ₄ to pH2, 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 3. 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	28-Feb-13	10.0	<1.72	469	1,740	NA	
	3-Dec-12	10.7	<1.72	348	1,800	NA	
	21-Aug-12	9.98	<1.72	373	1,640	NA	
	9-May-12	6.88	2.80	401	1,660	NA	
	31-Jan-12	9.90	2.52	439	1,520	NA	
	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	
	NMED Split	9-Dec-09	7.5	1.5	550	2,010	NA
		9-Dec-09	7.3	2.8	468	356	264
29-Aug-09		7.3	<5.0	540	1,970	NA	
12-May-09		5.6	<1.0	540	1,800	NA	
DAD-02		1-Mar-13	8.52	<1.72	357	1,520	NA
	3-Dec-12	8.51	<1.72	345	1,800	NA	
	21-Aug-12	4.39	2.10	301	1,570	NA	
	9-May-12	7.71	<1.72	373	1,830	NA	
	31-Jan-12	7.66	<2.17	335	1,720	NA	
	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	
	NMED Split	9-Dec-09	9.0	<1.0	440	1,920	NA
		9-Dec-09	9	0.39	388	1,970	586
29-Aug-09		9.9	<2.0	490	1,890	NA	
14-May-09		7.4	<5.0	350	1,700	NA	
DAD-03		1-Mar-13	0.721	<1.72	1,220	3,720	NA
	3-Dec-12	1.1	<1.72	1,150	4,760	NA	
	21-Aug-12	<0.0290	2.80	1,090	3,920	NA	
	9-May-12	<0.114	2.66	1,200	4,160	NA	
	31-Jan-12	<0.500	4.34	1,340	4,350	NA	
	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	
	NMED Split	9-Dec-09	<10	<5.0	2,100	5,590	NA
		9-Dec-09	<0.1	0.88	1,570	5,300	1,160
29-Aug-09		<0.10	<5.0	1,400	4,420	NA	
12-May-09		<10	<5.0	1,200	5,000	NA	
DAD-04		1-Mar-13	2.12	<1.72	510	2,090	NA
	5-Dec-12	2.740	<1.72	545	2,430	NA	
	21-Aug-12	<0.0290	<1.72	496	2,620	NA	
	9-May-12	0.305	<1.72	502	1,970	NA	
	31-Jan-12	2.05	<2.17	493	2,320	NA	
	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	
	21-Mar-10	<2.0	<2.0	620	2,460	NA	
	NMED Split	9-Dec-09	<2.0	1.7	810	2,720	NA
		9-Dec-09	<0.1	1.2	659	2,630	373
29-Aug-09		<2.0	<5.0	690	2,690	NA	
13-May-09		<2.0	<5.0	690	2,700	NA	

**TABLE 3. 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	5-Mar-13	<0.246	<1.72	519	2,100	NA
	5-Dec-12	3.350	<1.72	690	2,930	NA
	22-Aug-12	<0.0290	<1.72	544	2,260	NA
	9-May-12	0.908	2.10	566	2,380	NA
	1-Feb-12	<0.500	<2.17	558	2,020	NA
	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
	9-Dec-09	<0.1	0.95	563	2,290	362
NMED Split	29-Aug-09	<2.0	<2.0	630	2,310	NA
	13-May-09	<2.0	<5.0	640	2,700	NA
	13-May-09	<10	1.6	618	2,260	NA
DAD-06	4-Mar-13	7.66	<1.72	496	1,510	NA
	5-Dec-12	8.25	<1.72	439	1,610	NA
	21-Aug-12	9.11	2.10	347	1,530	NA
	9-May-12	11.0	<1.72	375	1,570	NA
	31-Jan-12	13.6	<2.17	382	1,510	NA
	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
29-Aug-09		8.2	<5.0	390	1,260	NA
14-May-09		11	<5.0	350	1,300	NA
14-May-09		8.17	0.4	338	1,250	NA
DAD-07	5-Mar-13	8.15	<1.72	724	2,740	NA
	5-Dec-12	8.03	<1.72	718	2,610	NA
	22-Aug-12	6.88	<1.72	671	2,540	NA
	9-May-12	3.81	<1.72	588	2,150	NA
	31-Jan-12	5.40	<2.17	610	1,640	NA
	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
29-Aug-09		4.4	<5.0	610	1,780	NA
14-May-09		4.6	<1.0	530	1,800	NA
14-May-09		4.6	<1.0	530	1,800	NA
DAD-08	4-Mar-13	90.0	<1.72	2,280	7,060	NA
	5-Dec-12	40.2	<1.72	2,270	5,980	NA
	22-Aug-12	32.2	<1.72	2,430	7,220	NA
	9-May-12	2.39	<1.72	1,150	3,260	NA
	31-Jan-12	2.69	<2.17	1,250	2,990	NA
	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
29-Aug-09		<4.0	<2.0	1,500	3,180	NA
14-May-09		3.0	<5.0	1,300	3,600	NA
14-May-09		3.0	<5.0	1,300	3,600	NA

**TABLE 3. 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	6-Mar-13	17.1	<1.72	494	1,840	NA
	4-Dec-12	33.1	<1.72	588	2,200	NA
	20-Aug-12	48.4	<1.72	656	2,540	NA
	10-May-12	50.9	<1.72	561	2,270	NA
	31-Jan-12	59.8	<2.17	622	2,220	NA
	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
	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 Vertical Delineation	6-Mar-13	4.83	<1.72	468	1,620	NA
	4-Dec-12	4.33	<1.72	434	1,510	NA
	20-Aug-12	2.86	<1.72	389	2,520	NA
	10-May-12	1.52	<1.72	361	1,400	NA
	31-Jan-12	<0.500	<2.17	433	800	NA
	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
	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 Vertical Delineation (formerly 177-03)	1-Mar-13	14.6	<1.72	1,190	3,600	NA
	3-Dec-12	13.4	<1.72	1,210	3,870	NA
	21-Aug-12	8.71	<1.72	818	3,020	NA
	14-May-12	0.791	<1.72	359	1,550	NA
	1-Feb-12	2.38	<2.17	456	1,700	NA
	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	
DAD-12 Vertical Delineation	28-Feb-13	22.8	<1.72	688	2,820	NA
	3-Dec-12	16.4	<1.72	689	3,070	NA
	21-Aug-12	17.8	2.10	620	2,990	NA
	14-May-12	23.1	<1.72	561	2,870	NA
	1-Feb-12	20.8	<2.17	614	2,670	NA
	7-Dec-11	18.8	<2.17	597	2,620	616
DAD-13	28-Feb-13	5.63	<1.72	582	1,970	NA
	3-Dec-12	5.04	<1.72	504	1,810	NA
	21-Aug-12	3.51	<1.72	420	1,900	NA
	10-May-12	8.66	<1.72	514	2,010	NA
	1-Feb-12	7.59	<2.17	537	1,960	NA
	27-Oct-11	7.51	2.52	536	3,700	321
DAD-14	1-Mar-13	42.0	16.8	1,130	3,730	NA
	3-Dec-12	40.3	<1.72	1,150	4,010	NA
	21-Aug-12	33.2	<1.72	919	3,340	NA
	14-May-12	28.8	<1.72	881	3,280	NA
	1-Feb-12	20.3	<2.17	861	2,880	NA
	27-Oct-11	17.2	2.80	835	1,780	447

**TABLE 3. 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-15	4-Mar-13	5.10	<1.72	515	1,800	NA
	4-Dec-12	4.710	<1.72	484	1,810	256
	20-Aug-12	2.370	35.00	351	1,330	256
DAD-16	5-Mar-13	2.55	<1.72	674	2,670	NA
	5-Dec-12	2.420	<1.72	529	2,280	NA
	22-Aug-12	<0.0290	<1.72	472	2,000	NA
	14-May-12	0.147	<1.72	378	2,080	NA
	1-Feb-12	<0.500	<2.17	438	1,960	NA
	27-Oct-11	<0.500	3.36	410	1,520	408
DAD-17	5-Mar-13	2.06	<1.72	351	1,550	NA
	5-Dec-12	2.28	<1.72	230	1,260	NA
	22-Aug-12	<0.0290	<1.72	189	930	NA
	10-May-12	<0.114	<1.72	353	1,580	NA
	1-Feb-12	<0.500	3.36	113	714	NA
	26-Oct-11	<0.500	3.50	175	724	186
DAD-18 Vertical Delineation	5-Mar-13	11.2	<1.72	712	2,700	NA
	5-Dec-12	10.10	<1.72	643	2,690	NA
	22-Aug-12	9.03	4.62	642	2,790	NA
	10-May-12	9.11	<1.72	558	2,700	NA
	1-Feb-12	9.62	<2.17	629	2,470	NA
	7-Dec-11	9.21	<2.17	639	2,670	495
DAD-19 Vertical Delineation	4-Mar-13	69.1	<1.72	986	3,430	NA
	5-Dec-12	54.2	<1.72	851	3,230	NA
	21-Aug-12	59.2	<1.72	843	3,470	NA
	10-May-12	54.8	<1.72	835	3,460	NA
	1-Feb-12	59.8	<2.17	913	2,950	NA
	7-Dec-11	47.4	<2.17	789	3,070	544
DAD-20	6-Mar-13	29.5	<1.72	710	2,280	NA
	4-Dec-12	17.0	<1.72	704	2,350	NA
	10-May-12	Obstruction in Well				
	31-Jan-12	21.2	<2.17	568	1,000	NA
	7-Dec-11	16.1	<2.17	611	2,020	383
DAD-21	6-Mar-13	5.76	<1.72	516	1,910	NA
	4-Dec-12	3.47	<1.72	445	1,720	NA
	20-Aug-12	3.45	<1.72	409	1,660	NA
	10-May-12	1.16	<1.72	364	2,840	NA
	31-Jan-12	6.79	2.94	475	1,620	NA
	7-Dec-11	2.14	<2.17	396	1,600	219
DAD-22	6-Mar-13	8.25	<1.72	909	2,610	NA
	4-Dec-12	12.0	<1.72	886	2,740	NA
	20-Aug-12	15.3	2.10	878	2,280	NA
	10-May-12	18.3	<1.72	818	1,580	NA
	1-Feb-12	23.6	<2.17	908	3,000	NA
	26-Oct-11	29.5	2.52	781	3,860	494
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 4. 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	13-Feb-13	59.1	<1.72	3,400	8,440
	7-Nov-12	49.5	<1.72	2,850	7,950
	7-Aug-12	45.3	2.94	2,440	6,700
	25-Apr-12	53.1	5.60	2,540	6,550
	2-Feb-12	67.6	<2.17	2,840	7,480
	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	13-Feb-13	16.6	<1.72	2,170	6,660
	5-Nov-12	12.7	<1.72	2,120	4,940
	6-Aug-12	17.1	<1.72	1,870	6,400
	25-Apr-12	11.8	<1.72	1,620	4,280
	2-Feb-12	20.0	8.12	1,750	5,440
	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	13-Feb-13	12.2	<1.72	571	2,780
	5-Nov-12	12.1	<1.72	638	2,860
	6-Aug-12	11.6	<1.72	708	3,410
	25-Apr-12	12.1	<1.72	641	2,480
	2-Feb-12	12.3	<2.17	655	2,960
	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	

**TABLE 4. 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)
Former Daybreak Dairy (Del Norte Dairy)					
126-04	12-Feb-13	18.5	<1.72	614	2,640
	7-Nov-12	16.0	3.50	572	2,500
	7-Aug-12	15.9	2.10	568	2,370
	30-Apr-12	15.7	<1.72	539	2,310
	26-Jan-12	17.4	<2.17	560	1,700
	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	
126-05	12-Feb-13	34.2	<1.72	618	3,180
	7-Nov-12	29.2	<1.72	548	2,890
	7-Aug-12	30.8	2.10	548	2,860
	30-Apr-12	28.6	2.38	530	2,840
	26-Jan-12	30.1	<2.17	546	2,520
	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	12-Feb-13	21.2	<1.72	648	2,740
	7-Nov-12	19.8	<1.72	629	2,870
	7-Aug-12	19.5	2.10	650	2,610
	30-Apr-12	18.8	<1.72	605	2,710
	26-Jan-12	18.8	2.24	666	2,790
	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	

**TABLE 4. 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)
126-09	12-Feb-13	2.50	<1.72	991	3,090
	7-Nov-12	2.53	<1.72	984	2,980
	7-Aug-12	2.69	2.10	962	3,050
	30-Apr-12	2.28	5.04	978	2,900
	26-Jan-12	3.93	7.00	1,100	3,180
	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	12-Feb-13	18.8	<1.72	421	2,480
	7-Nov-12	19.2	<1.72	407	2,490
	7-Aug-12	17.5	<1.72	410	2,460
	30-Apr-12	12.9	1.96	401	2,270
	14-Feb-12	12.5	4.20	418	2,340
	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	12-Feb-13	33.7	<1.72	735	2,840
	7-Nov-12	23.8	2.10	751	3,090
	7-Aug-12	26.1	2.10	779	2,860
	30-Apr-12	43.8	<1.72	784	3,120
	26-Jan-12	27.5	<2.17	735	2,800
	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 4. 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	13-Feb-13	24.7	<1.72	655	2,680
	7-Nov-12	21.2	<1.72	636	2,700
	7-Aug-12	21.4	2.10	637	2,700
	25-Apr-12	21.7	<1.72	659	2,490
	2-Feb-12	21.5	2.94	633	2,530
	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	13-Feb-13	38.1	<1.72	841	3,160
	7-Nov-12	36.2	<1.72	820	3,300
	7-Aug-12	36.3	3.78	826	3,260
	25-Apr-12	37.9	<1.72	749	2,260
	2-Feb-12	37.5	<2.17	829	3,160
	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	
70-04	11-Jan-13	19.5	<1.72	613	6,200
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	

**TABLE 4. 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)
Bright Star Dairy					
340-01	13-Feb-13	27.0	<1.72	711	3,340
	5-Nov-12	23.8	<1.72	855	3,180
	6-Aug-12	22.7	<1.72	694	3,380
	25-Apr-12	26.3	61.0	681	2,540
	2-Feb-12	27.4	<2.17	661	2,780
	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	
340-02	13-Feb-13	81.6	<1.72	805	3,550
	5-Nov-12	73.8	4.90	923	3,220
	6-Aug-12	74.0	<1.72	749	3,380
	25-Apr-12	69.8	6.16	727	2,890
	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	15-Feb-13	17.6	<1.72	457	2,360
	09-Nov-12	8.99	<1.72	412	2,180
	08-Aug-12	7.73	<1.72	400	1,830
	01-May-12	22.5	<1.72	431	2,210
	16-Feb-12	24.5	<2.17	465	2,770
	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	

**TABLE 4. 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)
42-03	15-Feb-13	60.3	<1.72	1,140	3,800
	9-Nov-12	56.2	<1.72	1,120	3,800
	8-Aug-12	71.1	<1.72	1,370	3,520
	1-May-12	51.5	<1.72	1,030	3,620
	16-Feb-12	51.3	<2.17	1,130	3,760
	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	15-Feb-13	82.9	<1.72	457	2,430
	9-Nov-12	75.9	<1.72	478	2,570
	8-Aug-12	81.5	1.82	484	2,475
	1-May-12	87.0	1.96	720	2,920
	16-Feb-12	92.4	<2.17	630	3,100
	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	15-Feb-13				Dry
	9-Nov-12				Dry
	8-Aug-12				Dry
	1-May-12				Dry
	16-Feb-12				Dry
	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 4. 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	15-Feb-13	31.8	<1.72	284	1,860
	9-Nov-12	30.4	<1.72	283	1,930
	8-Aug-12	36.4	<1.72	307	1,938
	1-May-12	36.0	<1.72	246	1,700
	16-Feb-12	37.0	<2.17	254	1,850
	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	15-Feb-13	47.0	<1.72	653	2,870
	9-Nov-12	48.4	<1.72	641	3,030
	8-Aug-12	49.5	<1.72	597	2,475
	1-May-12	50.3	<1.72	542	2,820
	16-Feb-12	50.7	<2.17	627	2,920
	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	15-Feb-13	<0.246	<1.72	415	1,380
	9-Nov-12	<0.0290	<1.72	397	1,350
	8-Aug-12	0.186	<1.72	403	1,328
	1-May-12	0.236	<1.72	363	1,260
	16-Feb-12	<0.500	<2.17	419	1,440
	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	

**TABLE 4. 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)
42-11	15-Feb-13	1.64	<1.72	327	1,210
	9-Nov-12	<0.0290	<1.72	315	1,230
	8-Aug-12	1.21	<1.72	308	1,182
	1-May-12	1.24	<1.72	274	1,160
	16-Feb-12	<0.500	<2.17	337	1,240
	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	15-Feb-13	1.72	<1.72	332	1,170
	9-Nov-12	<0.0290	<1.72	315	1,170
	8-Aug-12	1.15	2.66	333	1,134
	1-May-12	0.750	<1.72	282	1,180
	16-Feb-12	<0.500	<2.17	341	1,200
	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	
42-13	15-Feb-13	54.3	<1.72	855	3,430
	9-Nov-12	52.2	<1.72	835	3,250
	8-Aug-12	62.3	<1.72	871	3,110
	1-May-12	81.5	<1.72	902	3,550
	16-Feb-12	99.1	<2.17	1,020	3,880
	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	

**TABLE 4. 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)
Dominguez					
624-01	14-Feb-13	15.6	<1.72	827	2,980
	12-Nov-12	12.2	<1.72	652	2,590
	9-Aug-12	17.4	2.80	1,080	3,550
	30-Apr-12	8.69	36.4	1,400	4,180
	7-Feb-12	10.0	9.52	1,420	3,180
	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	14-Feb-13	9.30	2.10	1,110	3,580
	12-Nov-12	12.7	<1.72	1,170	3,830
	9-Aug-12	9.69	<1.72	1,300	4,010
	30-Apr-12	16.4	4.06	1,160	3,650
	7-Feb-12	14.8	<2.17	1,200	3,720
	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	14-Feb-13	Dry			
	12-Nov-12	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Dry			
	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	

**TABLE 4. 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)
624-05	14-Feb-13	6.72	<1.72	508	2,040
	12-Nov-12	4.82	<1.72	440	2,200
	9-Aug-12	4.11	1.82	472	2,050
	30-Apr-12	3.70	2.10	346	1,710
	7-Feb-12	3.38	<2.17	411	2,040
	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	
624-06	14-Feb-13	31.5	<1.72	1,150	3,600
	12-Nov-12	28.3	<1.72	1,060	3,840
	9-Aug-12	30.8	7.56	1,080	3,420
	30-Apr-12	31.1	8.40	1,010	3,300
	7-Feb-12	30.9	6.30	1,080	3,020
	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	14-Feb-13	Dry			
	12-Nov-12	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Not Sampled - insufficient water to sample			
	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	

**TABLE 4. 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)
624-08	14-Feb-13	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Dry			
	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	19-Feb-13	28.4	<1.72	1,310	3,930
	13-Nov-12	27.7	<1.72	1,190	3,780
	13-Aug-12	27.3	2.52	1,160	3,790
	26-Apr-12	28.5	<1.72	1,460	3,500
	6-Feb-12	28.1	<2.17	1,180	3,650
	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	
177-02	19-Feb-13	29.3	<1.72	902	3,100
	13-Nov-12	35.8	<1.72	870	3,320
	13-Aug-12	47.4	7.70	899	3,650
	26-Apr-12	36.0	<1.72	881	2,960
	6-Feb-12	37.0	<2.17	958	3,320
	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	

**TABLE 4. 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)
177-03A	18-Feb-13	15.5	<1.72	1,290	3,900
	13-Nov-12	12.2	<1.72	1,150	3,900
	13-Aug-12	7.86	<1.72	835	2,810
	26-Apr-12	1.16	<1.72	378	1,430
	6-Feb-12	2.00	<2.17	452	1,580
	4-Nov-11	<0.500	3.50	436	1,850
177-04	18-Feb-13	20.5	<1.72	1,120	3,450
	13-Nov-12	22.3	<1.72	1,070	3,630
	13-Aug-12	19.7	<1.72	1,000	3,720
	26-Apr-12	21.7	<1.72	1,050	3,480
	2-Feb-12	22.5	<2.17	1,100	3,650
	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	18-Feb-13	32.6	<1.72	1,430	3,900
	13-Nov-12	37.1	<1.72	1,240	4,050
	13-Aug-12	37.6	2.66	1,390	4,360
	26-Apr-12	47.1	<1.72	1,090	3,440
	2-Feb-12	42.2	<2.17	1,170	3,590
	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	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-06	18-Feb-13	17.4	<1.72	963	3,000
	13-Nov-12	16.1	<1.72	918	3,020
	26-Apr-12	Dry			
	2-Feb-12	16.1	4.76	934	2,940
	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	19-Feb-13	31.0	<1.72	976	3,360
	13-Nov-12	31.0	<1.72	1,040	3,570
	13-Aug-12	26.5	<1.72	1,040	3,670
	26-Apr-12	22.8	<1.72	1,010	2,690
	6-Feb-12	28.5	5.60	1,060	2,730
	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	
Central Area					
Buena Vista Dairy II					
74-01	19-Feb-13	59.1	<1.72	840	3,140
	14-Nov-12	94.2	8.40	963	3,510
	10-Aug-12	78.6	3.50	922	2,150
	3-May-12	65.3	<1.72	778	3,265
	8-Feb-12	Not Sampled			
	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	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
74-02	19-Feb-13	13.9	<1.72	525	1,900
	14-Nov-12	12.7	2.10	484	2,150
	10-Aug-12	14.0	2.10	532	2,060
	3-May-12	16.4	<1.72	495	1,980
	8-Feb-12	15.2	5.46	519	2,150
	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	19-Feb-13	2.81	<1.72	1,250	4,480
	14-Nov-12	1.06	<1.72	1,300	4,440
	10-Aug-12	2.25	<1.72	1,450	4,900
	3-May-12	9.92	<1.72	1,330	3,920
	8-Feb-12	11.0	<2.17	1,420	4,170
	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	20-Feb-13	18.5	<1.72	499	1,960
	14-Nov-12	19.3	<1.72	499	2,140
	10-Aug-12	18.8	<1.72	477	1,920
	3-May-12	33.6	<1.72	436	1,800
	8-Feb-12	31.6	<2.17	473	2,020
	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	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
74-05	20-Feb-13	17.8	<1.72	470	1,870
	14-Nov-12	17.0	<1.72	219	1,900
	10-Aug-12	18.0	<1.72	463	1,800
	3-May-12	18.0	<1.72	421	1,900
	8-Feb-12	17.4	<2.17	442	1,960
	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	
River Valley Dairy					
167-01	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	2-May-12	Not Sampled			
	30-Jan-12	Not Sampled			
	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	Not Sampled				
167-01A	20-Feb-13	1.10	<1.72	845	3,360
	15-Nov-12	4.02	<1.72	778	3,440
	14-Aug-12	1.78	4.20	888	3,260
	2-May-12	2.55	1.82	781	3,180
	30-Jan-12	2.54	3.50	755	2,940
	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	

**TABLE 4. 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)
167-02	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	30-Jan-12	Not Sampled			
	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	21-Feb-13	13.0	<1.72	500	1,950
	15-Nov-12	15.0	<1.72	503	2,150
	14-Aug-12	16.6	<1.72	500	2,350
	2-May-12	17.5	<1.72	499	2,220
	27-Jan-12	21.0	<2.17	572	2,250
	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	20-Feb-13	21.9	<1.72	1,320	4,660
	15-Nov-12	7.77	<1.72	1,150	4,380
	14-Aug-12	23.2	2.10	1,110	4,540
	2-May-12	18.6	13.6	1,050	4,020
	27-Jan-12	15.6	3.50	1,500	4,840
	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 4. 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	21-Feb-13	3.73	<1.72	842	3,360
	19-Nov-12	2.31	<1.72	805	3,480
	14-Aug-12	1.48	<1.72	1,630	3,220
	2-May-12	3.50	2.24	777	3,180
	30-Jan-12	4.40	<2.17	808	3,140
	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	20-Feb-13	22.8	<1.72	725	2,660
	19-Nov-12	23.7	<1.72	718	2,980
	14-Aug-12	25.1	<1.72	677	2,910
	2-May-12	27.2	<1.72	688	2,480
	30-Jan-12	29.1	<2.17	754	2,880
	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	20-Feb-13	<0.246	<1.72	446	3,640
	15-Nov-12	<0.0595	<1.72	498	3,280
	14-Aug-12	<0.114	4.06	1,160	6,090
	2-May-12	0.0285	<1.72	367	1,890
	30-Jan-12	<0.500	<2.17	411	1,850
	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	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
167-08	25-Feb-13	0.895	<1.72	827	2,640
	15-Nov-12	Well Damaged - Not Sampled			
	14-Aug-12	0.192	<1.72	788	2,860
	2-May-12	0.399	<1.72	744	2,580
	30-Jan-12	<0.500	<2.17	805	2,440
	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	21-Feb-13	4.51	<1.72	959	3,580
	19-Nov-12	12.8	<1.72	979	3,560
	14-Aug-12	8.47	2.10	916	3,760
	2-May-12	14.5	<1.72	1,070	4,000
	30-Jan-12	13.2	2.80	1,010	3,590
	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	
Big Sky Dairy					
833-01	26-Feb-13	Dry			
	19-Nov-12	Dry			
	15-Aug-12	Dry			
	7-May-12	Dry			
	15-Feb-12	Dry			
	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	

**TABLE 4. 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)
833-02	25-Feb-13	97.0	<1.72	1,110	3,820
	19-Nov-12	84.3	2.10	1,030	4,020
	15-Aug-12	37.5	2.94	535	2,440
	7-May-12	43.3	65.1	635	2,420
	15-Feb-12	87.2	4.34	889	3,660
	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	25-Feb-13	Dry			
	19-Nov-12	Dry			
	15-Aug-12	Dry			
	3-May-12	Dry			
	15-Feb-12	Dry			
	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	25-Feb-13	2.45	<1.72	1050	3,600
	19-Nov-12	50.0	<1.72	1010	3,770
	15-Aug-12	32.7	2.66	783	2,680
	3-May-12	24.1	<1.72	623	2,920
	15-Feb-12	49.9	<2.17	942	3,320
	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	

**TABLE 4. 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)
833-05	26-Feb-13	16.8	<1.72	1,270	3,140
	20-Nov-12	15.0	2.10	1,070	3,100
	15-Aug-12	13.9	<1.72	1,100	3,250
	3-May-12	12.8	<1.72	1,030	2,790
	15-Feb-12	14.9	<2.17	1,230	3,100
	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	
833-06	25-Feb-13	21.6	<1.72	924	2,750
	19-Nov-12	24.2	<1.72	920	2,840
	15-Aug-12	23.4	<1.72	845	2,670
	3-May-12	20.7	<1.72	702	2,560
	14-Feb-12	26.4	<2.17	727	2,480
	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	26-Feb-13	95.5	<1.72	1,470	4,500
	20-Nov-12	95.1	<1.72	1,130	4,290
	15-Aug-12	99.8	2.52	1,540	5,110
	7-May-12	95.6	7.56	1,460	4,880
	15-Feb-12	90.3	<2.17	1,340	4,660
	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	

**TABLE 4. 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)
833-08	26-Feb-13	83.1	<1.72	877	2,940
	20-Nov-12	60.8	<1.72	1,070	3,580
	15-Aug-12	57.8	2.52	987	3,480
	3-May-12	61.4	<1.72	927	3,040
	15-Feb-12	77.6	<2.17	1,020	3,200
	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	28-Feb-13	101	<1.72	876	4,060
	20-Nov-12	89.6	<1.72	731	3,760
	15-Aug-12	99.3	<1.72	875	3,780
	7-May-12	80.4	<1.72	745	3,830
	15-Feb-12	94.8	<2.17	725	3,580
	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	28-Feb-13	4.19	<1.72	689	2,640
	20-Nov-12	4.25	<1.72	608	2,540
	15-Aug-12	4.93	2.52	585	2,530
	7-May-12	3.95	<1.72	581	2,350
	15-Feb-12	3.18	<2.17	582	2,440
	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 4. 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	21-Feb-13	28.3	<1.72	665	3,200
	21-Nov-12	24.7	2.80	625	3,130
	16-Aug-12	23.2	<1.72	617	3,060
	26-Apr-12	23.7	22.7	680	2,920
	9-Feb-12	19.4	<2.17	603	2,940
	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	21-Feb-13	10.3	<1.72	470	1,980
	21-Nov-12	10.0	2.80	468	2,060
	16-Aug-12	14.8	<1.72	484	2,170
	26-Apr-12	23.2	8.40	505	1,840
	9-Feb-12	11.1	<2.17	443	1,840
	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	21-Feb-13	2.65	<1.72	520	2,060
	21-Nov-12	3.11	2.80	490	2,250
	16-Aug-12	17.6	2.10	509	2,420
	26-Apr-12	6.60	4.20	601	2,330
	14-Feb-12	11.2	<2.17	636	2,620
	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	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
257/260-01	21-Feb-13	9.35	<1.72	816	2,980
	21-Nov-12	13.0	3.50	722	3,020
	16-Aug-12	3.67	6.30	667	2,620
	26-Apr-12	6.83	2.80	575	2,660
	14-Feb-12	9.68	<2.17	565	2,180
	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
Southern Area					
Del Oro Dairy					
692-01	27-Feb-13	87.9	<1.72	654	2,690
	30-Nov-12	117	<1.72	821	3,490
	20-Aug-12	Pump was not operational			
	8-May-12	163	<1.72	1,060	4,820
	17-Feb-12	166	7.28	1,090	4,000
	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	27-Feb-13	3.37	<1.72	396	1,520
	30-Nov-12	<0.0290	<1.72	358	1,450
	20-Aug-12	1.72	<1.72	371	1,460
	8-May-12	1.75	<1.72	339	1,350
	17-Feb-12	2.55	<2.17	410	1,490
	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	

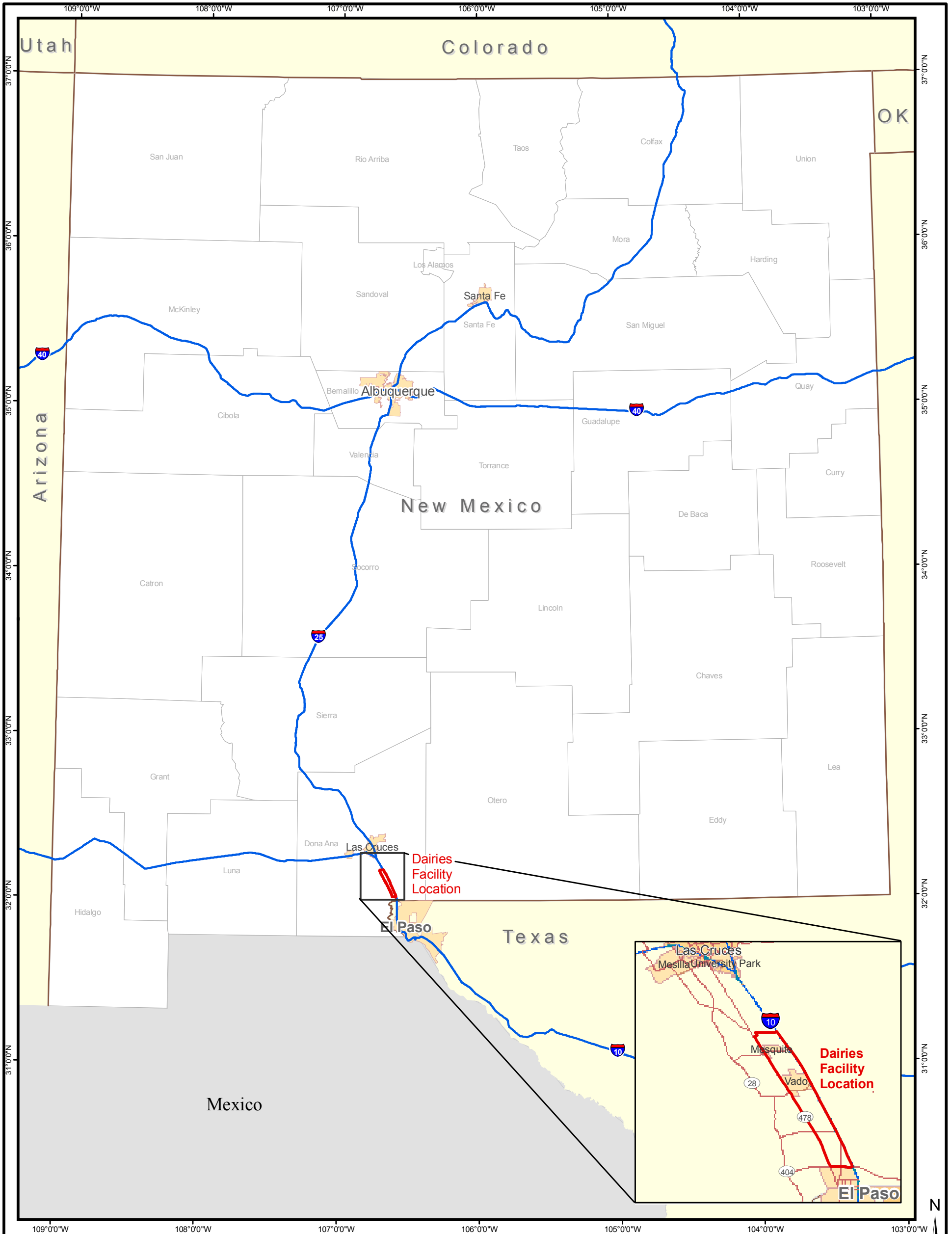
**TABLE 4. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
692-03	30-Mar-10	Plugged and Abandoned			
	4-May-09				
692-04	27-Feb-13	25.2	<1.72	625	2,390
	30-Nov-12	24.3	<1.72	573	2,540
	20-Aug-12	42.1	<1.72	689	2,850
	8-May-12	39.6	<1.72	652	2,490
	17-Feb-12	30.2	<2.17	557	2,060
	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	27-Feb-13	2.16	<1.72	410	1,340
	29-Nov-12	2.28	<1.72	397	1,370
	16-Aug-12	2.73	17.6	455	1,520
	7-May-12	1.92	3.08	420	1,570
	17-Feb-12	2.52	<2.17	423	1,310
	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	27-Feb-13	2.81	<1.72	412	1,390
	4-Dec-12	2.19	<1.72	395	1,380
	16-Aug-12	3.24	3.36	418	1,400
	8-May-12	2.62	<1.72	397	1,620
	17-Feb-12	9.39	<2.17	459	1,200
	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 4. 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	27-Feb-13	3.82	<1.72	563	1,630
	30-Nov-12	4.05	<1.72	535	1,660
	16-Aug-12	5.36	3.50	549	1,780
	8-May-12	3.55	<1.72	530	1,780
	17-Feb-12	4.76	<2.17	518	1,600
	12-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-11	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	27-Feb-13	6.27	<1.72	424	1,380
	30-Nov-12	11.70	<1.72	393	1,500
	20-Aug-12	2.98	<1.72	410	1,340
	8-May-12	1.84	<1.72	364	1,560
	17-Feb-12	3.94	<2.17	452	1,390
	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	27-Feb-13	9.50	<1.72	465	1,440
	29-Nov-12	7.91	13.3	425	1,410
	20-Aug-12	7.71	<1.72	400	1,480
	7-May-12	7.80	<1.72	391	1,470
	17-Feb-12	6.89	<2.17	457	1,450
	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

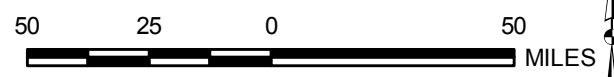


LEGEND:


 Facility Boundary

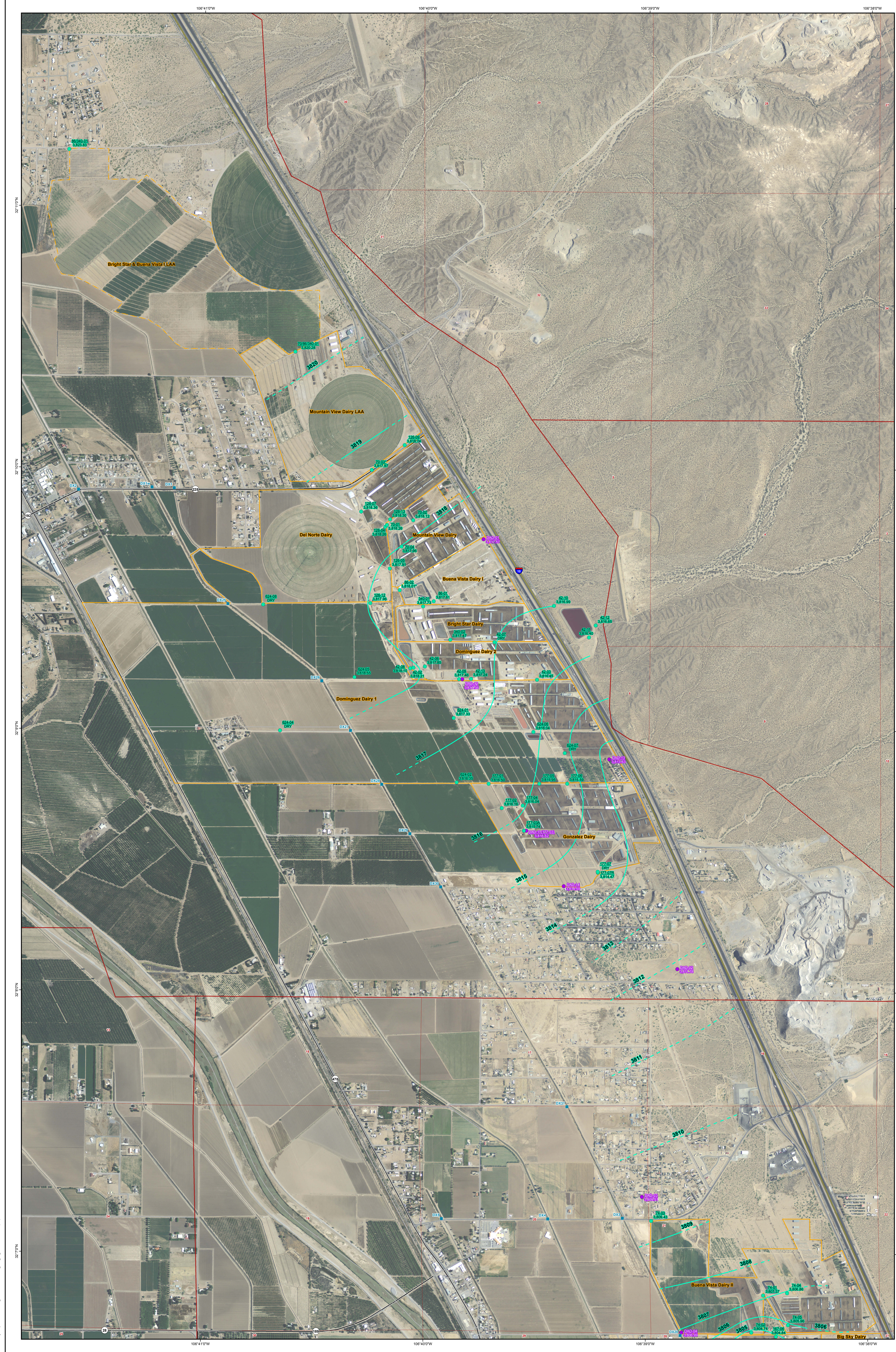
REFERENCES

Base Data: ESRI, 2008.



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

PROJECT		DOÑA ANA DAIRIES MESQUITE, NEW MEXICO	
TITLE		SITE LOCATION MAP	
	PROJECT No.	11x17_siteloc.mxd	
	DESIGN		SCALE AS SHOWN
	GIS		REV 0
	CHECK		
REVIEW			
			FIGURE 1



- LEGEND**
- Drain Crossing 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:
 * = Suspect Data (Point not used in contouring)

REFERENCES

Roads: Doña Ana County, 2001
 Aerial Photography: NARP, 2011
 PLSS: BLM, 2000
 Projection: State Plane NAD 83 New Mexico Central (feet)

0 250 0 500
 FEET
 SCALE: 1/8" = 750 FT
 WHEN PRODUCED AT 34x44 IN

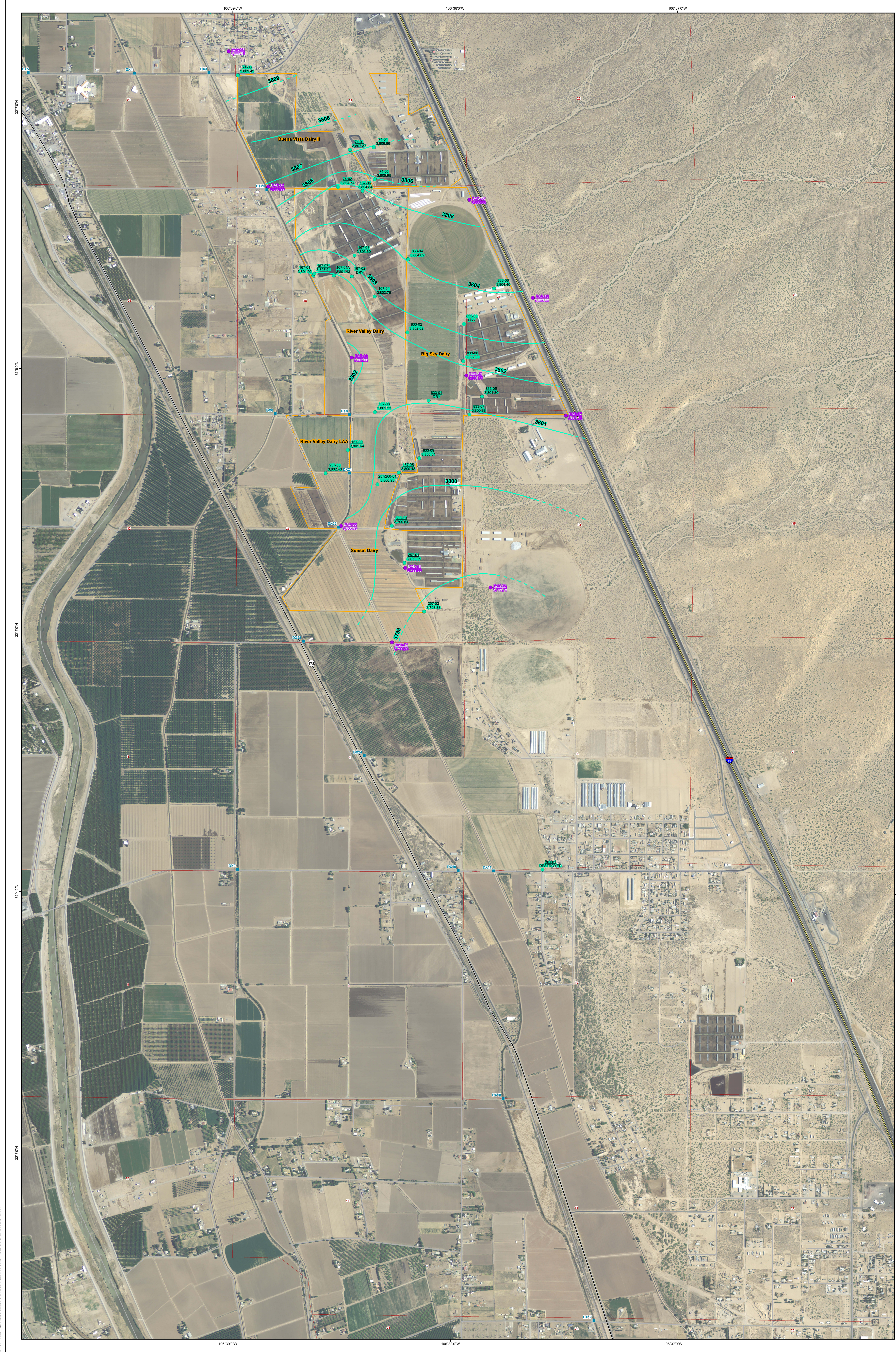
PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

MAP: POTENTIOMETRIC SURFACE MAP,
 FEBRUARY 2013, NORTHERN PORTION

DATE:	02/13/2013	BY:	EA
SCALE:	1/8" = 750 FT	PROJECT NO.:	13-001
PROJECT NO.:	13-001	DATE:	02/13/2013
DATE:	02/13/2013	BY:	EA

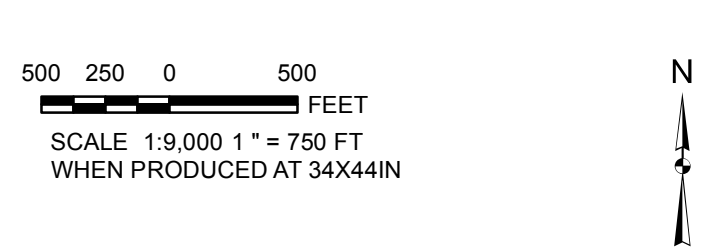
FIGURE 2

2013-02-13 10:45:00 AM \\p01\proj\13-001\13-001_POTENTIOMETRIC_SURFACE_MAP_021313.dwg EA



- LEGEND**
- Drain Crossing 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:
 * = Suspect Data (Point not used in contouring)

REFERENCES
 Roads: Doña Ana County, 2001
 Aerial Photography: NARP, 2011
 PLSS: BLM, 2000
 Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

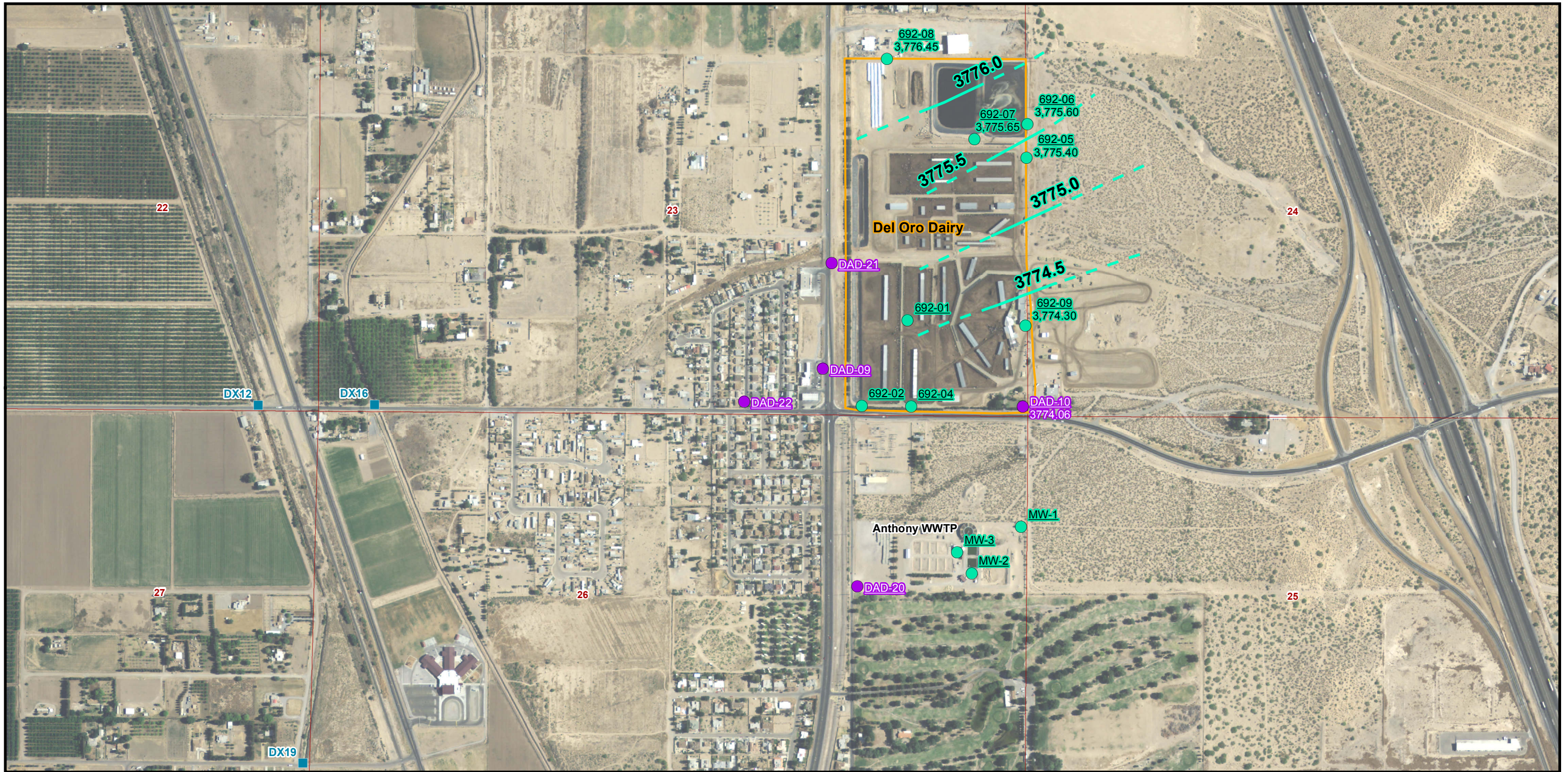
DATE: FEBRUARY 2013, CENTRAL PORTION

PROJECT NO.	DOÑA ANA DAIRIES 2013-01
DATE	02-14-2013
SCALE	1:9,000
FIGURE	3

EA ENGINEERING ARCHITECTURE

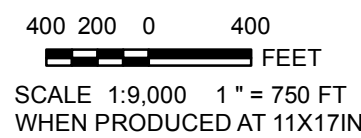
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2013-05-13 P:\gis\Projects\doña ana\Dallas_GIS\MXDs\201302\Fig 4 SouthRegionAq_Pot_201302.mxd EA-Dallas rmullen



LEGEND:

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

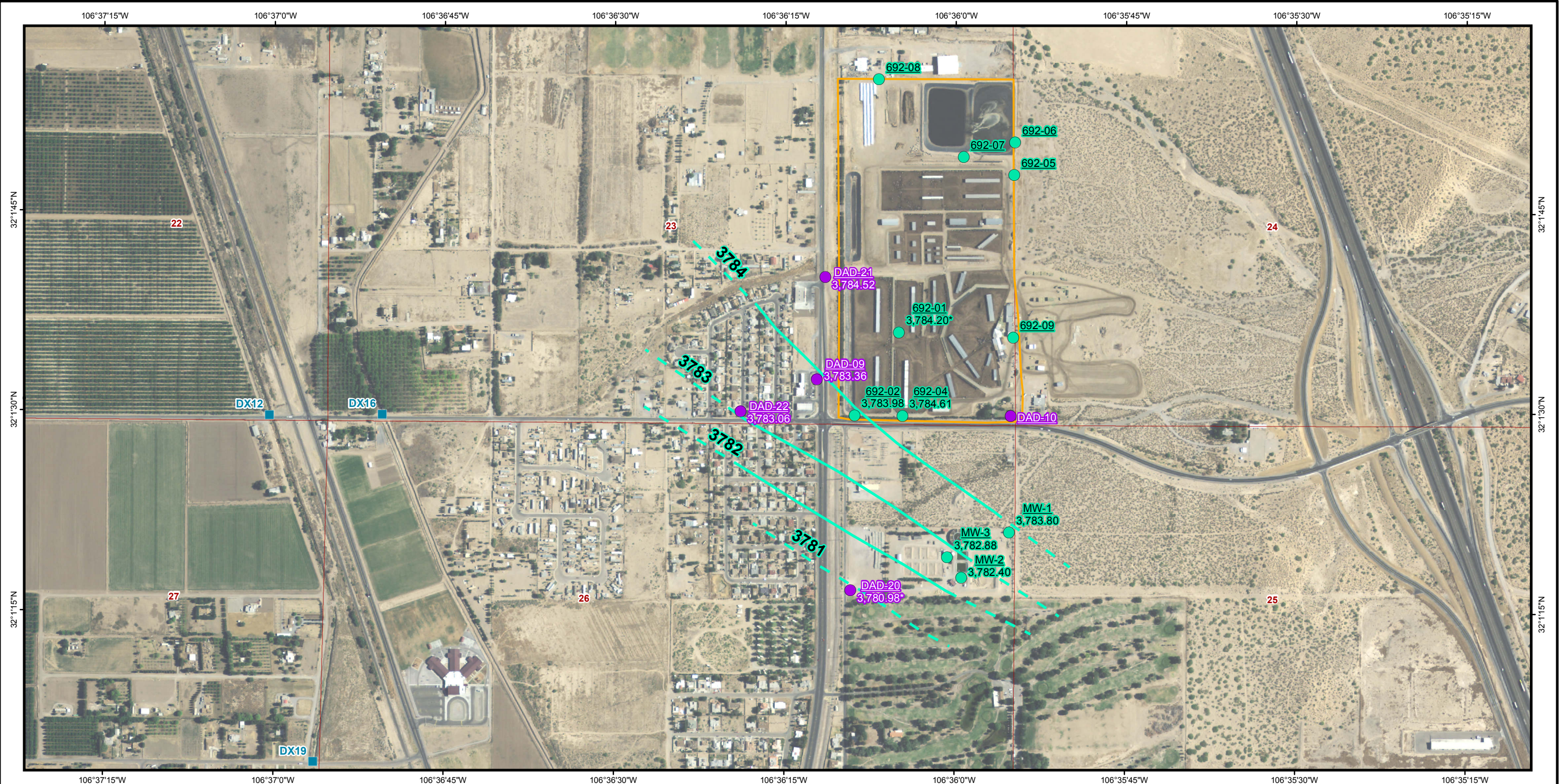


REFERENCES

Aerial Photography: NAIP, 2011
 PLSS: BLM, 2000
 Projection: State Plane NAD 83 New Mexico Central (feet)

PROJECT		DOÑA ANA DAIRIES MESQUITE, NEW MEXICO	
TITLE		POTENTIOMETRIC SURFACE MAP, FEBRUARY 2013, SOUTHERN PORTION REGIONAL AQUIFER	
	PROJECT No.	deloro_pot_regional200908.mxd	
	DESIGN		SCALE AS SHOWN REV 0
	GIS		FIGURE 4
	CHECK REVIEW		

2013-05-08 P:\gis\Projects\doña ana\Dallas_GIS\MapDocs\201302\Fig 5 SouthPerchAq_Pot_201302.mxd EA-Dallas rmullen



LEGEND:

- Drain Crossing 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

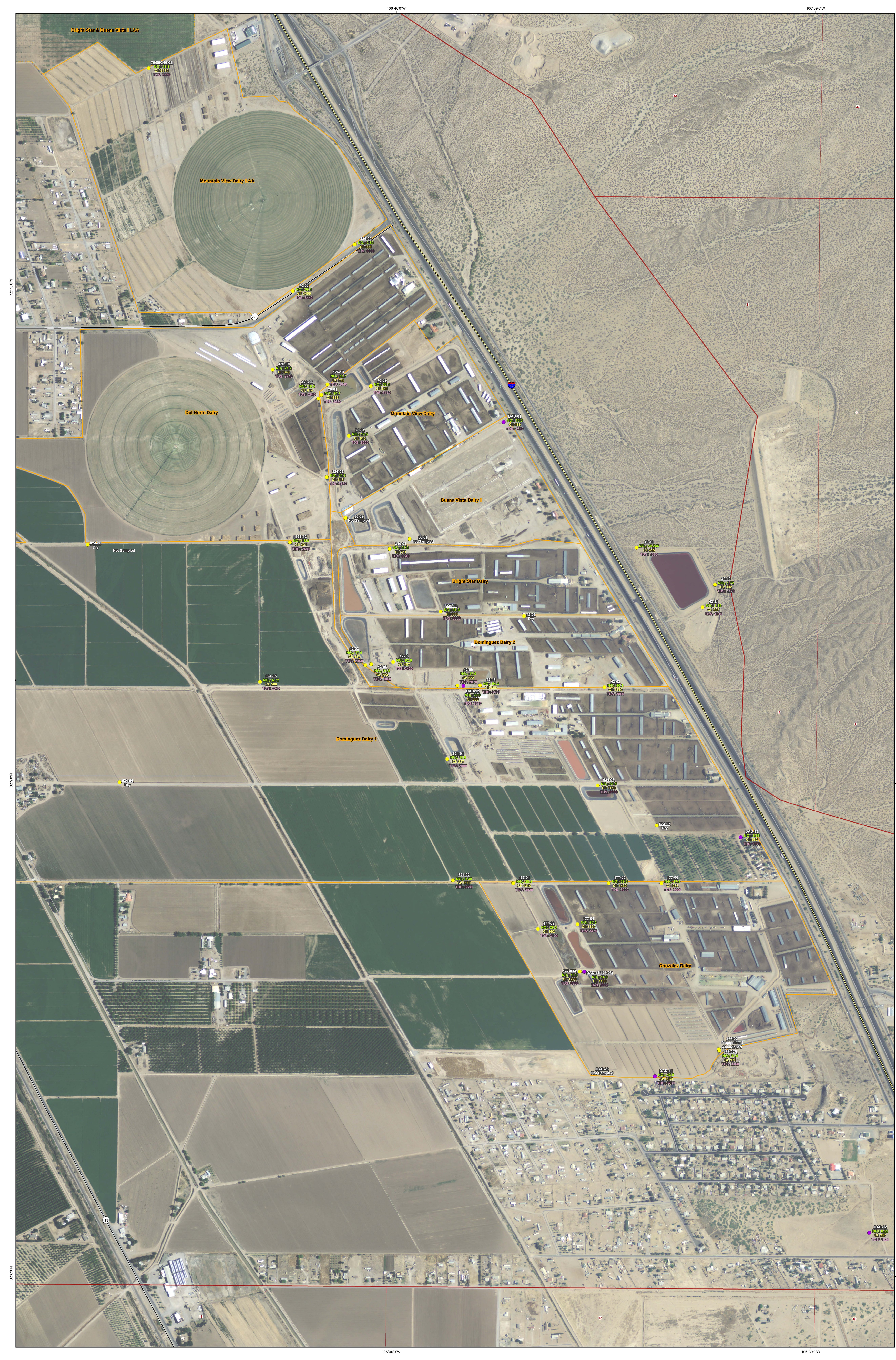
Note:
* = Not used in contouring.

400 200 0 400
FEET
SCALE 1:9,000 1" = 750 FT
WHEN PRODUCED AT 11X17IN



REFERENCES
Aerial Photography: NAIP, 2011
PLSS: BLM, 2000
Projection: State Plane NAD 83 New Mexico Central (feet)

PROJECT		DOÑA ANA DAIRIES MESQUITE, NEW MEXICO	
TITLE		POTENTIOMETRIC SURFACE MAP, FEBRUARY 2013, SOUTHERN PORTION PERCHED AQUIFER	
	PROJECT No.	deloro_pot_regional200908.mxd	
	DESIGN		SCALE AS SHOWN REV 0
	GIS		
	CHECK REVIEW		
		FIGURE 5	

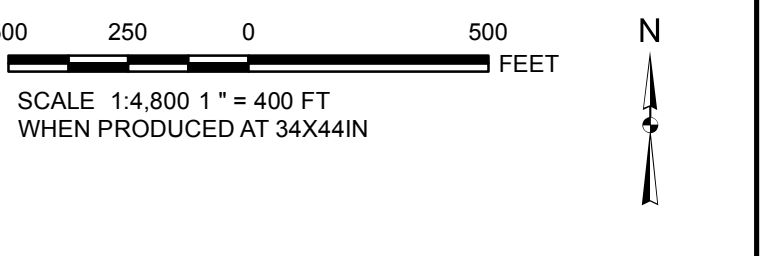


LEGEND:

- 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

Notes:
 Units are in milligrams per liter.
 Cl = Chloride
 NO₃ = Nitrate as N
 TDS = Total Dissolved Solids

REFERENCES
 Roads: Doña Ana County, 2001
 Aerial Photography: NAIP, 2011
 PRS: SLM, 2000
 Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT		DOÑA ANA DAIRIES MESQUITE, NEW MEXICO	
GROUND WATER ANALYTICAL RESULTS, FEBRUARY AND MARCH 2013, NORTHERN PORTION			
DATE	ISSUED	BY	FOR
FIGURE 6			

2013 02 13 11:17:17 \\p:\projects\mesquite\mesquite\fig6\fig6.mxd [D:\Data\mesquite]



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

Notes:
 Units are in milligrams per liter.
 Cl = Chloride
 NO₃ = Nitrate as N
 TDS = Total Dissolved Solids

REFERENCES
 Roads: Doña Ana County, 2001
 Aerial Photography: NARP, 2011
 PLSS: BLM, 2000
 Projection: State Plane NAD 83 New Mexico Central (feet)

500 250 0 250
 FEET
 SCALE: 1" = 400 FT
 WHEN PRODUCED AT 34x44 IN

PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

GROUND WATER ANALYTICAL RESULTS
 FEBRUARY AND MARCH 2013,
 CENTRAL PORTION

DATE:	DATE:	DATE:	DATE:
TIME:	TIME:	TIME:	TIME:
BY:	BY:	BY:	BY:
REVISION:	REVISION:	REVISION:	REVISION:

EA

FIGURE 7

2013-03-08 10:45:00 AM C:\GIS\PROJECTS\DOÑA ANA DAIRIES\DOÑA ANA DAIRIES_20130308.mxd 631446 1/4/13



LEGEND:

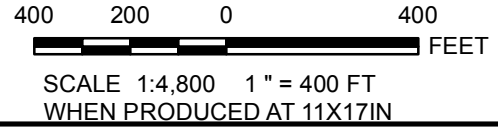
- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Land Owned by Dairies
- Public Land Survey System

Notes:
Units are in milligrams per liter.

Cl = Chloride
NO₃ = Nitrate as N
TDS = Total Dissolved Solids

REFERENCES

Aerial Photography: NAIP, 2011
PLSS: BLM, 2000
Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT		DOÑA ANA DAIRIES MESQUITE, NEW MEXICO	
TITLE		GROUNDWATER ANALYTICAL RESULTS FEBRUARY AND MARCH 2013, SOUTHERN PORTION, REGIONAL AQUIFER	
PROJECT No.		analytical_regional200908.mxd	
DESIGN		SCALE AS SHOWN	REV 0
GIS		FIGURE 8	
CHECK			
REVIEW			





LEGEND:

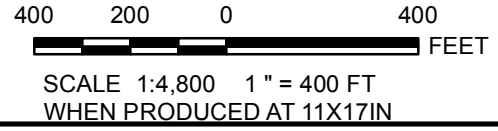
- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells; Anthony
- Land Owned by Dairies
- Public Land Survey System

Notes:
Units are in milligrams per liter.

Cl = Chloride
NO₃ = Nitrate as N
TDS = Total Dissolved Solids

REFERENCES

Aerial Photography: NAIP, 2011
PLSS: BLM, 2000
Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
GROUNDWATER ANALYTICAL RESULTS FEBRUARY AND MARCH 2013, SOUTHERN PORTION, PERCHED AQUIFER			
	PROJECT No.	deloro_analytical_perched200908.mxd	
	DESIGN		SCALE AS SHOWN REV 0
	GIS		
	CHECK		
	REVIEW		
			FIGURE 9

**APPENDIX A
SAMPLING FIELD FORMS**

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

Monitoring Well	Northing	Easting	Date	Time	Depth to Water (ft)	Notes or Total Depth (ft)
NORTHERN AREA						
Northern Land Application Area (DP-340)						
70-03	424580.78	1510233.88	2-7-13	7:36	53.46	65.06
70/86/340-01	427320.92	1508461.05	2-7-13	7:45	46.49	67.48
86/340-01	432021.33	1503216.90	2-7-13	7:21	52.31	71.09
Del Norte Dairy (DP-126)						
126-04	423258.23	1510546.24	2-7-13	8:19	32.05	37.96
126-05	422293.26	1510649.84	2-7-13	8:36	24.71	34.97
126-07	423613.62	1509986.47	2-7-13	8:24	32.58	38.30
126-09	425154.15	1510994.31	2-7-13	8:02	74.61	81.93
126-12	421492.11	1510198.45	2-7-13	8:47	20.92	29.95
126-13	423431.96	1510657.41	2-7-13	8:14	39.07	59.22
Mountain View Dairy (DP-70)						
70-01	423303.43	1510585.63	2-7-13	8:55	33.58	45.40
* 70-02	423412.73	1511192.51	2-7-13	9:12	43.13	49.49
Buena Vista Dairy I (DP-86)						
86-01	421534.62	1511667.76	2-7-13	9:31	47.35	54.22
86-02	421792.08	1510881.53	2-7-13	9:43	30.07	48.26
Bright Star Dairy (DP-340)						
340-01	421410.13	1511423.42	2-7-13	9:50	40.75	47.16
340-02	420641.08	1512051.57	2-7-13	10:03	52.29	56.59
Gonzalez Dairy (DP-177)						
177-01	417300.94	1512942.63	2-7-13	12:47	17.77	25.29
177-02	416738.21	1513246.51	2-7-13	13:55	18.50	25.32
177-03A	416206.71	1513777.17	2-7-13	13:46	20.01	35.93
177-04	416796.99	1513733.28	2-7-13	13:29	24.29	46.22
177-05	417302.42	1514116.55	2-7-13	13:22	36.21	49.15
177-06	417301.84	1514765.63	2-7-13	13:16	50.43	51.66
177-07R	415258.95	1515471.64	2-7-13	14:08	44.44	54.13
Dominquez 2 Dairy (DP-42)						
42-02	419982.45	1511126.19	2-7-13	10:43	26.48	NO TD HAS PUMP
42-03	419710.55	1514064.35	2-7-13	10:17	82.01	NO TD HAS PUMP
42-06	420021.61	1511465.15	2-7-13	10:49	32.30	NO TD HAS PUMP
42-07	420584.80	1513076.66	2-7-13	10:54	Dry	NO TD HAS PUMP
42-08	419994.93	1511197.91	2-7-13	10:38	28.43	NO TD HAS PUMP
42-09	419729.17	1512255.76	2-7-13	10:31	47.79	NO TD HAS PUMP
42-10	421426.39	1514460.40	2-7-13	11:28	112.29	NO TD HAS PUMP
42-11	420693.98	1515270.32	2-7-13	11:37	122.91	NO TD HAS PUMP
42-12	420972.09	1515423.88	2-7-13	11:19	129.18	NO TD HAS PUMP
42-13	419734.06	1512534.42	2-7-13	10:23	55.86	NO TD HAS PUMP

* 70-04 - 2-7-13 9:22 3685 47.90

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
Del Oro Dairy (DP-692)						
692-01	373615.88	1531529.38	2/7/13	13:59	59.93	has pump NO T/O
692-02	372984.72	1531192.10	2/7/13	13:09	56.86	66.27
692-04	372982.53	1531555.21	2/7/13	13:18	58.05	60.71
692-05	374807.26	1532403.00	2/7/13	13:33	78.86	has pump NO T/O
692-06	375054.77	1532411.83	2/7/13	13:38	80.88	90.11 Pump has been removed
692-07	374944.88	1532019.81	2/7/13	13:44	72.55	has pump NO T/O
692-08	375535.69	1531378.09	2/7/13	13:50	66.64	has pump NO T/O
692-09	373575.83	1532395.09	2/7/13	13:26	82.02	has pump NO T/O
Anthony Waste Water Treatment Plant (DAD)						
MW-1	372097.86	1532364.36	2/7/13	14:10	59.23	61.36
MW-2	NM	NM	2/7/13	14:23	60.85	63.78
MW-3	NM	NM	2/7/13	14:36	58.36	58.00
ABATEMENT PLAN MONITOR WELLS						
DAD-01	422970.59	1512825.76	2-8-13	7:13	68.59	76.32
DAD-02	413002.98	1517319.93	2-8-13	8:18	64.04	67.81
DAD-03	407721.31	1516497.85	2-8-13	8:24	11.07	14.47
DAD-04	404576.66	1517413.28	2-8-13	8:37	14.48	18.11
DAD-05	396712.87	1519102.06	2-8-13	9:01	15.08	23.63
DAD-06	404273.19	1522081.00	2-8-13	10:57	82.38	83.49
DAD-07	399270.18	1524320.88	2-8-13	11:54	90.13	100.68
DAD-08	395287.38	1522575.07	2-8-13	10:19	50.37	54.99
DAD-09	373259.30	1530905.70	2-8-13	12:15	54.67	62.77
DAD-10	372980.55	1532375.33	2-8-13	13:03	80.87	94.66
DAD-11	416211.35	1513814.71	2-8-13	7:37	19.28	35.43
DAD-12	419731.54	1512274.77	2-8-13	7:28	49.36	82.15
DAD-13	417879.08	1515673.13	2-8-13	11:11	84.81	92.97
DAD-14	414923.33	1514695.26	2-8-13	7:58	27.31	42.58
DAD-15			2-8-13	11:36	84.81 94.01	109.54
DAD-16	400628.77	1519350.74	2-8-13	8:51	17.20	32.68
DAD-17	393991.97	1520267.94	2-8-13	9:23	18.55	38.46
DAD-18	395714.14	1520588.96	2-8-13	9:57	22.04	56.96
DAD-19	400164.47	1522027.92	2-8-13	10:41	62.95	99.16
DAD-20	371751.45	1531188.19	2-8-13	12:43	52.29	69.04
DAD-21	374013.39	1530983.98	2-8-13	12:08	55.16	70.38
DAD-22	373029.62	1530352.69	2-8-13	12:31	44.08	50.05

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

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 I Dairy (DP-624)						
624-01	418826.21	1512131.46	2/7/13	7:28	26.34	45.53
624-02	417335.25	1512201.42	2/7/13	8:12	19.10	31.47
624-04	418542.24	1508104.07	2/7/13	7:48	DRY	16.30
624-05	419777.52	1509829.65	2/7/13	7:40	16.72	17.23
624-06	418502.42	1513981.08	2/7/13	7:57	51.84	52.26
624-07	418012.23	1514707.77	2/7/13	8:03	DRY	55.61
624-08	421461.78	1507712.04	2/7/13	8:29	DRY	19.36
CENTRAL AREA						
Buena Vista Dairy II (DP-74)						
74-01	405434.93	1519310.15	2/7/13	8:53	33.64	45.29
74-02	404574.08	1519035.52	2/7/13	9:09	15.84	20.36
74-03	407163.61	1516711.72	2/7/13	8:42	13.93	20.19
74-04	405488.65	1519864.48	2/7/13	8:57	46.31	58.57
74-05	404747.71	1519885.30	2/7/13	9:02	39.40	57.18
River Valley Dairy (DP-167)						
167-01	402518.37	1518459.71	2/7/13	9:27	17.02	108.10
167-01A	402518.18	1518936.72	2/7/13	9:30	17.45	25.08
167-02	402498.30	1519354.81	2/7/13	9:34	DRY	23.48
167-03	402981.73	1519415.73	2/7/13	9:18	22.06	41.95
167-04	402032.19	1519884.60	2/7/13	9:39	24.84	29.71
167-05	397947.44	1520446.03	2/7/13	9:36	14.96	21.95
167-06	404479.35	1519603.88	2/7/13	9:14	30.00	37.79
167-07	402562.23	1518480.34	2/7/13	9:23	15.84	29.30
167-08	399352.96	1519889.65	2/7/13	9:44	16.73	33.66
167-09	398473.95	1519259.34	2/7/13	9:48	15.36	20.05
Big Sky Dairy (DP-833)						
833-01	399617.23	1521136.33	2/7/13	11:01	DRY	36.51
833-02	401200.32	1520639.92	2/7/13	11:39	33.42	57.48
833-03	401392.09	1521955.23	2/7/13	11:30	DRY	57.40
833-04	402898.52	1520659.33	2/7/13	11:59	41.70	54.07
833-05	399712.39	1522374.73	2/7/13	11:16	64.21	73.88
833-06	402219.48	1522652.04	2/7/13	11:48	73.80	85.14
833-07	399298.80	1522082.75	2/7/13	11:10	59.82	73.50
833-08	400535.64	1521938.23	2/7/13	11:23	59.43	72.91
833-09	398280.67	1520918.52	2/7/13	10:48	26.26	39.42
833-10	396715.89	1520283.60	2/7/13	10:37	21.12	37.16
Sunset/Desert Land Dairy (DP-257)						
257-01	395856.31	1520572.16	2/7/13	10:25	20.38	26.10
257-02	394728.34	1521030.29	2/7/13	10:31	14.79	20.81
257-03	397935.69	1518746.14	2/7/13	10:17	12.31	19.92
257/260-01	397678.36	1519948.22	2/7/13	10:08	13.11	20.35
SOUTHERN AREA						

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-04 Date Gauged 2-25-13
 Site Big Sky Time Gauged 12:59

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 41.71 feet Height of Fluid Column 12.36 feet
 Total Depth 54.07 feet Volume in Well 8.15 gallons
 (3 Well Volumes = 24 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:13 2-25-13 Purged Method Red-flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:26	17	17	21.5	5589	8.12	322	4373
13:28	1	18	20.9	5653	7.97	305	4442
13:31	1	19	20.8	5661	7.89	287	4473
13:33	1	20	20.5	5668	8.00	269	4496
13:37	1	21	20.6	5647	7.84	244	4460
13:41	1	22	20.3	5662	7.99	267	4501
13:45	1	23	20.4	5619	7.86	266	4486
13:49	1	24	20.1	5630	7.73	268	4452

Actual Purge Volume 24 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 13:53 2-25-13 Purged/Sampled By Angel N. Rivera
 Sample Method Redi-flow Pump
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-03 Date Gauged 2-25-13
 Site Big Sky Time Gauged 12:48
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water Dry feet Height of Fluid Column Ø feet
 Total Depth 57.3b feet Volume in Well Ø gallons
 (3 Well Volumes = Ø gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged Ø Purged Method Ø

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DE (mg/L)

Actual Purge Volume Ø gals Field Measurements stabilized within ± 10%
 Time/Date Sampled Ø Purged/Sampled By Angel N. Rivera
 Sample Method Ø
 Requested Analyses _____
 Comments/Observations Cannot sample or purge, 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-06 Date Gauged 2-25-13
 Site Big Sky Time Gauged 11:27

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 73.78 feet Height of Fluid Column 11.39 feet
 Total Depth 85.17 feet Volume in Well 7.51 gallons
 (3 Well Volumes = 23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:54 2-25-13 Purged Method Redi-flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:23	16	16	20.3	4451	8.64	339	3470
12:25	1	17	20.5	4433	8.19	323	3425
12:28	1	18	20.8	4439	7.98	313	3435
12:30	1	19	20.6	4462	7.84	304	3452
12:32	1	20	20.7	4476	7.78	298	3463
12:34	1	21	20.5	4496	7.73	288	3450
12:36	1	22	20.9	4453	7.69	282	3444
12:37	1	23	20.6	4472	7.61	277	3432

Actual Purge Volume 23 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:40 2-25-13 Purged/Sampled By Angel N. Rivera

Sample Method Redi-flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-02 Date Gauged 2-25-13
 Site Big Sky Time Gauged 10:09

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 33.46 feet Height of Fluid Column 24.04 feet
 Total Depth 57.50 feet Volume in Well 15.86 gallons
 (3 Well Volumes = 48 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:23 2-25-13 Purged Method Redi-Flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:47	41	41	18.9	6116	8.46	312	4856
10:52	1	42	20.0	6090	7.94	293	4843
10:55	1	43	19.9	6099	7.84	286	4926
10:57	1	44	19.4	6142	7.80	282	4901
11:01	1	45	19.3	6132	7.76	277	4891
11:05	1	46	19.7	6149	7.75	272	4900
11:08	1	47	19.8	6109	7.79	263	4849
11:12	1	48	19.6	6115	7.68	258	4887

Actual Purge Volume 48 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:16 2-25-13 Purged/Sampled By ~~Joe~~ Angel N. Rivera
 Sample Method Redi-Flow Pump
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-05 Date Gauged 2-26-13
 Site Big Sky Time Gauged 8:57
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 64.21 feet Height of Fluid Column 9.67 feet
 Total Depth 73.88 feet Volume in Well 6.38 gallons
 (3 Well Volumes = 19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:05 2-26-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
9:38	12	12	22.5	5231	8.51	279	4050
9:43	1	13	22.4	5135	8.22	262	3985
9:46	1	14	22.3	5162	7.94	248	4012
9:49	1	15	21.4	5052	7.93	209	3933
9:52	1	16	21.0	5055	7.92	211	3925
9:56	1	17	21.7	5172	7.82	205	4032
9:59	1	18	21.9	5167	7.71	206	4040
10:02	1	19	22.1	5074	7.58	207	3945

Actual Purge Volume 19 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 10:06 2-26-13 Purged/Sampled By Angel N. Rivera
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-07 Date Gauged 2-26-13
 Site Big Sky Time Gauged 11:18
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 59.86 feet Height of Fluid Column 13.61 feet
 Total Depth 73.47 feet Volume in Well 8.98 gallons
 (3 Well Volumes = 27 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:22 2-26-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:58	20	20	21.6	6956	7.69	240	5567
12:03	1	21	21.3	6981	7.77	227	5555
12:08	1	22	21.2	6991	7.68	223	5586
12:12	1	23	20.9	7002	7.63	220	5603
12:15	1	24	21.0	7020	7.67	218	5622
12:19	1	25	19.9	7099	7.73	216	5710
12:22	1	26	20.9	7071	7.66	224	5642
12:27	1	27	20.4	7007	7.55	215	5621

Actual Purge Volume 27 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:31 2-26-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-08 Date Gauged 2-26-13
 Site Big Sky Time Gauged 12:49
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 59.43 feet Height of Fluid Column 13.47 feet
 Total Depth 72.90 feet Volume in Well 8.89 gallons
 (3 Well Volumes = 27 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:11 2-26-13 Purged Method Red-flow pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:31	20	20	20.9	4031	8.28	207	3081
13:33	1	21	20.8	4042	8.13	209	3070
13:36	1	22	20.2	4371	8.12	210	3385
13:38	1	23	20.4	4395	7.83	214	3393
13:41	1	24	21.1	4248	7.76	215	3289
13:44	1	25	20.5	4275	7.68	216	3303
13:49	1	26	21.4	4348	7.66	215	3296
13:53	1	27	21.2	4308	7.60	222	3254

Actual Purge Volume 27 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:58 2-26-13 Purged/Sampled By Angel N. Rivera

Sample Method Redi-flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-01 Date Gauged 2-26-13
 Site Big Sky Time Gauged 14:09
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water Dry feet Height of Fluid Column 0 feet
 Total Depth 36.48 feet Volume in Well 0 gallons
 (3 Well Volumes = 0 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 0 Purged Method 0

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

Actual Purge Volume 0 gals Field Measurements stabilized within ± 10% 0
 Time/Date Sampled 0 Purged/Sampled By Angel N. Rivera
 Sample Method 0
 Requested Analyses _____
 Comments/Observations Cannot sample or purge, 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-09 Date Gauged 2-28-13
 Site Big Sky Time Gauged 7:33
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 26.23 feet Height of Fluid Column 13.16 feet
 Total Depth 39.39 feet Volume in Well 8.69 gallons
 (3 Well Volumes = 26 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:35 2-28-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:56	19	19	19.8	5944	7.65	282	4705
7:59	1	20	19.6	5745	7.97	268	4521
8:08	1	21	19.1	5734	7.95	263	4514
8:15	1	22	19.8	5685	7.97	260	4548
8:17	1	23	19.7	5844	7.91	259	4570
8:21	1	24	19.1	5752	7.94	258	4628
8:26	1	25	19.4	5886	7.87	256	4681
8:30	1	26	19.3	5839	7.83	255	4646

Actual Purge Volume 26 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:33 2-28-13 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 ga/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-10 Date Gauged 2-28-13
 Site Big Sky Time Gauged 8:55
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 21.12 feet Height of Fluid Column 15.99 feet
 Total Depth 37.11 feet Volume in Well 10.5 gallons
 (3 Well Volumes = 31 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:09 2-28-13 Purged Method ~~_____~~ Redi-flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:38	24	24	17.9	4155	8.43	262	3177
9:43	1	25	18.2	4121	8.11	263	3167
9:45	1	26	17.1	4088	7.95	263	3156
9:47	1	27	17.5	4129	7.92	273	3142
9:50	1	28	17.7	4101	7.87	277	3181
9:53	1	29	17.2	4121	7.84	276	3167
9:54	1	30	17.3	4105	7.82	272	3152
9:58	1	31	17.7	4132	7.77	270	3163

Actual Purge Volume 31 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:03 2-28-13 Purged/Sampled By Angel N. Rivera

Sample Method Redi-flow Pump

Requested Analyses _____

Comments/Observations _____

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313
1 (800) 378-1296

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

email: lab@traceanalysis.com

ANALYSIS REQUEST (Circle or Specify Method No.)

Company Name: DeHaven & Family Services Phone #: 915-859-8150

Address: 1721 L... Trail to El Paso Tx 79907 Fax #: 915-859-7229

Contact Person: Victor Ayala E-mail: vayala@dehenv.com

Invoice to: Jim Hyde/Edward DePuyter Mosquito N/A 88018 575-233-2029

Project #: 407260 Project Name: Bright Star Dairy

Project Location (including state): Bright Star Dairy, 13520 Stein Dr. Mosquito N/A Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
	340-01	1	2 ^{50ml}	X				X					2-13-13	14:31
	340-01	1	1	X				X					2-13-13	14:31
	340-02	1	1	X				X					2-13-13	14:45
	340-02	1	1	X				X					2-13-13	14:45
	70/86/340-01	1	1	X				X					2-13-13	10:21
	70/86/340-01	1	1	X				X					2-13-13	10:21
	86/340-01	1	1	X				X					2-13-13	8:51
	86/340-01	1	1	X				X					2-13-13	8:51
	340 Lagoon	1	1	X				X					2-13-13	14:58
	340 Lagoon	1	1	X				X					2-13-13	14:58
	340 Lagoon	1	1	X				X					2-13-13	14:58

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR	REMARKS:
<u>David A. Pava</u>	<u>Dill</u>	<u>2-13-13</u>	<u>15:25</u>	<u>[Signature]</u>							<u>TKN & Phosphorus</u>
											<u>Alc 210</u>

Turn Around Time if different from standard

Moisture Content

BOD, TSS, pH

Pesticides 8081 / 608

PCB's 8082 / 608

GC/MS Semi. Vol. 8270 / 625

GC/MS Vol. 8260 / 624

RELATE PHOSPHORUS 5M/450

TCLP Pesticides

TCLP Semi Volatiles

TCLP Volatiles

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7

PAH 8270 / 625

TPH 8015 GRO / DRO / TVHC

TPH 418.1 / TX1005 / TX1005 Ext(C35)

BTEX 8021 / 602 / 8260 / 624

MTBE 8021 / 602 / 8260 / 624

LAB USE ONLY

INSTRUMENT

REPRODUCTION

LAB REVIEW

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

CHART COPY

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 340-01 Date Gauged 2-13-13
 Site Bright Star Time Gauged 14:06

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 40.70 feet Height of Fluid Column 6.41 feet
 Total Depth 47.11 feet Volume in Well 4.23 gallons
 (3 Well Volumes = 13 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 14:08 2-13-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
14:17	6	6	19.9	4853	8.18	237	3772
14:19	1	7	20.1	4832	7.97	255	3791
14:21	1	8	20.5	4920	7.94	258	3805
14:23	1	9	20.3	4852	7.86	260	3735
14:24	1	10	20.6	4819	7.77	263	3750
14:25	1	11	20.8	4676	7.73	269	3621
14:27	1	12	20.4	4669	7.72	272	3606
14:29	1	13	20.2	4711	7.67	282	3648

Actual Purge Volume 13 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 14:31 2-13-13 Purged/Sampled By Angel U. 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 340.02 Date Gauged 2-13-13
 Site Bright Star Time Gauged 14:33

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 52.28 feet Height of Fluid Column 4.3 feet
 Total Depth 56.50 feet Volume in Well 2.8 gallons
 (3 Well Volumes = 8.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 14:34 2-13-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
14:35	1.5	1.5	21.0	4907	7.96	284	3806
14:36	1	2.5	21.3	4910	7.93	283	3813
14:37	1	3.5	21.2	4941	7.85	281	3863
14:39	1	4.5	20.6	4861	7.83	271	3781
14:40	1	5.5	20.6	4895	7.72	266	3821
14:42	1	6.5	20.4	4901	7.60	260	3810
14:43	1	7.5	20.3	4884	7.76	280	3888
14:44	1	8.5	20.4	4964	7.55	277	3907

Actual Purge Volume 8.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 14:45 2-13-13 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 86/340-01 Date Gauged 2-13-13
 Site Northern Land/Bright Star Time Gauged 7:20

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 52.31 feet Height of Fluid Column 18.78 feet
 Total Depth 71.09 feet Volume in Well 12.4 gallons
 (3 Well Volumes = 37 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:31 2-13-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:05	30	30	18.4	4127	7.60	304	3157
8:09	1	31	19.6	4083	7.80	297	3127
8:15	1	32	18.8	4104	7.85	287	3131
8:20	1	33	18.4	4031	7.95	277	3103
8:27	1	34	18.1	4108	7.91	268	3161
8:31	1	35	17.9	4112	7.81	265	3158
8:37	1	36	18.0	4120	7.79	263	3163
8:48	1	37	17.8	4117	7.71	269	3171

Actual Purge Volume 37 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:51 2-13-13 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 70/86/340-01 Date Gauged 2-13-13
 Site Northern Land / Bright Star Time Gauged 8:58
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 46.49 feet Height of Fluid Column 20.99 feet
 Total Depth 67.48 feet Volume in Well 13.85 gallons
 (3 Well Volumes = 42 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:07 2-13-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:42	35	35	17.8	7464	7.97	208	6069
9:48	1	36	18.7	7543	7.83	209	6093
9:52	1	37	18.8	7551	7.80	211	6102
9:56	1	38	19.2	7503	7.70	210	6083
10:00	1	39	19.4	8704	7.56	214	7188
10:05	1	40	18.2	7984	7.63	216	6531
10:11	1	41	18.0	7945	7.60	217	6520
10:17	1	42	17.8	7888	7.53	221	6500

Actual Purge Volume 42 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:21 2-13-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 74-01 Date Gauged 2-19-13
 Site Buena Vista II Time Gauged 12:55

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 33.59 feet Height of Fluid Column 11.62 feet
 Total Depth 45.21 feet Volume in Well 7.66 gallons
 (3 Well Volumes = 23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:12 2-19-13 Purged Method Redi-
~~low~~ flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS- DO (mg/L)
13:26	16	16	21.5	5401	8.37	159	4255
13:27	1	17	21.3	5305	8.04	164	4156
13:29	1	18	21.4	5239	7.86	167	4082
13:31	1	19	21.8	5179	7.80	171	4053
13:32	1	20	21.5	5114	7.78	174	3971
13:34	1	21	21.7	5045	7.73	175	3910
13:35	1	22	21.6	5033	7.67	176	3923
13:37	1	23	21.3	5003	7.63	180	3873

Actual Purge Volume 23 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:38 2-19-13 Purged/Sampled By Angel N. Rivera

Sample Method Redi-
~~low~~ flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 74-02 Date Gauged 2-19-13
 Site Buena Vista II Time Gauged 11:39
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 15.89 feet Height of Fluid Column 4.44 feet
 Total Depth 20.33 feet Volume in Well 2.9 gallons
 (3 Well Volumes = 9 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:52 2-19-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:58	2	2	20.1	3430	8.44	176	2576
12:03	1	3	20.4	3359	8.02	182	2532
12:05	1	4	20.6	3346	8.05	197	2518
12:07	1	5	20.3	3370	8.00	205	2536
12:08	1	6	20.2	3391	7.97	201	2580
12:11	1	7	19.8	3436	7.93	185	2574
12:15	1	8	20.0	3384	7.88	186	2566
12:16	1	9	19.9	3323		193	2511

Actual Purge Volume 9 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:19 2-19-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 74-03 Date Gauged 2-19-13
 Site Buena Vista II Time Gauged 10:43

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 13.94 feet Height of Fluid Column 6.24 feet
 Total Depth 20.19 feet Volume in Well 4.1 gallons
 (3 Well Volumes = 12 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:47 2-19-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
10:58	5	5	21.1	6252	8.45	177	4959
11:01	1	6	20.9	6183	8.01	182	4915
11:03	1	7	20.6	6059	7.89	186	4801
11:07	1	8	20.8	6170	7.74	189	4954
11:10	1	9	21.2	6360	7.72	192	5067
11:13	1	10	20.6	6161	7.69	194	4884
11:18	1	11	20.5	6168	7.71	196	4922
11:21	1	12	20.3	6042	7.77	197	4789

Actual Purge Volume 12 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:27 2-19-13 Purged/Sampled By Ariel N. R.

Sample Method Bailer

Requested Analyses _____

Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 74-04 Date Gauged 2-20-13
 Site Buena Vista II Time Gauged 7:36
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 46.28 feet Height of Fluid Column 12.3 feet
 Total Depth 58.58 feet Volume in Well 8.1 gallons
 (3 Well Volumes = 24.3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:49 2-20-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	^{TD} DO (mg/L)
8:28	17	17	20.1	3127	8.70	289	2328
8:32	1	18	20.0	3097	8.43	262	2313
8:35	1	19	19.8	3081	8.22	259	2301
8:39	1	20	20.3	3092	8.17	255	2293
8:43	1	21	20.2	3086	8.11	248	2289
8:47	1	22	20.5	3089	8.03	245	2291
8:51	1	23	20.8	3079	7.91	240	2287
8:55	1	24	20.7	3081	7.89	237	2292

Actual Purge Volume 24 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:58 2-20-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 74-05 Date Gauged 2-20-13
 Site Buena Vista II Time Gauged 9:10
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 39.36 feet Height of Fluid Column 17.79 feet
 Total Depth 57.15 feet Volume in Well 11.74 gallons
 (3 Well Volumes = 35 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:39 2-20-13 Purged Method Redi-flow pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:09	28	28	21.4	3004	8.44	162	2222
10:11	1	29	21.7	2996	8.09	166	2216
10:12	1	30	21.7	2992	8.00	170	2212
10:14	1	31	21.6	3001	7.87	172	2214
10:17	1	32	21.5	2994	7.81	175	2211
10:19	1	33	21.7	2999	7.78	177	2230
10:22	1	34	21.6	2991	7.70	179	2219
10:25	1	35	21.5	2987	7.64	180	2213

Actual Purge Volume 35 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:27 2-20-13 Purged/Sampled By Ansel P. Rivera

Sample Method Redi-flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-01 Date Gauged 2-28-13
 Site _____ Time Gauged 11:25
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 68.58 feet Height of Fluid Column 7.72 feet
 Total Depth 76.30 feet Volume in Well 1.31 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:28 2-28-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:33	1	1	22.5	2450	8.42	240	1792
11:35	1	2	23.7	2420	8.08	245	1764
11:37	1	3	22.8	2484	8.02	257	1830
11:39	1	4	23.1	2583	7.84	273	1903

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:43 2-28-13 Purged/Sampled By Angel N. Rivera
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-12 Date Gauged 2-28-13
 Site _____ Time Gauged 13:24
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 49.41 feet Height of Fluid Column 32.68 feet
 Total Depth 82.09 feet Volume in Well 5.5 gallons
 (3 Well Volumes = 17 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:31 2-28-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:51	10	10	21.1	4432	8.25	266	3410
13:53	1	11	21.0	4451	7.96	259	3417
13:55	1	12	20.9	4412	7.77	257	3394
13:57	1	13	21.4	4404	7.71	261	3399
13:59	1	14	21.3	4379	7.67	258	3369
14:00	1	15	21.8	4392	7.62	254	3375
14:07	1	16	21.7	4400	7.65	251	3386
14:14	1	17	21.4	4421	7.56	259	3420

Actual Purge Volume 17 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 14:19 2-28-13 Purged/Sampled By Ange/ 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID D4D-13 Date Gauged 2-28-13
 Site _____ Time Gauged 12:47
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 84.78 feet Height of Fluid Column 8.19 feet
 Total Depth 92.97 feet Volume in Well 1.39 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:51 2-28-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	FDS DO (mg/L)
12:57	1	1 1	23.4	3099	8.25	242	2301
13:03	2	2	23.1	3140	7.99	298	2333
13:09	3	3	24.4	3165	7.81	252	2345
13:13	4	4	24.5	3151	7.74	251	2332

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:19 2-28-13 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 ga/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-09 Date Gauged 3-6-13
 Site _____ Time Gauged 8:25

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 54.60 feet Height of Fluid Column 8.11 feet
 Total Depth 62.71 feet Volume in Well 1.37 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:31 3-6-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
8:39	1	1	22.6	3401	8.13	237	2551
8:43	1	2	21.7	3120	7.84	242	2328
8:48	1	3	21.8	2977	7.81	243	2215
8:53	1	4	21.6	2951	7.74	245	2187

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:58 3-6-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-10 Date Gauged 3-6-13
 Site _____ Time Gauged 13:43

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 80.84 feet Height of Fluid Column 13.77 feet
 Total Depth 94.61 feet Volume in Well 2.34 gallons
 (3 Well Volumes = 7 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:45 3-6-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
13:49	1	1	22.0	2316	8.52	164	1688
13:53	1	2	21.5	2277	8.24	217	1659
13:58	1	3	21.0	2342	8.13	228	1711
14:05	1	4	21.1	2350	8.03	248	1716
14:09	1	5	20.6	2361	8.00	301	1738
14:13	1	6	19.7	2368	7.96	297	1721
14:18	1	7	20.9	2379	7.85	292	1749

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 14:26 3-6-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-20 Date Gauged 3-6-13

Site _____ Time Gauged 11:07

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 52.23 feet Height of Fluid Column 16.81 feet

Total Depth 69.04 feet Volume in Well 2.85 gallons

(3 Well Volumes = 89 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:12 3-6-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:29	2	2	23.8	3359	8.55	242	2510
11:35	1	3	23.2	3355	8.07	236	2496
11:41	1	4	22.8	3363	8.01	226	2511
11:47	1	5	22.4	3367	7.93	224	2502
11:52	1	6	22.2	3372	7.90	228	2504
11:57	1	7	22.1	3361	7.87	224	2511
12:04	1	8	22.2	3392	7.84	221	2534
12:09	1	9	21.9	3422	7.94	217	2558

Actual Purge Volume 9 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:17 3-6-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-21 Date Gauged 3-6-13
 Site _____ Time Gauged 7:13

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 55.07 feet Height of Fluid Column 15.28 feet
 Total Depth 70.35 feet Volume in Well 2.59 gallons
 (3 Well Volumes = 8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:21 3-6-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:38	1	1	20.6	3131	7.68	305	2348
7:43	1	2	20.3	3040	8.07	293	2254
7:47	1	3	20.4	3030	7.93	294	2242
7:49	1	4	20.6	3026	7.81	289	2251
7:53	1	5	20.2	3018	7.73	285	2236
7:57	1	6	19.9	3031	7.90	288	2224
7:59	1	7	20.1	2998	7.86	291	2239
8:03	1	8	20.2	3013	7.75	294	2253

Actual Purge Volume 8 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:07 3-6-13 Purged/Sampled By Angel H. 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-22 Date Gauged 3-6-13
 Site _____ Time Gauged 10:23
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 44.21 feet Height of Fluid Column 5.94 feet
 Total Depth 50.05 feet Volume in Well 1.00 gallons
 (3 Well Volumes = 3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:29 3-6-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
10:39	1	1	22.5	4143	8.57	250	3150
12:42	1	2	24.2	4126	7.93	191	3117
12:59	1	3	25.3	4155	7.79	186	3138

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:22 3-6-13 Purged/Sampled By Angel N. Rivera

Sample Method Bailer

Requested Analyses _____

Comments/Observations low water flow left bailer inside well to get full bailer since not getting any water out.

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-07 Date Gauged 3-5-13
 Site _____ Time Gauged 12:49
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 90.10 feet Height of Fluid Column 10.61 feet
 Total Depth 100.71 feet Volume in Well 1.80 gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:57 3-5-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
13:07	1	1	24.0	3810	8.40	273	2887
13:13	1	2	23.9	3815	7.96	261	2850
13:16	1	3	23.8	3801	7.88	287	2874
13:24	1	4	23.6	3784	7.87	298	2846
13:28	1	5	23.3	3800	7.90	299	2861

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 13:39 3-5-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-17 Date Gauged 3-5-13
 Site _____ Time Gauged 7:13

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 18.53 feet Height of Fluid Column 19.93 feet
 Total Depth 38.46 feet Volume in Well 3.38 gallons
 (3 Well Volumes = 10 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:31 3-5-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:53	3	3	18.4	2340	6.54	233	1777
7:56	1	4	17.2	1745	7.15	242	1238
7:59	1	5	16.6	1632	7.29	252	1169
8:02	1	6	16.9	1604	7.32	257	1163
8:06	1	7	17.4	1572	7.35	261	1117
8:10	1	8	17.6	1687	7.37	262	1225
8:13	1	9	17.8	1703	7.38	259	1213
8:17	1	10	17.3	1719	7.44	266	1241

Actual Purge Volume 10 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:22 3-5-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-05 Date Gauged 3-5-13
 Site _____ Time Gauged 10:11

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 15.12 feet Height of Fluid Column 8.51 feet
 Total Depth 23.63 feet Volume in Well 1.44 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:17 3-5-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DE (mg/L)
10:22	1	1	16.5	3330	8.45	269	2508
10:26	1	2	16.3	3347	8.18	264	2547
10:30	1	3	16.1	3409	8.05	267	2591
10:38	1	4	15.8	3303	7.95	277	2509

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 10:45 3-5-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-16 Date Gauged 3-5-13

Site _____ Time Gauged 10:57

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 17.17 feet Height of Fluid Column 15.48 feet

Total Depth 32.65 feet Volume in Well 2.63 gallons

(3 Well Volumes = 8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:08 3-5-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:15	1	1	18.3	3183	8.63	199	2390
11:19	1	2	17.3	3425	8.31	249	2582
11:23	1	3	16.9	3741	8.08	273	2856
11:28	1	4	17.7	3792	8.03	274	2897
11:33	1	5	17.4	3864	7.91	283	2940
11:37	1	6	17.6	3878	7.94	282	2956
11:42	1	7	17.5	3887	7.87	280	2969
11:49	1	8	17.4	4001	7.81	285	3003

Actual Purge Volume 8 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:56 3-5-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-18 Date Gauged ~~8:49~~ 3-5-13
 Site _____ Time Gauged 8:49

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 22.00 feet Height of Fluid Column 34.93 feet
 Total Depth 56.93 feet Volume in Well 5.93 gallons
 (3 Well Volumes = 18 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:58 3-5-13 Purged Method Redi-flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:16	11	11	18.1	4255	8.33	237	3261
9:19	1	12	18.0	4336	8.12	247	3367
9:23	1	13	17.9	4363	7.84	240	3406
9:28	1	14	17.7	4385	7.72	243	3395
9:33	1	15	17.3	4341	7.83	251	3364
9:37	1	16	16.9	4352	7.97	261	3436
9:42	1	17	17.1	4390	7.90	266	3385
9:46	1	18	16.8	4404	7.96	273	3402

Actual Purge Volume 18 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 9:55 3-5-13 Purged/Sampled By Angel M. Rivera
 Sample Method Redi-flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-06 Date Gauged 3-4-13
 Site _____ Time Gauged 10:54
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 82.44 feet Height of Fluid Column 1.04 feet
 Total Depth 83.48 feet Volume in Well 0.17 gallons
 (3 Well Volumes = 0.53 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:58 3-4-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:08	.25	.25	23.9	2506	8.76	173	1835
11:19	.25	.50	23.7	2513	8.26	171	1847

Actual Purge Volume 0.5 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:30 3-4-13 Purged/Sampled By Anjel N. Rivera
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Very low water flow.

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID PAD-08 Date Gauged 3-4-13
 Site _____ Time Gauged 13:15

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 50.37 feet Height of Fluid Column 4.62 feet
 Total Depth 54.99 feet Volume in Well 0.78 gallons
 (3 Well Volumes = 3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:21 3-4-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DE (mg/L)
13:28	1	1	22.1	9263	8.21	203	7640
13:34	1	2	22.2	10.00	7.98	186	8299
13:44	1	3	21.5	10.19	7.86	228	8456

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:57 3-4-13 Purged/Sampled By Angel N. Rivera

Sample Method Bailer

Requested Analyses _____

Comments/Observations low water flow.

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-15 Date Gauged 3-4-13
 Site _____ Time Gauged 9:07
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 94.06 feet Height of Fluid Column 15.44 feet
 Total Depth 109.50 feet Volume in Well 2.62 gallons
 (3 Well Volumes = 8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:18 3-4-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	+DS DO (mg/L)
9:26	1	1	23.9	3811	6.87	136	2860
9:34	1	2	24.0	2860	7.83	83	2119
9:40	1	3	24.4	2831	7.74	86	2097
9:46	1	4	24.6	2808	7.63	84	2078
9:52	1	5	24.7	2821	7.61	79	2092
9:59	1	6	24.8	2814	7.38	94	2080
10:05	1	7	24.9	2826	7.29	114	2085
10:13	1	8	25.0	2837	7.23	105	2118

Actual Purge Volume 8 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 10:17 3-4-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-19 Date Gauged 3-4-13
 Site _____ Time Gauged 11:44

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 63.01 feet Height of Fluid Column 36.15 feet
 Total Depth 99.16 feet Volume in Well 6.14 gallons
 (3 Well Volumes = 18 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:59 3-4-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:25	11	11	23.8	5052	8.17	282	3893
12:38	1	12	22.5	5130	7.95	252	3943
12:40	1	13	22.4	5111	7.86	241	3954
12:44	1	14	23.1	5101	7.73	240	3943
12:48	1	15	22.2	5140	7.74	235	3983
12:53	1	16	22.1	5170	7.73	216	4010
12:56	1	17	22.0	5206	7.77	215	4034
12:59	1	18	21.9	5242	7.84	212	4059

Actual Purge Volume 18 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 13:04 3-4-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-03 Date Gauged 3-1-13

Site _____ Time Gauged 10:18

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 11.09 feet Height of Fluid Column 3.3 feet

Total Depth 14.39 feet Volume in Well 0.56 gallons

(3 Well Volumes = 2 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:23 3-1-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DQ (mg/L)
10:29	.5	.5	19.8	5877	7.88	265	4644
10:33	.5	1	19.7	5881	7.65	140	4654
10:37	.5	1.5	20.0	5856	7.53	35	4630
10:42	.5	2	20.2	5875	7.56	32	4635

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:48 3-1-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-02 Date Gauged 3-1-13
 Site _____ Time Gauged 9:39

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 64.07 feet Height of Fluid Column 3.71 feet
 Total Depth 67.78 feet Volume in Well 0.63 gallons
 (3 Well Volumes = 2 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:43 3-1-13 Purged Method Boiler

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:49	.5	.5	21.4	2510	8.64	221	1851
9:55	.5	1	22.1	2513	8.21	228	1840
9:59	.5	1.5	21.9	2472	8.04	237	1815
10:03	.5	2	22.8	2452	7.93	239	1794

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 10:09 3-1-13 Purged/Sampled By Angel N. Rivera
 Sample Method Boiler
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-11 Date Gauged 3-1-13
 Site _____ Time Gauged 7:28

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 19.28 feet Height of Fluid Column 16.15 feet
 Total Depth 35.43 feet Volume in Well 10.65 gallons
 (3 Well Volumes = 32 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:39 3-1-13 Purged Method Redi-Flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:58	25	25	24.9	6217	7.26	281	4903
8:03	1	26	26.0	5826	7.31	276	4592
8:07	1	27	25.9	5879	7.30	266	4623
8:11	1	28	26.1	5783	7.28	258	4550
8:15	1	29	26.0	5799	7.34	252	4546
8:17	1	30	25.8	5781	7.37	249	4525
8:21	1	31	26.3	5736	7.33	244	4499
8:23	1	32	25.7	5704	7.41	240	4445

Actual Purge Volume 32 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:27 3-1-13 Purged/Sampled By Angel N. Rivera

Sample Method Redi-flow 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 ga/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-14 Date Gauged 3-1-13
 Site _____ Time Gauged 8:42

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 27.28 feet Height of Fluid Column 15.25 feet
 Total Depth 42.53 feet Volume in Well 2.59 gallons
 (3 Well Volumes = 8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:47 3-1-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:53	1	1	19.3	5685	8.34	263	4526
8:55	1	2	19.2	5770	8.12	262	4559
8:58	1	3	19.3	5781	7.92	262	4577
9:01	1	4	19.7	5804	7.87	261	4591
9:04	1	5	19.4	5800	7.81	261	4585
9:08	1	6	19.6	5806	7.80	260	4588
9:13	1	7	19.2	4790	7.78	259	4608
9:17	1	8	19.3	5803	7.72	256	4585

Actual Purge Volume 8 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 9:23 3-1-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-04 Date Gauged 3-1-13
 Site _____ Time Gauged 11:10
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 14.47 feet Height of Fluid Column 3.64 feet
 Total Depth 18.11 feet Volume in Well 0.61 gallons
 (3 Well Volumes = 2 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:16 3-1-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:19	.5	.5	17.9	3600	8.53	129	2723
11:23	.5	1	17.8	3563	8.28	134	2693
11:27	.5	1.5	17.6	3558	8.22	148	2691
11:33	.5	2	17.7	3571	8.12	141	2727

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:39 3-1-13 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

Company Name: 407 263
 D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln., El Paso, Texas 79907
 Contact Person: Victor Ayala
 Phone #: 915-859-8150
 Cell #: vayala@dhpump.com
 Fax #: vayala@dhpump.com
 E-mail: vayala@dhpump.com

Project Name: Daybreak Dairy
 Project Signature: Ansel N. Rivera
 Project Location (including state): Del Norte Dairy, 12560 Stern Drive, Mesquite, NM
 Del Norte Dairy, P.O. Box 10, Mesquite, NM 88048
 Linda Armstrong 575-233-3620

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	AIR	SLUDGE		HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
126-4		1	250mL	X				X			X			2-12-13	11:14
126-4		1	250mL	X				X			X			2-12-13	11:14
126-5		1	250mL	X				X			X			2-12-13	14:47
126-5		1	250mL	X				X			X			2-12-13	14:47
126-7		1	250mL	X				X			X			2-12-13	11:58
126-7		1	250mL	X				X			X			2-12-13	11:58
126-9		1	250mL	X				X			X			2-12-13	7:57
126-9		1	250mL	X				X			X			2-12-13	7:57
126-12		1	250mL	X				X			X			2-12-13	14:13
126-12		1	250mL	X				X			X			2-12-13	14:13
126-13		1	250mL	X				X			X			2-12-13	9:56
126-13		1	250mL	X				X			X			2-12-13	9:56
126 Lagoon		1	250mL	X				X			X			2-12-13	12:47
126 Lagoon		1	250mL	X				X			X			2-12-13	12:47
126 Lagoon		1	250mL	X				X			X			2-12-13	12:47

LAB Order ID # _____

ANALYSIS REQUEST

PAH 8270 (Low Level Analysis)	
PAH 8270C	
TX 1005 Extended (C35)	
TFH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Phosphorus SM 4500	
Turn Around Time	
Hold	

Remarks: NO₃, TDS, CI = E-P

Lab Use Only
 Intial Y / N
 Headspace Y / N
 Temp 112.5 F
 Log-in Review _____

Relinquished By: Ansel N. Rivera Date: 2-12-13 Time: 15:23
 Received at Laboratory By: [Signature] Date: 2-12-13 Time: 15:23

Dry Weight Basis Required 15
 TRRP Report Required _____

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-05 Date Gauged 2-12-13
 Site Del Norte Time Gauged 14:20
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 24.71 feet Height of Fluid Column 10.26 feet
 Total Depth 34.97 feet Volume in Well 1.7 gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 14:22 2-12-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
14:26	1	1	19.2	4644	8.21	229	3586
14:30	1	2	19.0	4613	8.12	250	3572
14:36	1	3	18.9	4569	8.10	253	3518
14:40	1	4	18.7	4457	8.06	250	3462
14:44	1	5	18.8	4443	7.87	246	3445

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 14:47 2-12-13 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 120-12 Date Gauged 2-12-13
 Site Del Norte Time Gauged 12:58
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 20.92 feet Height of Fluid Column 9.03 feet
 Total Depth 29.95 feet Volume in Well 5.95 gallons
 (3 Well Volumes = 18 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:00 2-12-13 Purged Method Boiler

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:22	11	11	20.0	3508	8.68	247	2643
13:28	1	12	19.9	3531	8.20	241	2663
13:35	1	13	19.7	3525	8.13	239	2656
13:41	1	14	19.5	3519	8.06	246	2650
13:47	1	15	19.3	3540	7.99	254	2671
13:54	1	16	19.0	3546	7.91	251	2675
14:01	1	17	18.8	3536	7.82	246	2669
14:08	1	18	18.7	3554	7.74	241	2688

Actual Purge Volume 18 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 14:13 2-12-13 Purged/Sampled By Angel N. Rivera

Sample Method Boiler

Requested Analyses _____

Comments/Observations _____

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

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-07 Date Gauged 2-12-13
 Site Del Norte Time Gauged 11:23

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 32.56 feet Height of Fluid Column 5.73 feet
 Total Depth 38.29 feet Volume in Well 0.9 gallons
 (3 Well Volumes = 3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:27 2-12-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:33	1.5	.5	19.0	4037	7.86	228	3046
11:35	1	1.5	19.4	4000	7.76	220	3062
11:41	1	2.5	19.1	4023	7.63	226	3091
11:45	1	3.5	19.8	4001	7.58	225	3026
11:49	1	4.5	19.6	4097	7.55	233	3044
11:53	1	5.5	19.7	4019	7.50	249	3094

Actual Purge Volume 4.5 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:58 2-12-13 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 126-04 Date Gauged 2-12-13
 Site Del Norte Time Gauged 10:03

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 32.05 feet Height of Fluid Column 5.91 feet
 Total Depth 37.96 feet Volume in Well 3.9 gallons
 (3 Well Volumes = ~~4~~ 12 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:07 2-12-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:18	5	5	19.3	3675	7.80	83	2778
10:24	1	6	19.4	3823	7.66	100	2920
10:30	1	7	19.7	3835	7.63	123	2924
10:38	1	8	19.1	3715	7.59	113	2827
10:43	1	9	19.0	3698	7.57	121	2790
10:51	1	10	19.9	3736	7.59	136	2812
10:59	1	11	19.2	3831	7.57	129	2883
11:07	1	12	18.9	3827	7.51	146	2901

Actual Purge Volume 12 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:14 2-12-13 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 126-13 Date Gauged 2-12-13
 Site Del Norte Time Gauged 8:19

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 39.06 feet Height of Fluid Column 20.16 feet
 Total Depth 59.22 feet Volume in Well 3.4 gallons
 (3 Well Volumes = 10 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:26 2-12-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:43	3	3	19.3	4403	7.97	166	3411
8:47	1	4	19.6	4367	7.76	168	3363
8:56	1	5	19.4	4434	7.68	171	3401
9:05	1	6	19.2	4410	7.63	170	3394
9:16	1	7	20.6	4414	7.65	170	3376
9:32	1	8	20.2	4387	7.60	170	3380
9:39	1	9	20.0	4412	7.58	160	3387
9:48	1	10	19.5	4381	7.50	168	3377

Actual Purge Volume 10 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:56 2-12-13 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 126-09 Date Gauged 2-12-13
 Site Del Norte Time Gauged 7:16
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 74.60 feet Height of Fluid Column 7.33 feet
 Total Depth 81.63 feet Volume in Well 1.24 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:23 2-12-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DQ (mg/L)
7:31	1	1	21.1	4655	7.26	238	3614
7:38	1	2	20.2	4601	7.92	212	3572
7:49	1	3	19.7	3642	7.97	204	3639
	1	4					

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 7:57 2-12-13 Purged/Sampled By Angel N. Rinva

Sample Method Bailer

Requested Analyses _____

Comments/Observations After 2 gallons water flow was low, left Bailer inside well and still could not get full bailer. Took sample after ~~2~~ 3 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-01 Date Gauged 2-27-13
 Site Del Oro Time Gauged 13:54

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 59.91 feet Height of Fluid Column 0 feet
 Total Depth Pump feet Volume in Well 0 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:55 2-27-13 Purged Method Pump Purge

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:59	8	8	20.6	3581	7.95	262	2702
14:03	1	9	21.5	3583	7.61	244	2713
14:05	1	10	21.6	3640	7.66	212	2732
14:07	1	11	21.3	3791	7.64	169	2866
14:11	1	12	21.2	3882	7.62	145	2941
14:13	1	13	21.7	3904	7.63	140	2953
14:16	1	14	21.3	3912	7.64	139	2958
14:19	1	15	21.7	3953	7.58	137	2992

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 14:26 2-27-13 Purged/Sampled By Angel N. Rivera

Sample Method Pump Purge

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID WA2-02 Date Gauged 2-27-13
 Site Del Oro Time Gauged 7:12

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 56.87 feet Height of Fluid Column 9.4 feet
 Total Depth 66.27 feet Volume in Well 6.2 gallons
 (3 Well Volumes = 18 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:22 2-27-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
7:36	11	11	20.2	2495	8.59	152	1837
7:38	1	12	19.5	2440	8.24	165	1803
7:41	1	13	20.3	2496	7.99	167	1842
7:44	1	14	20.1	2452	7.89	169	1799
7:46	1	15	20.0	2510	7.85	172	1831
7:48	1	16	20.6	2520	7.80	174	1853
7:50	1	17	20.7	2515	7.76	175	1861
7:55	1	18	20.9	2536	7.67	178	1873

Actual Purge Volume 18 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 7:58 2-27-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-07 Date Gauged 2-27-13
 Site Del Oro Time Gauged 8:17
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 58.11 feet Height of Fluid Column 2.58 feet
 Total Depth 60.69 feet Volume in Well 1.7 gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:24 2-27-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:36	1	1	17.9	3598	8.06	185	2734
8:43	1	2	17.6	3777	7.72	189	2871
8:47	1	3	17.9	3695	7.64	188	2809
8:50	1	4	18.2	3705	7.58	187	2824
8:54	1	5	18.5	3731	7.41	185	2868

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 8:57 2-27-13 Purged/Sampled By Angel N. Rivera
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-05 Date Gauged 2-27-13
 Site Del Oro Time Gauged 9:44
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 78.85 feet Height of Fluid Column 0 feet
 Total Depth Pump feet Volume in Well 0 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:55 2-27-13 Purged Method Pump Purge

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:13	8	8	19.1	2273	7.99	314	1657
10:21	1	9	20.8	2233	7.76	294	1635
10:28	1	10	20.6	2353	7.64	277	1713
10:30	1	11	20.3	2344	7.82	304	1711
10:33	1	12	20.5	2376	7.90	297	1720
10:38	1	13	19.6	2328	7.86	285	1739
10:42	1	14	20.5	2316	7.83	278	1682
10:49	1	15	21.2	2266	7.74	272	1662

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:53 2-27-13 Purged/Sampled By Angel N. Rivera

Sample Method Pump Purge

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-06 Date Gauged Nov 2-27-13
 Site Del Oro Time Gauged 11:02

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 80.89 feet Height of Fluid Column 9.2 feet
 Total Depth 90.09 feet Volume in Well 6.07 gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:12 2-27-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:27	11	11	20.2	2293	8.14	314	1672
11:31	1	12	21.4	2280	7.87	299	1662
11:34	1	13	21.3	2272	7.74	289	1666
11:38	1	14	20.6	2262	7.70	281	1656
11:41	1	15	20.5	2254	7.73	268	1648
11:44	1	16	19.9	2252	7.69	264	1643
11:48	1	17	20.8	2241	7.71	257	1641
11:50	1	18	20.5	2232	7.59	243	1620

Actual Purge Volume 18 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:55 2-27-13 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 ga/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-07 Date Gauged 2-27-13
 Site Del oro Time Gauged 12:47

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 72.55 feet Height of Fluid Column 0 feet
 Total Depth Pump feet Volume in Well 0 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:49 2-27-13 Purged Method Purge Pump.

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DG (mg/L)
12:59	8	8	21.5	2598	8.30	327	1916
13:02	1	9	21.3	2611	8.03	309	1929
13:04	1	10	21.2	2608	7.93	298	1927
13:06	1	11	21.1	2602	7.73	289	1913
13:08	1	12	19.9	2612	7.91	337	1931
13:10	1	13	19.7	2649	8.01	329	1918
13:12	1	14	20.7	2556	7.98	302	1883
13:14	1	15	20.3	2542	7.86	288	1811

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:17 2-27-13 Purged/Sampled By Angel N. Rivera

Sample Method Purge 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: 692-08 Date Gauged: 2-27-13
 Site: Del oro Time Gauged: 13:20
 Depth to PSH: _____ feet Well Diameter: 4 inches
 Depth to Water: 66.60 feet Height of Fluid Column: Ø feet
 Total Depth: Pump feet Volume in Well: Ø gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged: 13:21 2-27-13 Purged Method: Pump Purge

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:26	8	8	21.4	2292	8.19	255	1671
13:30	1	9	21.3	2277	7.90	209	1660
17:33	1	10	21.0	2258	7.63	107	1643
13:36	1	11	20.7	2276	7.52	43	1668
13:39	1	12	21.3	2280	7.56	12	1657
13:40	1	13	21.0	2264	7.63	97	1663
13:42	1	14	20.8	2241	7.70	128	1644
13:44	1	15	20.0	2258	7.61	147	1614

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 13:47 2-27-13 Purged/Sampled By Angel N. Rivera
 Sample Method Pump Purge
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-09 Date Gauged 2-27-13
 Site Del Oro Time Gauged 9:03

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 82.02 feet Height of Fluid Column 0 feet
 Total Depth Pump feet Volume in Well 0 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:07 2-27-13 Purged Method Pump Purge

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:16	8	8	19.3	2261	8.03	175	1665
9:18	1	9	21.0	2299	7.88	177	1683
9:21	1	10	21.1	2324	7.76	176	1695
9:22	1	11	21.6	2301	7.74	175	1680
9:23	1	12	21.9	2351	7.71	177	1772
9:25	1	13	21.5	2374	7.65	175	1732
9:27	1	14	20.6	2362	7.72	183	1727
9:30	1	15	22.5	2331	7.62	182	1705

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:36 2-27-13 Purged/Sampled By Angel N. Rivera

Sample Method Pump Purge

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

TraceAnalysis, Inc.

Company Name: **D&H Petroleum & Environmental Services** Phone #: 915-859-8150 Cell #: 915-859-8150

Address: (Street, City, Zip) **1221 Tower Trail Ln, El Paso TX 79907**
E-mail: **vajala@dhpump.com**

Contact Person: **Victor Ayala**

Invoice to (if different from above): **Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048**

Project #: **407265** Project Name: **Dominguez Dairy #1**

Project Location (including state): **Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM**

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		Turn Around Time			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICF	NONE		DATE	TIME	
624-01		1	250ml	X				X				X			2-14-13	10:36	
624-01		1	250ml	X				X				X			2-14-13	10:36	
624-02		1	250ml	X				X				X			2-14-13	11:30	
624-02		1	250ml	X				X				X			2-14-13	11:30	
624-04		1		X				X				X					
624-04		1		X				X				X					
624-05		1	250ml	X				X				X			2-14-13	12:38	
624-05		1	250ml	X				X				X			2-14-13	12:38	
624-06		1	250ml	X				X				X			2-14-13	14:16	
624-06		1	250ml	X				X				X			2-14-13	14:16	
624-07		1		X				X				X					
624-07		1		X				X				X					
624-08		1		X				X				X					
624-08		1		X				X				X					
624 Lagoon		1	250ml	X				X				X			2-14-13	9:17	
624 Lagoon		1	250ml	X				X				X			2-14-13	9:17	

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

LAB Order ID # _____

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: **Josel N. Rivera** Date: **2-14-13** Time: **15:10**

Received By: **Denny de Haro** Date: **15-16** Time: **2:44-13**

Relinquished By: _____ Date: _____ Time: _____

Received at Laboratory By: _____ Date: _____ Time: _____

Remarks: **ICE**

Lab Use Only Intact **Y/N**

Headspace **Y/N**

Temp **0/20C**

Log-in Review _____

Dry Weight Basis Required

TRRP Report Required

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 1024-01 Date Gauged 2-14-13
 Site Dominquez 1 Time Gauged 9:31
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 26.39 feet Height of Fluid Column 19.17 feet
 Total Depth 45.56 feet Volume in Well 12.6 gallons
 (3 Well Volumes = 38 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:38 2-14-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:03	31	31	19.6	3856	8.37	304	2935
10:07	1	32	19.7	3820	8.39	281	2887
10:13	1	33	19.4	3801	8.11	262	2876
10:16	1	34	19.5	3823	8.09	251	2904
10:20	1	35	18.9	3816	8.06	243	2900
10:24	1	36	19.3	3883	8.02	233	2969
10:28	1	37	19.1	3943	7.94	228	2985
10:33	1	38	19.0	3896	7.91	224	2964

Actual Purge Volume 38 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:36 2-14-13 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 624-02 Date Gauged 2-14-13
 Site Dominquez 1 Time Gauged 10:45
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 19.13 feet Height of Fluid Column 12.32 feet
 Total Depth 31.45 feet Volume in Well 8.13 gallons
 (3 Well Volumes = 24 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:49 2-14-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:11	17	17	19.4	5087	8.03	186	3966
11:13	1	18	19.2	5097	7.77	193	3994
11:17	1	19	19.1	5083	7.66	197	3970
11:20	1	20	19.3	5127	7.63	200	3993
11:23	1	21	19.2	5135	7.62	197	4011
11:22	1	22	19.0	5146	7.61	199	4025
11:24	1	23	18.8	5138	7.67	201	4015
11:27	1	24	19.1	5185	7.51	203	4080

Actual Purge Volume 24 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:30 2-14-13 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 624-04 Date Gauged 2-14-13
 Site Dominguez I Time Gauged 13:30

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water Dry feet Height of Fluid Column Dry feet
 Total Depth 16.33 feet Volume in Well Dry gallons
 (3 Well Volumes = 0 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 0 Purged Method 0

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DQ (mg/L)

Actual Purge Volume 0 gals Field Measurements stabilized within ± 10% 0
 Time/Date Sampled 0 Purged/Sampled By Angel W. Rivera
 Sample Method 0
 Requested Analyses _____
 Comments/Observations Cannot purge or sample 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 624-05 Date Gauged 2-14-13
 Site Dominquez 1 Time Gauged 11:38
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 16.72 feet Height of Fluid Column 0.51 feet
 Total Depth 17.23 feet Volume in Well 0.33 gallons
 (3 Well Volumes = 1 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:46 2-14-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
11:55	.5	.5	19.1	3221	8.58	233	2410
12:03	.5	1	18.9	3202	8.51	231	2399
12:15	.5	1.5	19.2	3209	8.48	218	2404

Actual Purge Volume 1.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:38 2-14-13 Purged/Sampled By Angel N. Rivera

Sample Method Bailer

Requested Analyses _____

Comments/Observations Very low water flow. Took a while to get water to purge and to 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 624-06 Date Gauged 2-14-13
 Site Dominique I Time Gauged 8:06
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 51.83 feet Height of Fluid Column 0.46 feet
 Total Depth 52.29 feet Volume in Well 0.30 gallons
 (3 Well Volumes = 1 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:23 2-14-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
	.5	.5	19.6	3633	8.21	236	4622
	.5	1					
	.5	1.5					

Actual Purge Volume 1.5 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 14:16 2-14-13 Purged/Sampled By Angel M. Rivera
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Not enough water to purge, left Bailer inside well to see if it can 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 624-07 Date Gauged 2-14-13
 Site Dominquez I Time Gauged 13:42
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water Dry feet Height of Fluid Column Dry feet
 Total Depth 55.63 feet Volume in Well Dry gallons
 (3 Well Volumes = 0 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 0 Purged Method 0

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

Actual Purge Volume 0 gals Field Measurements stabilized within ± 10% 0
 Time/Date Sampled 0 Purged/Sampled By Angel M. Rivera
 Sample Method 0
 Requested Analyses _____
 Comments/Observations Cannot purge or sample 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 624-08 Date Gauged 2-14-13
 Site Dominquez I Time Gauged 12:54

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water Dry feet Height of Fluid Column Dry feet
 Total Depth 19.38 feet Volume in Well Dry gallons
 (3 Well Volumes = Dry gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged Ø Purged Method Ø

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

Actual Purge Volume Ø gals Field Measurements stabilized within ± 10% Ø
 Time/Date Sampled Ø Purged/Sampled By Angel N. Rivera
 Sample Method Ø
 Requested Analyses _____
 Comments/Observations Cannot purge or sample 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-03A Date Gauged 2-18-13
 Site Gonzalez Time Gauged 12:53

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 20.01 feet Height of Fluid Column 15.91 feet
 Total Depth 35.92 feet Volume in Well 2.7 gallons
 (3 Well Volumes = 8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:56 2-18-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
13:01	1	1	25.3	3345	8.63	275	2483
13:06	1	2	25.1	3072	7.90	239	2274
13:12	1	3	25.7	5707	7.59	277	4459
13:14	1	4	25.9	5857	7.60	261	4587
13:16	1	5	25.5	5815	7.52	253	4544
13:19	1	6	25.1	5859	7.49	251	4580
13:23	1	7	24.7	5866	7.46	188	4630
13:25	1	8	24.3	5916	7.42	200	4636

Actual Purge Volume 8 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 13:31 2-18-13 Purged/Sampled By Anya 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-04 Date Gauged 2-18-13
 Site Gonzalez Time Gauged 11:24
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 24.27 feet Height of Fluid Column 21.92 feet
 Total Depth 46.19 feet Volume in Well 14.5 gallons
 (3 Well Volumes = 43 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:36 2-18-13 Purged Method low flow pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:53	36	36	21.0	5697	8.53	293	4497
11:55	1	37	20.2	5745	8.25	308	4520
11:58	1	38	20.8	5713	8.02	299	4503
12:01	1	39	20.5	5750	7.90	300	4558
12:04	1	40	20.6	5727	7.83	311	4520
12:05	1	41	20.2	5700	7.74	303	4513
12:07	1	42	20.0	5761	7.84	317	4544
12:11	1	43	19.9	5733	7.76	319	4525

Actual Purge Volume 43 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:19 2-18-13 Purged/Sampled By Angel N. Rivera

Sample Method low flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-05 Date Gauged 2-18-13
 Site Gonzalez Time Gauged 10:31

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 36.19 feet Height of Fluid Column 12.96 feet
 Total Depth 49.15 feet Volume in Well 8.5 gallons
 (3 Well Volumes = 26 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:39 2-18-13 Purged Method Low Flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:55	19	19	19.6	5342	8.22	275	4170
11:02	1	20	19.2	5588	7.89	284	4390
11:05	1	21	19.1	5563	7.86	292	4408
11:07	1	22	19.4	5642	7.78	285	4502
11:08	1	23	18.9	6041	7.88	269	4786
11:10	1	24	19.2	5859	7.79	275	4697
11:13	1	25	19.4	6163	7.66	277	4946
11:15	1	26	19.0	6255	7.63	282	5010

Actual Purge Volume 26 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:18 2-18-13 Purged/Sampled By Angel N. Rivera

Sample Method Low flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-06 Date Gauged 2-18-13
 Site Gonzalez Dairy Time Gauged 9:30
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 50.42 feet Height of Fluid Column 1.21 feet
 Total Depth 51.63 feet Volume in Well 0.79 gallons
 (3 Well Volumes = 2. gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:51 2-18-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:02	.5	.5	20.1	4834	6.34	314	3744
10:06	.5	1	19.2	4841	7.08	324	3756
10:12	.5	1.5	19.7	4818	7.17	302	3768
10:14	.5	2	19.6	4835	7.20	293	3761
10:16	.5	2.5	19.3	4862	7.26	285	3782

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 10:23 2-18-13 Purged/Sampled By Angel N. Rivera
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Low water flow.

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-07R Date Gauged 2-19-13
 Site Gonzalez Time Gauged 9:18

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 44.40 feet Height of Fluid Column 9.69 feet
 Total Depth 54.09 feet Volume in Well 6.40 gallons
 (3 Well Volumes = 19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:29 2-19-13 Purged Method Low flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DG (mg/L)
9:43	12	12	18.8	5331	8.37	204	4223
9:46	1	13	19.3	5328	8.05	203	4206
9:49	1	14	19.1	5296	7.92	200	4160
9:51	1	15	19.4	5299	7.86	201	4180
9:53	1	16	19.2	5307	7.81	200	4185
9:56	1	17	19.3	5319	7.74	202	4171
9:59	1	18	18.9	5323	7.72	204	4192
10:02	1	19	18.6	5301	7.77	198	4184

Actual Purge Volume 19 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:10 2-19-13 Purged/Sampled By Angel N. Rivera

Sample Method Low flow 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-01 Date Gauged 2-19-13
 Site Gonzalez Time Gauged 7:19

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 17.75 feet Height of Fluid Column 7.51 feet
 Total Depth 25.26 feet Volume in Well 4.95 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:36 2-19-13 Purged Method low flow pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:47	8	8	18.0	6051	7.84	268	4891
7:49	1	9	18.6	6033	7.95	254	4818
7:51	1	10	18.3	5998	7.91	248	4783
7:53	1	11	18.0	6061	7.88	234	4837
7:56	1	12	18.1	6010	7.85	230	4799
7:58	1	13	17.9	5999	7.86	229	4771
8:02	1	14	18.1	5973	7.82	227	4749
8:03	1	15	18.3	5988	7.86	223	4834

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:06 2-19-13 Purged/Sampled By Angel N. Rivera

Sample Method Low flow 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 ga/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-02 Date Gauged 2-19-13
 Site Gonzalez Time Gauged 8:22

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 18.46 feet Height of Fluid Column 6.86 feet
 Total Depth 25.32 feet Volume in Well 4.52 gallons
 (3 Well Volumes = 14 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:24 2-19-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:36	7	7	17.3	4845	8.07	242	3812
8:38	1	8	17.6	4805	8.00	239	3774
8:39	1	9	17.2	4849	7.84	237	3811
8:43	1	10	17.4	4855	7.78	232	3751
8:45	1	11	17.9	4861	7.73	225	3858
8:48	1	12	18.1	4886	7.71	223	3814
8:49	1	13	17.8	4818	7.70	221	3756
8:52	1	14	17.9	4832	7.67	218	3769

Actual Purge Volume 14 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:55 2-19-13 Purged/Sampled By Angel N. Rivera

Sample Method Bailer

Requested Analyses _____

Comments/Observations _____

TraceAnalysis, Inc.

6707 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

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

Company Name: D&H Petroleum & Environmental Services

Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person: Victor Ayala

Phone #: 915-859-8150
Cell #: _____
Fax #: _____
E-mail: yavala@dhpump.com

Invoice to (if different from above): Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048

Project #: 407269
Project Name: Mountain View Dairy

Project Location (including state): Mountain View Dairy, 13090 Stern Drive, Mesquite, NM
Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	Sampling	ANALYSIS REQUEST
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH				
	IRR WELL LRG-00457	1	500ml	X						X	X		2-28-13	7:00	MTBE 8021B/602
	IRR WELL RG-00457	1	250ml	X						X	X		2-28-13	7:00	BTEX 8021B/602
	IRR WELL RG-00457	1	250ml	X						X	X		2-28-13	7:00	TPH 418.1 / TX1005
															Nitrate as Nitrogen EPA 300.0
															Salinity
															EC
															pH
															Carbonates
															SAR
															Potassium
															Phosphorus SM 4500
															Total Nitrogen
															Turn Around Time
															Hold

Relinquished By: *[Signature]* Date: 2/28/13 Time: 3:00 PM

Received By: *[Signature]* Date: 2-28-13 Time: 7:00

Relinquished By: *[Signature]* Date: 2-28-13 Time: 15:08

Received at Laboratory By: *[Signature]* Date: 2-28-13 Time: 15:08

Lab Use Only
Intact Y / N
Headspace Y / N
Temp *91°C* *100*
Log-in Review

Remarks: NO₃, pH, EC, Atx, Sat., in EPA
COPY TO *[Signature]*
Dry Weight Basis Required
TRRP Report Required

③

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1286
Fax (806) 794-1288
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 595-3443
Fax (915) 595-4944

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 76006
Tel (972) 242-7750

Company Name: **D&H Petroleum & Environmental Services**

Phone #: **915-859-8150**

Address: **1221 Tower Trail Ln El Paso, Texas 70097**

Fax #: **915-859-7229**

Contact Person: **Victor Ayala**

E-mail: **vayala@dh-enviro.com**

Invoice to: **ATTN: John DeRuter - Mountain View Dairy PO Box 345 Mesquite, NM 88048**

Project #: **407269** Project Name: **Mountain View Dairy**

Project Location: **Mountain View Dairy, 13090 Stern Dr. Mesquite, NM**

Sampler Signature: *And N River*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING DATE	TIME		
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH			ICE	NONE
70-01		1	1250m ³	X				X					2-13-09	14:40	
70-01		1	1250m ³	X				X						N.D.	
70-02		1	1250m ³	X				X						12:43	
70-02		1	1250m ³	X				X						12:43	
70-03		1	1250m ³	X				X						11:48	
70-03		1	1250m ³	X				X						11:48	
70-04		1	1250m ³	X				X							
70-04		1	1250m ³	X				X							
70 Lagoon		1	1250m ³	X				X						2-13-09	13:09
70 Lagoon		1	1250m ³	X				X							13:09
70 Lagoon		1	1250m ³	X				X							13:09

Relinquished by: *John DeRuter* Company: **D&H** Date: **2-13-09** Time: **15:25**

Received by: *[Signature]* Company: _____ Date: _____ Time: _____

Relinquished by: _____ Company: _____ Date: _____ Time: _____

Received by: _____ Company: _____ Date: _____ Time: _____

ANALYSIS REQUEST (Circle or Specify Method No.)

<input type="checkbox"/>	MTBE 8021B / 602 / 8260B / 624
<input type="checkbox"/>	BTEX 8021B / 602 / 8260B / 624
<input type="checkbox"/>	TPH 418.1 / TX1005 / DRO / TVHC
<input type="checkbox"/>	PAH 8270C / 625
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	TCLP Pesticides
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260B / 624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input type="checkbox"/>	PCBs 8082 / 608
<input type="checkbox"/>	Nitrate as Nitrogen EPA 300.0
<input type="checkbox"/>	Chloride EPA Method 300.0
<input type="checkbox"/>	Sulfate EPA Method 300.0
<input type="checkbox"/>	Total Dissolved Solids SM 2540 C MOD
<input type="checkbox"/>	Total Kjeldahl Nitrogen SM 4500 NORG C
<input type="checkbox"/>	Phosphorus SM 4500
<input type="checkbox"/>	Sulfur
<input type="checkbox"/>	Turn Around Time if different from standard

REMARKS: *LOE TRN & phosphorus unbrack call in El Paso*

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

LAB USE ONLY

Carrier # *107911*

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70-01 Date Gauged 2-13-13
 Site Mountain View Time Gauged 13:14

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 33.55 feet Height of Fluid Column 11.81 feet
 Total Depth 45.36 feet Volume in Well 7.8 gallons
 (3 Well Volumes = 23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:16 2-13-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:31	16	16	20.9	4116	8.59	139	3144
13:36	1	17	20.0	4115	8.05	140	3136
13:40	1	18	20.5	4096	7.94	152	3127
13:43	1	19	20.1	4085	7.88	156	3132
13:47	1	20	20.3	4116	7.86	167	3140
13:51	1	21	20.8	4126	7.77	179	3145
13:56	1	22	20.6	4110	7.72	185	3147
13:57	1	23	20.5	4141	7.66	194	3158

Actual Purge Volume 23 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 14:00 2-13-13 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 10-02 Date Gauged 2-13-13
 Site Mountain View Time Gauged 11:57

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 43.10 feet Height of Fluid Column 6.37 feet
 Total Depth 49.47 feet Volume in Well 4 gallons
 (3 Well Volumes = 13 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:03 2-13-13 Purged Method Boiler

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:18	6	6	21.3	5170	8.25	139	4024
12:21	1	7	21.5	5118	8.05	126	3971
12:23	1	8	20.9	5150	8.05	152	3976
12:25	1	9	20.8	5127	8.03	168	4010
12:28	1	10	21.9	5137	7.92	173	3987
12:31	1	11	20.9	5128	7.94	181	3993
12:36	1	12	20.3	5114	7.96	172	3989
12:40	1	13	20.1	5187	7.87	168	4047

Actual Purge Volume 13 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 12:43 2-13-13 Purged/Sampled By Angel H Rivera
 Sample Method Boiler
 Requested Analyses _____
 Comments/Observations _____

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

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70-03 Date Gauged 2-13-13
 Site Mountain View Time Gauged 10:38
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 53.45 feet Height of Fluid Column 11.64 feet
 Total Depth 65.09 feet Volume in Well 7.6 gallons
 (3 Well Volumes = 23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:44 2-13-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:58	16	16	20.0	10.53	8.12	166	8868
11:06	1	17	19.6	10.25	7.78	158	8608
11:10	1	18	19.5	10.34	7.68	163	8677
11:15	1	19	19.4	10.59	7.63	165	8918
11:21	1	20	20.0	11.16	7.67	178	9439
11:25	1	21	19.6	12.18	7.46	183	10.42
11:31	1	22	19.9	11.98	7.54	187	10.25
11:36	1	23	19.5	12.05	7.40	191	10.14

Actual Purge Volume 23 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:48 2-13-13 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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1298

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 565-3443
Fax (915) 565-4844

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: **D&H Petroleum & Environmental Services** Phone #: **915-859-8150**

Address: **1221 Tower Trail Ln El Paso, Texas 70097** Fax #: **915-859-7229**

Contact Person: **Victor Ayala** E-mail: **vayala@dh-enviro.com**

Invoice to: **ATTN: John DeRuter - Mountain View Dairy PO Box 345 Mesquite, NM 88048**

Project #: **PO # 287699** Project Name: **Mountain View Dairy**

Project Location: **Mountain View Dairy, 13090 Stern Dr. Mesquite, NM**

Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING				
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
70-01		1	250ml X					X				X				
70-01		1	250ml X					X				X				
70-02		1	250ml X					X				X				
70-02		1	250ml X					X				X				
70-03		1	250ml X					X				X				
70-03		1	250ml X					X				X				
70-04		1	250ml X					X				X				
70-04		1	250ml X					X				X				
70-Lagoon		1	250ml X					X				X				
70-Lagoon		1	250ml X					X				X				

Relinquished by: *[Signature]* Company: **D&H** Date: **1-11-13 13:10** Time: **13:10** INST: **IR22**

Received by: *[Signature]* Company: **D&H** Date: **1-11-13 13:10** Time: **13:10** INST: **OBS 3**

Relinquished by: *[Signature]* Company: **D&H** Date: **1-11-13 13:10** Time: **13:10** INST: **COR 3**

Received by: *[Signature]* Company: **D&H** Date: **1-11-13 13:10** Time: **13:10** INST: **COR 3**

ANALYSIS REQUEST

(Circle or Specify Method No.)

Method No.	Method Name	Request
MTBE 8021B / 602 / 8260B / 624	MTBE 8021B / 602 / 8260B / 624	
BTEX 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	
TPH 418.1 / TX1005 / DRO / TVHC	TPH 418.1 / TX1005 / DRO / TVHC	
PAH 8270C / 625	PAH 8270C / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	TCLP Volatiles	
TCLP Semi Volatiles	TCLP Semi Volatiles	
TCLP Pesticides	TCLP Pesticides	
RCI	RCI	
GC/MS Vol. 8260B / 624	GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	GC/MS Semi. Vol. 8270C/625	
PCBs 8082 / 606	PCBs 8082 / 606	
Nitrate as Nitrogen EPA 300.0	Nitrate as Nitrogen EPA 300.0	X
Chloride EPA Method 300.0	Chloride EPA Method 300.0	X
Sulfate EPA Method 300.0	Sulfate EPA Method 300.0	X
Total Dissolved Solids SM 2540 C MOD	Total Dissolved Solids SM 2540 C MOD	X
Total Kjeldahl Nitrogen SM 4500 NORG C	Total Kjeldahl Nitrogen SM 4500 NORG C	X
Phosphorus SM 4500	Phosphorus SM 4500	
Turn Around Time if different from standard	Turn Around Time if different from standard	

REMARKS: **TDS, SO₄, NO₃, Cl**

LAB USE: Dry Weight Basis Required TRRP Report Required Check if Special Reporting Limits Are Needed

intact: Y / N

Headspace Y / N / NA

Log-in Review:

Carrier # **123456789**

ATTACHMENT E
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70-04 Date Gauged 1-11-13
 Site Mountain View Time Gauged 11:13 am
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 28.74 feet Height of Fluid Column 16.5 feet
 Total Depth 45.24 feet Volume in Well 2.8 gallons
 (3 Well Volumes = 8.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:23	1	1	20.3	4286	7.90	192	3369
11:31 am	1	2	20.6	4107	7.79	179	3209
11:38	1	3	20.1	4091	7.83	185	3201
11:46	1	4	19.9	4109	7.74	193	3221
11:52	1	5	19.3	4119	7.73	196	3226
12:01 pm	1	6	19.7	4126	7.77	198	3237
12:08	1	7	19.6	4127	7.78	199	3226
12:15	1	8	19.3	4146	7.89	201	3250
12:23	1	9	16.9	4134	7.86	203	3250

Actual Purge Volume 9 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 1/11/13 12:24 pm Purged/Sampled By Isaac Carter

Sample Method Bailing

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.65 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-08 Date Gauged 2-25-13
 Site River Valley Time Gauged 9:28
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 16.70 feet Height of Fluid Column 16.97 feet
 Total Depth 33.67 feet Volume in Well 2.88 gallons
 (3 Well Volumes = 7 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:36 2-25-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:41	1	1	17.5	4458	6.78	281	3436
9:44	1	2	16.7	4384	7.21	282	3388
9:47	1	3	17.1	4433	7.23	300	3443
9:50	1	4	16.9	4421	7.29	245	3420
9:54	1	5	16.8	4431	7.33	162	3402
9:57	1	6	16.4	4385	7.28	158	3409
10:02	1	7	15.8	4396	7.36	156	3375

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 10:05 2-25-13 Purged/Sampled By Angel N. Rivera
 Sample Method Bailer
 Requested Analyses _____

Comments/Observations PVC from well is damaged, Regular bailer would not go in, used smaller bailer.

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-07 Date Gauged 2-20-13
 Site River Valley Time Gauged 11:11

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 15.84 feet Height of Fluid Column 13.46 feet
 Total Depth 29.30 feet Volume in Well 2.3 gallons
 (3 Well Volumes = 7 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:13 2-20-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:16	1	1	19.6	3056	8.06	-18	2269
11:19	1	2	19.9	3028	7.99	-22	2249
11:21	1	3	19.7	3046	7.83	-26	2263
11:24	1	4	19.5	3034	7.80	-36	2251
11:26	1	5	19.4	3086	7.77	-35	2291
11:29	1	6	19.0	3207	7.91	-30	2397
11:33	1	7	19.5	3062	7.83	-40	2278

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:38 2-20-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-06 Date Gauged 2-20-13
 Site River Valley Time Gauged 10:47

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 29.97 feet Height of Fluid Column 7.79 feet
 Total Depth 37.76 feet Volume in Well 1.32 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:53 2-20-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
10:55	1	1	21.2	4169	8.13	172	3181
10:58	1	2	21.7	4195	7.83	177	3210
10:00	1	3	21.6	4203	7.76	183	3208
11:02	1	4	21.5	4216	7.85	184	3220

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:05 2-20-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-01A Date Gauged 2-20-13

Site River Valley Time Gauged 11:56

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 17.44 feet Height of Fluid Column 7.64 feet

Total Depth 25.08 feet Volume in Well 1.29 gallons

(3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:59 2-20-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
12:05	1	1	18.9	4941	8.50	129	3851
12:07	1	2	18.3	4956	8.19	133	3859
12:11	1	3	18.1	4932	8.06	157	3852
12:15	1	4	18.0	4941	8.00	192	3842

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:20 2-20-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-0404 Date Gauged 2-20-13
 Site River Valley Time Gauged 13:45

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 24.83 feet Height of Fluid Column 4.92 feet
 Total Depth 29.75 feet Volume in Well 0.8 gallons
 (3 Well Volumes = 2.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:48 2-20-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
13:57	1	1	20.4	6942	8.74	272	5552
13:59	1	2	20.1	6772	8.42	261	5427
14:05	1	3	19.8	6296	8.22	255	5015

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 14:17 2-20-13 Purged/Sampled By Angell N. Rivers

Sample Method Bailer

Requested Analyses _____

Comments/Observations Low water flow.

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-02 Date Gauged 2-20-13
 Site River Valley Time Gauged 12:43

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water Dry feet Height of Fluid Column ∅ feet
 Total Depth 23.46 feet Volume in Well ∅ gallons
 (3 Well Volumes = ∅ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ∅ Purged Method ∅

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)

Actual Purge Volume ∅ gals Field Measurements stabilized within ± 10% ∅
 Time/Date Sampled ∅ Purged/Sampled By Angel N. Rivera
 Sample Method ∅
 Requested Analyses _____
 Comments/Observations Cannot purge or sample 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-05 Date Gauged 2-21-13
 Site River Valley Time Gauged 10:14
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 14.96 feet Height of Fluid Column 6.99 feet
 Total Depth 21.95 feet Volume in Well 1.18 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:19 2-21-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:22	1	1	17.5	5163	8.45	244	4034
10:24	1	2	17.7	5124	8.08	243	4099
10:28	1	3	17.9	4975	7.98	241	3907
10:30	1	4	18.2	4957	7.980	237	3888

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:34 2-21-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-03 Date Gauged 2-21-13
 Site River Valley Time Gauged 7:26
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 22.04 feet Height of Fluid Column 19.9 feet
 Total Depth 41.94 feet Volume in Well 13.1 gallons
 (3 Well Volumes = 39 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:40 2-21-13 Purged Method Redi-Flow Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:58	32	32	20.7	3321	9.25	169	2485
8:02	1	33	21.8	3276	8.73	174	2452
8:06	1	34	21.6	3266	8.60	176	2422
8:10	1	35	21.3	3262	8.34	182	2445
8:15	1	36	22.0	3278	8.19	183	2431
8:18	1	37	22.1	3260	8.11	182	2417
8:22	1	38	21.1	3277	8.10	193	2449
8:27	1	39	21.3	3241	8.05	186	2438

Actual Purge Volume 39 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 8:32 2-21-13 Purged/Sampled By Angel N. Rivera

Sample Method Redi-Flow 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 ga/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 167-09 Date Gauged 2-21-13
 Site River Valley Time Gauged 9:39
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 15.39 feet Height of Fluid Column 4.66 feet
 Total Depth 20.05 feet Volume in Well 0.79 gallons
 (3 Well Volumes = 2 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:44 2-21-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DE (mg/L)
9:50	.5	.5	16.1	5098	8.68	273	4046
9:52	.5	1	16.0	5149	8.42	269	4106
9:59	.5	1.5	15.9	5176	8.14	264	4099
10:01	.5	2	15.7	5153	8.03	262	4149

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:06 2-21-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 257-03 Date Gauged 2-21-13
 Site Sunset Time Gauged 13:58

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 12.36 feet Height of Fluid Column 7.57 feet
 Total Depth 19.93 feet Volume in Well 1.28 gallons
 (3 Well Volumes = 4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 14:03 2-21-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
14:09	1	1	15.6	3535	8.25	153	2703
14:11	1	2	16.2	3393	8.00	159	2562
14:15	1	3	16.1	3353	7.95	163	2542
14:19	1	4	16.0	3364	7.88	166	2531

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 14:22 2-21-13 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 257/260-01 Date Gauged 2-21-13
 Site Sunset Dairy Time Gauged 11:07

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 13.09 feet Height of Fluid Column 7.29 feet
 Total Depth 20.38 feet Volume in Well 4.81 gallons
 (3 Well Volumes = 14 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:11 2-21-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
<u>11:30</u>	<u>7</u>	<u>7</u>	<u>9.4</u>	<u>1046</u>	<u>8.38</u>	<u>243</u>	<u>656.7</u>
<u>11:34</u>	<u>1</u>	<u>8</u>	<u>15.8</u>	<u>4610</u>	<u>8.17</u>	<u>258</u>	<u>3561</u>
<u>11:39</u>	<u>1</u>	<u>9</u>	<u>15.7</u>	<u>4531</u>	<u>8.04</u>	<u>254</u>	<u>3531</u>
<u>11:42</u>	<u>1</u>	<u>10</u>	<u>15.1</u>	<u>4571</u>	<u>8.00</u>	<u>247</u>	<u>3555</u>
<u>11:44</u>	<u>1</u>	<u>11</u>	<u>15.3</u>	<u>4609</u>	<u>7.92</u>	<u>235</u>	<u>3570</u>
<u>11:48</u>	<u>1</u>	<u>12</u>	<u>15.4</u>	<u>4619</u>	<u>7.87</u>	<u>221</u>	<u>3595</u>
<u>11:52</u>	<u>1</u>	<u>13</u>	<u>15.3</u>	<u>4631</u>	<u>7.85</u>	<u>207</u>	<u>3627</u>
<u>11:57</u>	<u>1</u>	<u>14</u>	<u>16.0</u>	<u>4625</u>	<u>7.83</u>	<u>194</u>	<u>3643</u>

Actual Purge Volume 14 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:12:04 2-21-13 Purged/Sampled By Angel D. Rivera

Sample Method Bailer

Requested Analyses _____

Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 257-02 Date Gauged 2-21-13
 Site Sunset Time Gauged 12:53

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 14.81 feet Height of Fluid Column 5.99 feet
 Total Depth 20.80 feet Volume in Well 1.01 gallons
 (3 Well Volumes = 3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:59 2-21-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:01	.5	.5	16.9	3001	8.64	239	2229
13:03	.5	1	17.3	2974	8.31	237	2216
13:04	.5	1.5	17.1	2980	8.21	235	2215
13:07	.5	2	17.4	2990	8.07	232	2227
13:09	.5	2.5	17.3	2999	8.01	231	2225
13:11	.5	3	16.8	3006	7.93	227	2250

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:13 2-21-13 Purged/Sampled By Ansel nR...

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 257-01 Date Gauged 2-21-13
 Site Sunset Time Gauged 13:19

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 20.38 feet Height of Fluid Column 5.72 feet
 Total Depth 26.10 feet Volume in Well 0.97 gallons
 (3 Well Volumes = 3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:23 2-21-13 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
13:25	.5	.5	18.9	4604	8.07	213	3572
13:26	.5	1	19.1	4642	7.96	211	3600
13:28	.5	1.5	19.2	4626	7.92	213	3607
13:30	.5	2	19.0	4638	7.94	214	3618
13:32	.5	2.5	19.1	4665	7.96	216	3606
13:33	.5	3	19.3	4654	7.89	215	3624

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:36 2-21-13 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

APPENDIX B
ANALYTICAL LABORATORY REPORTS
(Electronic Format – CD)



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 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.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: January 25, 2013

Work Order: 13011120



DP: 70
Project Location: 13090 Stern Dr., 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
318221	70-04	water	2013-01-11	12:24	2013-01-11

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

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2013-01-11 and assigned to work order 13011120. Samples for work order 13011120 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	83187	2013-01-11 at 16:14	98175	2013-01-11 at 16:14
NO3 (IC)	E 300.0	83187	2013-01-11 at 16:14	98175	2013-01-11 at 16:14
SO4 (IC)	E 300.0	83187	2013-01-11 at 16:14	98175	2013-01-11 at 16:14
TDS	SM 2540C	83108	2013-01-14 at 08:00	98090	2013-01-14 at 08:00
TKN	E 351.3	83384	2013-01-23 at 09:00	98407	2013-01-23 at 02:00

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 13011120 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: 318221 - 70-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 98175 Date Analyzed: 2013-01-11 Analyzed By: JR
 Prep Batch: 83187 Sample Preparation: 2013-01-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	613	613	<10.4	mg/L	50	10.4	2.5	0.209

Sample: 318221 - 70-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 98175 Date Analyzed: 2013-01-11 Analyzed By: JR
 Prep Batch: 83187 Sample Preparation: 2013-01-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	19.5	19.5	<0.0290	mg/L	5	0.0290	0.5	0.0058

Sample: 318221 - 70-04

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 98175 Date Analyzed: 2013-01-11 Analyzed By: JR
 Prep Batch: 83187 Sample Preparation: 2013-01-11 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	533	533	<3.44	mg/L	50	3.44	2.5	0.0689

Sample: 318221 - 70-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 98090 Date Analyzed: 2013-01-14 Analyzed By: DL
 Prep Batch: 83108 Sample Preparation: 2013-01-14 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	6200	6200	<5.00	mg/L	1	5.00	5	5

Sample: 318221 - 70-04

Laboratory: Lubbock

Analysis: TKN

QC Batch: 98407

Prep Batch: 83384

Analytical Method: E 351.3

Date Analyzed: 2013-01-23

Sample Preparation: 2013-01-23

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 98090
Prep Batch: 83108Date Analyzed: 2013-01-14
QC Preparation: 2013-01-14Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 98175
Prep Batch: 83187Date Analyzed: 2013-01-11
QC Preparation: 2013-01-11Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.209	mg/L	0.209

Method Blank (1)

QC Batch: 98175
Prep Batch: 83187Date Analyzed: 2013-01-11
QC Preparation: 2013-01-11Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.00580	mg/L	0.0058

Method Blank (1)

QC Batch: 98175
Prep Batch: 83187Date Analyzed: 2013-01-11
QC Preparation: 2013-01-11Analyzed By: JR
Prepared By: JR

Report Date: January 25, 2013

Work Order: 13011120
Mountain View Dairy

Page Number: 7 of 13
13090 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	0.790	mg/L	0.0689

Method Blank (1)

QC Batch: 98407
Prep Batch: 83384

Date Analyzed: 2013-01-23
QC Preparation: 2013-01-23

Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Duplicate (1) Duplicated Sample: 318221

QC Batch: 98090
Prep Batch: 83108

Date Analyzed: 2013-01-14
QC Preparation: 2013-01-14

Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	6300	6200	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 98090
Prep Batch: 83108Date Analyzed: 2013-01-14
QC Preparation: 2013-01-14Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	978	mg/L	1	1000	<5.00	98	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	975	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.

Matrix Spike (MS-1) Spiked Sample: 318221

QC Batch: 98175
Prep Batch: 83187Date Analyzed: 2013-01-11
QC Preparation: 2013-01-11Analyzed By: JR
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	613	103	90 - 110

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2040	mg/L	55.6	1390	613	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: 318221

QC Batch: 98175
Prep Batch: 83187Date Analyzed: 2013-01-11
QC Preparation: 2013-01-11Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	287	mg/L	55.6	278	19.5	96	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	286	mg/L	55.6	278	19.5	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: 318221

QC Batch: 98175
Prep Batch: 83187

Date Analyzed: 2013-01-11
QC Preparation: 2013-01-11

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Sulfate		1	1930	mg/L	55.6	1390	533	100	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1	1930	mg/L	55.6	1390	533	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: 318221

QC Batch: 98407
Prep Batch: 83384

Date Analyzed: 2013-01-23
QC Preparation: 2013-01-23

Analyzed By: AK
Prepared By: AK

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.72	87	45.3 - 107

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.72	92	45.3 - 107	6	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: 98175

Date Analyzed: 2013-01-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2013-01-11

Standard (CCV-1)

QC Batch: 98175

Date Analyzed: 2013-01-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2013-01-11

Standard (CCV-1)

QC Batch: 98175

Date Analyzed: 2013-01-11

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	24.8	99	90 - 110	2013-01-11

Standard (CCV-2)

QC Batch: 98175

Date Analyzed: 2013-01-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2013-01-11

Standard (CCV-2)

QC Batch: 98175

Date Analyzed: 2013-01-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2013-01-11

Standard (CCV-2)

QC Batch: 98175

Date Analyzed: 2013-01-11

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	24.8	99	90 - 110	2013-01-11

Standard (ICV-1)

QC Batch: 98407

Date Analyzed: 2013-01-23

Analyzed By: AK

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	2013-01-23

Standard (CCV-1)

QC Batch: 98407

Date Analyzed: 2013-01-23

Analyzed By: AK

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	2013-01-23

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.00	-
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.00	-
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.00	-
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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: D&H Petroleum & Environmental Services
Address: 1221 Tower Trail Ln El Paso, Texas 70097
Contact Person: Victor Ayala
Phone #: 915-859-8150
Fax #: 915-859-7229
E-mail: vayala@dh-enviro.com

Project #: PO # 237677
Project Name: Mountain View Dairy
Project Location: Mountain View Dairy, 13090 Stern Dr. Mesquite, NM
Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING DATE		
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH		ICE	NONE
70-01		1	250ml X					X						
70-01		1	250ml X							X				
70-02		1	250ml X					X						
70-02		1	250ml X					X						
70-03		1	250ml X					X						
70-03		1	250ml X					X						
70-04		1	250ml X					X						
70-04		1	250ml X					X						
70-Lagoon		1	250ml X					X						
70-Lagoon		1	250ml X					X						

Relinquished by: *[Signature]* Company: D&H Date: 1-11-13 15:10
Received by: *[Signature]* Company: *[Signature]* Date: 1-11-13 13:10
Relinquished by: *[Signature]* Company: *[Signature]* Date: 1-11-13 16:30
Received by: *[Signature]* Company: *[Signature]* Date: 1-11-13 10:10

INST 122
OBS 3
COR 3

INST 123
OBS 38
COR 34

LAB USE ONLY
 Intact Y / N
 Headspace Y / N / NA
 Log-in Review Y / N

REMARKS:
 TDS, SO₄, NO₃, Cl in EP
 Dry Weight Basis Required
 TRRP Report Required
 Check if Special Reporting Limits Are Needed

Carrier # *Ca 7 n 25 48130458*

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	
BTEX 8021B / 602 / 8260B / 624	
TPH 418.1 / TX1005 / DRO / TVHC	
PAH 8270C / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
G/MS Vol. 8260B / 624	
G/MS Semi. Vol. 8270C/625	
PCBs 8082 / 608	
Nitrate as Nitrogen EPA 300.0	X
Chloride EPA Method 300.0	X
Sulfate EPA Method 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Phosphorus SM 4500	
Turn Around Time If different from standard	



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Del Norte Dairy, LLC
 12560 Stern Drive
 P. O. Box 10
 Mesquite, NM, 88048

Report Date: February 20, 2013

Work Order: 13021228



DP: 126
 Project Location: Del Norte Dairy, 12560 Stern Dr., Mesquite, NM
 Project Name: Daybreak 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
320859	126-4	water	2013-02-12	11:14	2013-02-12
320860	126-5	water	2013-02-12	14:47	2013-02-12
320861	126-7	water	2013-02-12	11:58	2013-02-12
320862	126-9	water	2013-02-12	07:57	2013-02-12
320863	126-12	water	2013-02-12	14:13	2013-02-12
320864	126-13	water	2013-02-12	09:56	2013-02-12
320865	126 Lagoon	water	2013-02-12	12:47	2013-02-12

Notes

- **Work Order 13021228:** HNO3 added to 126 Lagoon sample for Phosphorus at the lab.

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

This report consists of a total of 27 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Daybreak Dairy were received by TraceAnalysis, Inc. on 2013-02-12 and assigned to work order 13021228. Samples for work order 13021228 were received damaged at a temperature of 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	83899	2013-02-13 at 19:43	99028	2013-02-13 at 19:43
Chloride (IC)	E 300.0	83902	2013-02-13 at 23:56	99033	2013-02-13 at 23:56
Chloride (IC)	E 300.0	83903	2013-02-14 at 04:08	99034	2013-02-14 at 04:08
NO3 (IC)	E 300.0	83899	2013-02-13 at 19:43	99028	2013-02-13 at 19:43
NO3 (IC)	E 300.0	83902	2013-02-13 at 23:56	99033	2013-02-13 at 23:56
NO3 (IC)	E 300.0	83903	2013-02-14 at 04:08	99034	2013-02-14 at 04:08
P, Total	S 6010C	83812	2013-02-14 at 10:19	98932	2013-02-14 at 10:56
TDS	SM 2540C	83885	2013-02-14 at 09:00	99009	2013-02-14 at 09:00
TKN	E 351.3	83849	2013-02-15 at 08:15	98970	2013-02-15 at 01:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13021228 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: 320859 - 126-4

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99028 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83899 Sample Preparation: 2013-02-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	614	614	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 320859 - 126-4

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99028 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83899 Sample Preparation: 2013-02-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	18.5	18.5	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 320859 - 126-4

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2640	2640	<5.00	mg/L	1	5.00	5	5

Sample: 320859 - 126-4

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83849 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 320860 - 126-5

Laboratory: El Paso

Analysis: Chloride (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 99028

Date Analyzed: 2013-02-13

Analyzed By: JR

Prep Batch: 83899

Sample Preparation: 2013-02-13

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	618	618	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 320860 - 126-5

Laboratory: El Paso

Analysis: NO3 (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 99028

Date Analyzed: 2013-02-13

Analyzed By: JR

Prep Batch: 83899

Sample Preparation: 2013-02-13

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	34.2	34.2	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 320860 - 126-5

Laboratory: El Paso

Analysis: TDS

Analytical Method: SM 2540C

Prep Method: N/A

QC Batch: 99009

Date Analyzed: 2013-02-14

Analyzed By: DL

Prep Batch: 83885

Sample Preparation: 2013-02-14

Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3180	3180	<5.00	mg/L	1	5.00	5	5

Sample: 320860 - 126-5

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83849 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 320861 - 126-7

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99028 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83899 Sample Preparation: 2013-02-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	648	648	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 320861 - 126-7

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99033 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83902 Sample Preparation: 2013-02-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	21.2	21.2	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 320861 - 126-7

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

continued . . .

sample 320861 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2740	2740	<5.00	mg/L	1	5.00	5	5

Sample: 320861 - 126-7

Laboratory: Lubbock

Analysis: TKN

QC Batch: 98970

Prep Batch: 83849

Analytical Method: E 351.3

Date Analyzed: 2013-02-15

Sample Preparation: 2013-02-15

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 320862 - 126-9

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99033

Prep Batch: 83902

Analytical Method: E 300.0

Date Analyzed: 2013-02-13

Sample Preparation: 2013-02-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	991	991	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 320862 - 126-9

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99033

Prep Batch: 83902

Analytical Method: E 300.0

Date Analyzed: 2013-02-13

Sample Preparation: 2013-02-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	2.50	2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 320862 - 126-9

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3090	3090	<5.00	mg/L	1	5.00	5	5

Sample: 320862 - 126-9

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83849 Sample Preparation: 2013-02-15 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 320863 - 126-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99033 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83902 Sample Preparation: 2013-02-13 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	421	421	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 320863 - 126-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99033 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83902 Sample Preparation: 2013-02-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	18.8	18.8	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 320863 - 126-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2480	2480	<5.00	mg/L	1	5.00	5	5

Sample: 320863 - 126-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83849 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 320864 - 126-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99033 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83902 Sample Preparation: 2013-02-13 Prepared By: JR

continued ...

sample 320864 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	735	735	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 320864 - 126-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99033 Date Analyzed: 2013-02-13 Analyzed By: JR
 Prep Batch: 83902 Sample Preparation: 2013-02-13 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	33.7	33.7	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 320864 - 126-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2840	2840	<5.00	mg/L	1	5.00	5	5

Sample: 320864 - 126-13

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83849 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 320865 - 126 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 83903 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1200	1200	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 320865 - 126 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 83903 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 320865 - 126 Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 98932 Date Analyzed: 2013-02-14 Analyzed By: RR
 Prep Batch: 83812 Sample Preparation: 2013-02-14 Prepared By: KV

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous		2	47.2	47.2	<0.481	mg/L	10	0.481	0.5	0.0481

Sample: 320865 - 126 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

continued . . .

sample 320865 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4760	4760	<5.00	mg/L	1	5.00	5	5

Sample: 320865 - 126 Lagoon

Laboratory: Lubbock
Analysis: TKN
QC Batch: 98970
Prep Batch: 83849

Analytical Method: E 351.3
Date Analyzed: 2013-02-15
Sample Preparation: 2013-02-15

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	308	308	<8.60	mg/L	5	8.60	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 98932
Prep Batch: 83812Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.0481	mg/L	0.0481

Method Blank (1)

QC Batch: 98970
Prep Batch: 83849Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99009
Prep Batch: 83885Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99028
Prep Batch: 83899Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99028
Prep Batch: 83899Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.159	mg/L	0.0491

Method Blank (1)QC Batch: 99033
Prep Batch: 83902Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99033
Prep Batch: 83902Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99034
Prep Batch: 83903Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99034
Prep Batch: 83903

Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321006

QC Batch: 99009
Prep Batch: 83885

Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14

Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	8800	8440	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 98932
Prep Batch: 83812Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: RR
Prepared By: KV

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Phosphorous		2	0.474	mg/L	1	0.500	<0.0481	95	85 - 115

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Phosphorous		2	0.448	mg/L	1	0.500	<0.0481	90	85 - 115	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: 99009
Prep Batch: 83885Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: DL
Prepared By: DL

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
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	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Dissolved Solids		1	993	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.

Matrix Spike (MS-1) Spiked Sample: 320945

QC Batch: 98932
Prep Batch: 83812Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: RR
Prepared By: KV

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Phosphorous		2	0.455	mg/L	1	0.500	<0.0481	91	75 - 125

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Phosphorous		2	0.448	mg/L	1	0.500	<0.0481	90	75 - 125	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: 321005

QC Batch: 98970
Prep Batch: 83849

Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15

Analyzed By: AK
Prepared By: AK

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	39.2	mg/L	1	50.0	<1.72	78	45.3 - 107

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	38.5	mg/L	1	50.0	<1.72	77	45.3 - 107	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: 320859

QC Batch: 99028
Prep Batch: 83899

Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	
			Result	Units						
Chloride		Qs	1	2150	mg/L	55.6	1390	614	110	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit	
			Result	Units								
Chloride		Qs	1	2150	mg/L	55.6	1390	614	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: 320859

QC Batch: 99028
Prep Batch: 83899

Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	305	mg/L	55.6	278	18.5	103	90 - 110

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	304	mg/L	55.6	278	18.5	103	90 - 110	0	20

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

Matrix Spike (MS-1) Spiked Sample: 320863

QC Batch: 99033
Prep Batch: 83902

Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13

Analyzed By: JR
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	421	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	1880	mg/L	55.6	1390	421	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: 320863

QC Batch: 99033
Prep Batch: 83902

Date Analyzed: 2013-02-13
QC Preparation: 2013-02-13

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	299	mg/L	55.6	278	18.8	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	299	mg/L	55.6	278	18.8	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: 321004

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2140	mg/L	55.6	1390	751	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	2140	mg/L	55.6	1390	751	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: 321004

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	55.6	278	24.7	100	90 - 110

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	302	mg/L	55.6	278	24.7	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: 98932

Date Analyzed: 2013-02-14

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.10	102	90 - 110	2013-02-14

Standard (CCV-1)

QC Batch: 98932

Date Analyzed: 2013-02-14

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.14	103	90 - 110	2013-02-14

Standard (ICV-1)

QC Batch: 98970

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (CCV-1)

QC Batch: 98970

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (CCV-1)

QC Batch: 99028 Date Analyzed: 2013-02-13 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-02-13

Standard (CCV-1)

QC Batch: 99028 Date Analyzed: 2013-02-13 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	4.91	98	90 - 110	2013-02-13

Standard (CCV-2)

QC Batch: 99028 Date Analyzed: 2013-02-13 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	2013-02-13

Standard (CCV-2)

QC Batch: 99028 Date Analyzed: 2013-02-13 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	2013-02-13

Standard (CCV-1)

QC Batch: 99033 Date Analyzed: 2013-02-13 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	2013-02-13

Standard (CCV-1)

QC Batch: 99033

Date Analyzed: 2013-02-13

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	2013-02-13

Standard (CCV-2)

QC Batch: 99033

Date Analyzed: 2013-02-13

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	2013-02-13

Standard (CCV-2)

QC Batch: 99033

Date Analyzed: 2013-02-13

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	4.79	96	90 - 110	2013-02-13

Standard (CCV-1)

QC Batch: 99034

Date Analyzed: 2013-02-14

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	24.4	98	90 - 110	2013-02-14

Standard (CCV-1)

QC Batch: 99034

Date Analyzed: 2013-02-14

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	4.79	96	90 - 110	2013-02-14

Standard (CCV-2)

QC Batch: 99034

Date Analyzed: 2013-02-14

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	24.3	97	90 - 110	2013-02-14

Standard (CCV-2)

QC Batch: 99034

Date Analyzed: 2013-02-14

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	4.81	96	90 - 110	2013-02-14

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

6707 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

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

LAB Order ID # 13021228

Invoice to (if different from above):

Del Norte Dairy, P.O. Box 10, Mesquite, NM 88048

Project Name: Linda Armstrong 575-233-3620

Project #:

407263

Project Location (including state):

Del Norte Dairy, 12560 Stern Drive, Mesquite, NM

Sampler Signature: *Ansel N. Rivera*

Daybreak Dairy

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
32089-1	126-4	1	250ml	X						X				2-12-13	11:14
↓-2	126-4	1	250ml	X						X				2-12-13	12:14
60-1	126-5	1	250ml	X						X				2-12-13	14:47
↓-2	126-5	1	250ml	X						X				2-12-13	14:47
61-1	126-7	1	250ml	X						X				2-12-13	11:58
↓-2	126-7	1	250ml	X						X				2-12-13	11:58
62-1	126-9	1	250ml	X						X				2-12-13	7:57
↓-2	126-9	1	250ml	X						X				2-12-13	7:57
63-1	126-12	1	250ml	X						X				2-12-13	14:13
↓-2	126-12	1	250ml	X						X				2-12-13	14:13
64-1	126-13	1	250ml	X						X				2-12-13	9:56
↓-2	126-13	1	250ml	X						X				2-12-13	9:56
65-1	126 Lagoon	1	250ml	X						X				2-12-13	12:47
↓-2	126 Lagoon	1	250ml	X						X				2-12-13	12:47
↓-2	126 Lagoon	1	250ml	X						X				2-12-13	12:47

Relinquished By:

Date: 2-12-13

Time: 15:23

Received By:

Date: 2-12-13

Time: 05:23

Lab Use Only

Intact

Headspace Y / N

Temp 112 FRI

Log-in Review 2/12/13

Relinquished By:

Date: 2/12/13

Time: 16:30

Received at Laboratory By: *Ansel N. Rivera*

Date: 2/13/13

Time: 9:05

Lab Use Only

Intact

Headspace Y / N

Temp 112 FRI

Log-in Review 2/12/13

Remarks:

NO₃, TDS, Cl = EP
HNO₃ added to Lagoon "p"
SAMPLE AT LAB
Dry Weight Basis Required
TRRP Report Required 25 48 130478



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.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: March 4, 2013

Work Order: 13021536



Project Location: 13600 Stern Drive, Mesquite, NM
 Project Name: Dominguez Dairy #2
 Project #: 42

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
321400	42-2	water	2013-02-15	11:50	2013-02-15
321401	42-3	water	2013-02-15	08:26	2013-02-15
321402	42-6	water	2013-02-15	12:46	2013-02-15
321403	42-8	water	2013-02-15	12:13	2013-02-15
321404	42-9	water	2013-02-15	09:48	2013-02-15
321405	42-10	water	2013-02-15	14:35	2013-02-15
321406	42-11	water	2013-02-15	13:36	2013-02-15
321407	42-12	water	2013-02-15	14:02	2013-02-15
321408	42-13	water	2013-02-15	10:43	2013-02-15
321409	42 Lagoon	water	2013-02-15	11:07	2013-02-15

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 33 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2013-02-15 and assigned to work order 13021536. Samples for work order 13021536 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	84147	2013-02-15 at 23:38	99332	2013-02-15 at 23:38
Chloride (IC)	E 300.0	84158	2013-02-16 at 03:51	99344	2013-02-16 at 03:51
Chloride (IC)	E 300.0	84188	2013-02-16 at 15:57	99386	2013-02-16 at 15:57
Chloride (IC)	E 300.0	84189	2013-02-16 at 20:02	99387	2013-02-16 at 20:02
NO3 (IC)	E 300.0	84147	2013-02-15 at 23:38	99332	2013-02-15 at 23:38
NO3 (IC)	E 300.0	84158	2013-02-16 at 03:51	99344	2013-02-16 at 03:51
NO3 (IC)	E 300.0	84188	2013-02-16 at 15:57	99386	2013-02-16 at 15:57
NO3 (IC)	E 300.0	84189	2013-02-16 at 20:02	99387	2013-02-16 at 20:02
TDS	SM 2540C	84007	2013-02-18 at 09:00	99169	2013-02-18 at 09:00
TDS	SM 2540C	84012	2013-02-20 at 08:00	99174	2013-02-20 at 08:00
TKN	E 351.3	83932	2013-02-19 at 08:20	99067	2013-02-19 at 11:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13021536 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: 321400 - 42-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84147 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	457	457	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321400 - 42-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84147 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	17.6	17.6	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321400 - 42-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2360	2360	<5.00	mg/L	1	5.00	5	5

Sample: 321400 - 42-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321401 - 42-3

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84147 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1140	1140	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321401 - 42-3

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84147 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	60.3	60.3	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 321401 - 42-3

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3800	3800	<5.00	mg/L	1	5.00	5	5

Sample: 321401 - 42-3

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321402 - 42-6

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99344 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84158 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	457	457	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321402 - 42-6

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99344 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84158 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	82.9	82.9	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 321402 - 42-6

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

continued . . .

sample 321402 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2430	2430	<5.00	mg/L	1	5.00	5	5

Sample: 321402 - 42-6

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99067

Prep Batch: 83932

Analytical Method: E 351.3

Date Analyzed: 2013-02-19

Sample Preparation: 2013-02-19

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321403 - 42-8

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99344

Prep Batch: 84158

Analytical Method: E 300.0

Date Analyzed: 2013-02-16

Sample Preparation: 2013-02-16

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	284	284	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 321403 - 42-8

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99344

Prep Batch: 84158

Analytical Method: E 300.0

Date Analyzed: 2013-02-16

Sample Preparation: 2013-02-16

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	31.8	31.8	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321403 - 42-8

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

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: 321403 - 42-8

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321404 - 42-9

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99344 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84158 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	653	653	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321404 - 42-9

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99344 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84158 Sample Preparation: 2013-02-16 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	47.0	47.0	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321404 - 42-9

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2870	2870	<5.00	mg/L	1	5.00	5	5

Sample: 321404 - 42-9

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321405 - 42-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84188 Sample Preparation: 2013-02-16 Prepared By: JR

continued ...

sample 321405 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	415	415	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 321405 - 42-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84188 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321405 - 42-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1380	1380	<5.00	mg/L	1	5.00	5	5

Sample: 321405 - 42-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321406 - 42-11

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84188 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	327	327	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 321406 - 42-11

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84188 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	1.64	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321406 - 42-11

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1210	1210	<5.00	mg/L	1	5.00	5	5

Sample: 321406 - 42-11

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

continued ...

sample 321406 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321407 - 42-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84188 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	332	332	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 321407 - 42-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84188 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	1.72	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321407 - 42-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1170	1170	<5.00	mg/L	1	5.00	5	5

Sample: 321407 - 42-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321408 - 42-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99387 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84189 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	855	855	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321408 - 42-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99387 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84189 Sample Preparation: 2013-02-16 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	54.3	54.3	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 321408 - 42-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3430	3430	<5.00	mg/L	1	5.00	5	5

Sample: 321408 - 42-13

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321409 - 42 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99387 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84189 Sample Preparation: 2013-02-16 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	829	829	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321409 - 42 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99387 Date Analyzed: 2013-02-16 Analyzed By: JR
 Prep Batch: 84189 Sample Preparation: 2013-02-16 Prepared By: JR

continued ...

sample 321409 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	2.01	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321409 - 42 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	6100	6100	<5.00	mg/L	1	5.00	5	5

Sample: 321409 - 42 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99067 Date Analyzed: 2013-02-19 Analyzed By: AK
 Prep Batch: 83932 Sample Preparation: 2013-02-19 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	410	410	<8.60	mg/L	5	8.60	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99067
Prep Batch: 83932Date Analyzed: 2013-02-19
QC Preparation: 2013-02-19Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99169
Prep Batch: 84007Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99174
Prep Batch: 84012Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99332
Prep Batch: 84147Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99332
Prep Batch: 84147Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99344
Prep Batch: 84158Date Analyzed: 2013-02-16
QC Preparation: 2013-02-16Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99344
Prep Batch: 84158Date Analyzed: 2013-02-16
QC Preparation: 2013-02-16Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99386
Prep Batch: 84188Date Analyzed: 2013-02-16
QC Preparation: 2013-02-16Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99386
Prep Batch: 84188Date Analyzed: 2013-02-16
QC Preparation: 2013-02-16Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99387
Prep Batch: 84189Date Analyzed: 2013-02-16
QC Preparation: 2013-02-16Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99387
Prep Batch: 84189Date Analyzed: 2013-02-16
QC Preparation: 2013-02-16Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321401QC Batch: 99169
Prep Batch: 84007Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: DL
Prepared By: DL

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13600 Stern Drive, Mesquite, NM

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3800	3800	mg/L	1	0	10

Duplicate (1) Duplicated Sample: 321670

QC Batch: 99174
Prep Batch: 84012

Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20

Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3940	3930	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99169
Prep Batch: 84007Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: DL
Prepared By: DL

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	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 99174
Prep Batch: 84012Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	975	mg/L	1	1000	<5.00	98	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	978	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.

Matrix Spike (MS-1) Spiked Sample: 321408

QC Batch: 99067
Prep Batch: 83932Date Analyzed: 2013-02-19
QC Preparation: 2013-02-19Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	38.5	mg/L	1	50.0	<1.72	77	45.3 - 107

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	37.1	mg/L	1	50.0	<1.72	74	45.3 - 107	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: 321400

QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84147 QC Preparation: 2013-02-15 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1900	mg/L	55.6	1390	457	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1920	mg/L	55.6	1390	457	105	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: 321400

QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84147 QC Preparation: 2013-02-15 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	295	mg/L	55.6	278	17.6	100	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	297	mg/L	55.6	278	17.6	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: 321403

QC Batch: 99344 Date Analyzed: 2013-02-16 Analyzed By: JR
Prep Batch: 84158 QC Preparation: 2013-02-16 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1690	mg/L	55.6	1390	284	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. Limit	RPD	RPD Limit	
Chloride		1	1680	mg/L	55.6	1390	284	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: 321403

QC Batch: 99344 Date Analyzed: 2013-02-16 Analyzed By: JR
Prep Batch: 84158 QC Preparation: 2013-02-16 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	31.8	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. Limit	RPD	RPD Limit	
Nitrate-N		1	302	mg/L	55.6	278	31.8	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: 321407

QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
Prep Batch: 84188 QC Preparation: 2013-02-16 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1720	mg/L	55.6	1390	332	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. Limit	RPD	RPD Limit	
Chloride		1	1720	mg/L	55.6	1390	332	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: 321407

QC Batch: 99386 Date Analyzed: 2013-02-16 Analyzed By: JR
Prep Batch: 84188 QC Preparation: 2013-02-16 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	<2.73	95	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	<2.73	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: 321408

QC Batch: 99387 Date Analyzed: 2013-02-16 Analyzed By: JR
Prep Batch: 84189 QC Preparation: 2013-02-16 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2360	mg/L	55.6	1390	855	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	2350	mg/L	55.6	1390	855	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: 321408

QC Batch: 99387 Date Analyzed: 2013-02-16 Analyzed By: JR
Prep Batch: 84189 QC Preparation: 2013-02-16 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	324	mg/L	55.6	278	54.3	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	326	mg/L	55.6	278	54.3	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: 99067

Date Analyzed: 2013-02-19

Analyzed By: AK

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	2013-02-19

Standard (CCV-1)

QC Batch: 99067

Date Analyzed: 2013-02-19

Analyzed By: AK

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	2013-02-19

Standard (CCV-1)

QC Batch: 99332

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-1)

QC Batch: 99332

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-2)

QC Batch: 99332 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-2)

QC Batch: 99332 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-1)

QC Batch: 99344 Date Analyzed: 2013-02-16 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	2013-02-16

Standard (CCV-1)

QC Batch: 99344 Date Analyzed: 2013-02-16 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	2013-02-16

Standard (CCV-2)

QC Batch: 99344 Date Analyzed: 2013-02-16 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	2013-02-16

Standard (CCV-2)

QC Batch: 99344

Date Analyzed: 2013-02-16

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	2013-02-16

Standard (CCV-1)

QC Batch: 99386

Date Analyzed: 2013-02-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-02-16

Standard (CCV-1)

QC Batch: 99386

Date Analyzed: 2013-02-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2013-02-16

Standard (CCV-2)

QC Batch: 99386

Date Analyzed: 2013-02-16

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	2013-02-16

Standard (CCV-2)

QC Batch: 99386

Date Analyzed: 2013-02-16

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	2013-02-16

Standard (CCV-1)

QC Batch: 99387

Date Analyzed: 2013-02-16

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	2013-02-16

Standard (CCV-1)

QC Batch: 99387

Date Analyzed: 2013-02-16

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	2013-02-16

Standard (CCV-2)

QC Batch: 99387

Date Analyzed: 2013-02-16

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	2013-02-16

Standard (CCV-2)

QC Batch: 99387

Date Analyzed: 2013-02-16

Analyzed By: JR

Report Date: March 4, 2013

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13600 Stern Drive, Mesquite, NM

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	2013-02-16

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Company Name: D&H Petroleum & Environmental Services
 Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
 Contact Person: Victor Ayala
 Phone #: 915-859-8150 Cell #:
 Fax #:
 E-mail: vayala@dhpump.com
 Invoice to (if different from above): Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048
 Project #: 407266
 Project Name: Dominguez Dairy #2
 Sampler Signature: *Angel H.R.*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
321400-1	42-2	1	250ml	X				X						2-15-13	11:50
321400-2	42-2	1	250ml	X				X						2-15-13	11:50
321401-1	42-3	1	250ml	X				X						2-15-13	8:26
321401-2	42-3	1	250ml	X				X						2-15-13	8:26
321402-1	42-6	1	250ml	X				X						2-15-13	12:46
321402-2	42-6	1	250ml	X				X						2-15-13	12:46
321402-3	42-7	1	250ml	X				X							
321403-1	42-8	1	250ml	X				X						2-15-13	12:13
321403-2	42-8	1	250ml	X				X						2-15-13	12:13
321404-1	42-9	1	250ml	X				X						2-15-13	9:48
321404-2	42-9	1	250ml	X				X						2-15-13	9:48
321405-1	42-10	1	250ml	X				X						2-15-13	14:35
321405-2	42-10	1	250ml	X				X						2-15-13	14:35
321406-1	42-11	1	250ml	X				X						2-15-13	13:36
321406-2	42-11	1	250ml	X				X						2-15-13	13:36

Relinquished By: *Angel H.R.* Date: 2-15-13 Time: 15:07
 Received By: *[Signature]* Date: 2/15/13 Time: 15:07
 Relinquished By: *[Signature]* Date: 2/15/13 Time: 16:30
 Received At Laboratory By: *Patel P.H. TA* Date: 2/15/13 Time: 10:18
 Lab Use Only
 Intact Y N
 Headspace Y N
 Temp Y N
 Log-in Review Y N
 Remarks: carry in
 All analysis in Bldg 50
 TRN in Labord
 Dry Weight Basis Required
 TRRP Report Required
 CC 9

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

TraceAnalysis, Inc.

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

Page 2 of 2
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: _____

Phone #: 915-859-8150

Cell #: _____

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person: _____

E-mail: vayala@dhpump.com

Victor Ayala

Invoice to (if different from above): _____

Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

Isaac Dominguez 575-649-7040

Project #:

407266

Project Name:

Dominguez Dairy #2

Project Location (including state): _____

Sampler Signature:

David R.R.

Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
321407-1	42-12	1	250ml	X				X		X			2-15-13	14:02
321407-2	42-12	1	250ml	X				X		X			2-15-13	14:02
321408-1	42-13	1	250ml	X				X		X			2-15-13	10:43
321408-2	42-13	1	250ml	X				X		X			2-15-13	10:43
321409-1	42 Lagoon	1	250ml	X				X		X			2-15-13	11:07
321409-2	42 Lagoon	1	250ml	X				X		X			2-15-13	11:07

Reinquired By: _____ Date: 2-15-13 6:30
 Received By: *[Signature]* Date: 2/15/13 15:07
 Relinquished By: *[Signature]* Date: 2-15-13 16:30
 Received at Laboratory By: *Patel P.H. TA* Date: 2/16/13 10:18
 Time: 6:30
 Time: 15:07
 Time: 16:30
 Time: 10:18

Lab Use Only
 Intact Y N
 Headspace Y N
 Temp *12* *92*
 Log-in Review *[Signature]*

Remarks: *Carry in*
TA in Lab back
ML in EL

Dry Weight Basis Required
 TRRP Report Required

6

ANALYSIS REQUEST

Method	Result
MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.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: March 7, 2013

Work Order: 13022027



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
321734	167-01A	water	2013-02-20	12:20	2013-02-20
321735	167-04	water	2013-02-20	14:17	2013-02-20
321736	167-06	water	2013-02-20	11:05	2013-02-20
321737	167-07	water	2013-02-20	11:38	2013-02-20
321738	167 Lagoon	water	2013-02-20	13:37	2013-02-20

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

This report consists of a total of 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2013-02-20 and assigned to work order 13022027. Samples for work order 13022027 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	84240	2013-02-21 at 05:23	99445	2013-02-21 at 05:23
Chloride (IC)	E 300.0	84241	2013-02-21 at 19:26	99446	2013-02-21 at 19:26
NO3 (IC)	E 300.0	84240	2013-02-21 at 05:23	99445	2013-02-21 at 05:23
NO3 (IC)	E 300.0	84241	2013-02-21 at 19:26	99446	2013-02-21 at 19:26
NO3 (IC)	E 300.0	84242	2013-02-21 at 23:47	99447	2013-02-21 at 23:47
TDS	SM 2540C	84056	2013-02-22 at 07:00	99224	2013-02-22 at 07:00
TDS	SM 2540C	84058	2013-02-22 at 07:00	99226	2013-02-22 at 07:00
TKN	SM 4500-NH3 B,C	84076	2013-02-25 at 07:45	99246	2013-02-25 at 11:15

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 13022027 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: 321734 - 167-01A

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84240 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	845	845	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321734 - 167-01A

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84240 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	1.10	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321734 - 167-01A

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3360	3360	<5.00	mg/L	1	5.00	5	5

Sample: 321734 - 167-01A

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99246 Date Analyzed: 2013-02-25 Analyzed By: AK
 Prep Batch: 84076 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321735 - 167-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99446 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84241 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1320	1320	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321735 - 167-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99446 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84241 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	21.9	21.9	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321735 - 167-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	4660	4660	<5.00	mg/L	1	5.00	5	5

Sample: 321735 - 167-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99246 Date Analyzed: 2013-02-25 Analyzed By: AK
 Prep Batch: 84076 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321736 - 167-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99446 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84241 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride		1	725	725	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321736 - 167-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99446 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84241 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1	22.8	22.8	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321736 - 167-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

continued . . .

sample 321736 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2660	2660	<5.00	mg/L	1	5.00	5	5

Sample: 321736 - 167-06

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99246

Prep Batch: 84076

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-02-25

Sample Preparation: 2013-02-25

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321737 - 167-07

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99446

Prep Batch: 84241

Analytical Method: E 300.0

Date Analyzed: 2013-02-21

Sample Preparation: 2013-02-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	446	446	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321737 - 167-07

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99446

Prep Batch: 84241

Analytical Method: E 300.0

Date Analyzed: 2013-02-21

Sample Preparation: 2013-02-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321737 - 167-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3640	3640	<5.00	mg/L	1	5.00	5	5

Sample: 321737 - 167-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99246 Date Analyzed: 2013-02-25 Analyzed By: AK
 Prep Batch: 84076 Sample Preparation: 2013-02-25 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321738 - 167 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99446 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84241 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	525	525	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321738 - 167 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99447 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84242 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321738 - 167 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2840	2840	<5.00	mg/L	1	5.00	5	5

Sample: 321738 - 167 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99246 Date Analyzed: 2013-02-25 Analyzed By: AK
 Prep Batch: 84076 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	140	140	<6.88	mg/L	4	6.88	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99226
Prep Batch: 84058Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99246
Prep Batch: 84076Date Analyzed: 2013-02-25
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99445
Prep Batch: 84240Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21Analyzed By: JR
Prepared By: JR

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	999	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 99226
Prep Batch: 84058Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 321737

QC Batch: 99246
Prep Batch: 84076Date Analyzed: 2013-02-25
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.72	92	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	<1.72	97	10 - 151	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: 321733

QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
Prep Batch: 84240 QC Preparation: 2013-02-21 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		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.

Matrix Spike (MS-1) Spiked Sample: 321733

QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
Prep Batch: 84240 QC Preparation: 2013-02-21 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	306	mg/L	55.6	278	17.8	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	306	mg/L	55.6	278	17.8	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: 321737

QC Batch: 99446 Date Analyzed: 2013-02-21 Analyzed By: JR
Prep Batch: 84241 QC Preparation: 2013-02-21 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	446	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	1870	mg/L	55.6	1390	446	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: 321737

QC Batch: 99446
Prep Batch: 84241

Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	269	mg/L	55.6	278	<2.73	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	273	mg/L	55.6	278	<2.73	98	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: 321827

QC Batch: 99447
Prep Batch: 84242

Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21

Analyzed By: JR
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	10.3	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	280	mg/L	55.6	278	10.3	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: 99246

Date Analyzed: 2013-02-25

Analyzed By: AK

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	2013-02-25

Standard (CCV-1)

QC Batch: 99246

Date Analyzed: 2013-02-25

Analyzed By: AK

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	2013-02-25

Standard (CCV-1)

QC Batch: 99445

Date Analyzed: 2013-02-21

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	24.6	98	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99445

Date Analyzed: 2013-02-21

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	4.84	97	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99445 Date Analyzed: 2013-02-21 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	24.6	98	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99445 Date Analyzed: 2013-02-21 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	4.88	98	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99446 Date Analyzed: 2013-02-21 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	23.4	94	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99446 Date Analyzed: 2013-02-21 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	4.98	100	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99446 Date Analyzed: 2013-02-21 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	25.0	100	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99446

Date Analyzed: 2013-02-21

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	4.94	99	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99447

Date Analyzed: 2013-02-21

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	4.94	99	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99447

Date Analyzed: 2013-02-21

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	4.91	98	90 - 110	2013-02-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 13022027

Company Name: D&H Petroleum & Environmental Services
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Contact Person: Victor Ayala
Phone #: 915-859-8150
Cell #:
Fax #:
E-mail: vajala@dhpump.com

Project #: 407270
Project Name: Bruce Bonestroo 575-233-2061
Sampler Signature: *Carol N.R.*

Project Location (including state): River Valley Dairy, PO Box 1929, Anthony, NM 88021
Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		Turn Around Time		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		DATE	TIME
167-01		1		X				X				X				
167-01		1		X				X				X				
167-01A		1	250mL	X				X				X			2-20-13	12:20
167-01A		1	250mL	X				X				X			2-20-13	12:20
167-02		1		X				X				X				
167-02		1		X				X				X				
167-03		1		X				X				X				
167-03		1		X				X				X				
167-04		1	250mL	X				X				X			2-20-13	14:17
167-04		1	250mL	X				X				X			2-20-13	14:17
167-05		1		X				X				X				
167-05		1		X				X				X				
167-06		1	250mL	X				X				X			2-20-13	11:05
167-06		1	250mL	X				X				X			2-20-13	11:05
167-07		1	250mL	X				X				X			2-20-13	11:38
167-07		1	250mL	X				X				X			2-20-13	11:38

ANALYSIS REQUEST

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

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1 / TX1005

Lab Use Only

Intact DI N

Headspace Y N

Temp 02-FLR

Log-in Review 2013

Relinquished By: Carol N.R. Date: 2-20-13 Time: 15:05

Received By: [Signature] Date: 2/20/13 Time: 15:05

Relinquished By: Carol N.R. Date: 2-20-13 Time: 16:30

Received By: [Signature] Date: 2/20/13 Time: 16:30

Remarks: LS: 48130484 ICE
all analysis in 0
TKN in Lab back

Dry Weight Basis Required

TRRP Report Required

TraceAnalysis, Inc.

D&H Petroleum & Environmental Services
Address: (Street, City, Zip)
1221 Tower Trail Ln, El Paso TX 79907
Contact Person: Victor Ayala
Phone #: 915-859-8150
Cell #: 915-859-8150
Fax #: 915-859-8150
E-mail: vajala@dhpump.com

Project #: **407270**
Project Name: Bruce Bonestroo 575-233-2061
River Valley Dairy, LLC
Sampler Signature: *[Signature]*
Project Location (including state):
River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE
167-08		1		X				X						
167-08		1		X				X						
167-09		1		X				X						
167-00		1		X				X						
167 Lagoon		1	250ml	X				X				2-20-13	13:37	
167 Lagoon		1	250ml	X				X				2-20-13	13:37	

Relinquished By: *[Signature]* Date: 2-20-13 Time: 15:05
 Received By: *[Signature]* Date: 2/20/13 Time: 15:05

Relinquished By: *[Signature]* Date: 2-20-13 Time: 16:30
 Received By: *[Signature]* Date: 2/21/13 Time: 10:05

Lab Use Only
 Intact Y/N: **Y**
 Headspace Y/N: **N**
 Temp of 2 Pcs: **10**
 Log-in Review: **OK**

Remarks: **KE**
15:48/3048 all analysis into
3.3 TKN in Lubback
 Dry Weight Basis Required
 TRRP Report Required

ANALYSIS REQUEST	Turn Around Time
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 NORGC	
Chloride EPA 300	
Total Dissolved Solids SM 2540 C MOD	



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: March 7, 2013

Work Order: 13021923



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
321673	74-1	water	2013-02-19	13:38	2013-02-19
321674	74-2	water	2013-02-19	12:19	2013-02-19
321675	74-3	water	2013-02-19	10:47	2013-02-19
321676	74 Lagoon	water	2013-02-19	14:18	2013-02-19

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2013-02-19 and assigned to work order 13021923. Samples for work order 13021923 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	84238	2013-02-20 at 21:12	99443	2013-02-20 at 21:12
Chloride (IC)	E 300.0	84239	2013-02-21 at 01:17	99444	2013-02-21 at 01:17
NO3 (IC)	E 300.0	84238	2013-02-20 at 21:12	99443	2013-02-20 at 21:12
NO3 (IC)	E 300.0	84239	2013-02-21 at 01:17	99444	2013-02-21 at 01:17
TDS	SM 2540C	84056	2013-02-22 at 07:00	99224	2013-02-22 at 07:00
TKN	SM 4500-NH3 B,C	84075	2013-02-25 at 07:45	99245	2013-02-26 at 10:45
TKN	SM 4500-NH3 B,C	84076	2013-02-25 at 07:45	99246	2013-02-25 at 11:15

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 13021923 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: 321673 - 74-1

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
 Prep Batch: 84238 Sample Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	840	840	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321673 - 74-1

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
 Prep Batch: 84238 Sample Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	59.1	59.1	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 321673 - 74-1

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3140	3140	<5.00	mg/L	1	5.00	5	5

Sample: 321673 - 74-1

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99245 Date Analyzed: 2013-02-26 Analyzed By: AK
 Prep Batch: 84075 Sample Preparation: 2013-02-25 Prepared By: AK

Report Date: March 7, 2013

Work Order: 13021923
Buena Vista Dairy #2

Page Number: 6 of 20
16910 Stern Drive, Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321674 - 74-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99444 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84239 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	525	525	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321674 - 74-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99444 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84239 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	13.9	13.9	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321674 - 74-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1900	1900	<5.00	mg/L	1	5.00	5	5

Sample: 321674 - 74-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99245 Date Analyzed: 2013-02-26 Analyzed By: AK
 Prep Batch: 84075 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321675 - 74-3

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99444 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84239 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1250	1250	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321675 - 74-3

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99444 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84239 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	2.81	2.81	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321675 - 74-3

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

continued . . .

sample 321675 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4480	4480	<5.00	mg/L	1	5.00	5	5

Sample: 321675 - 74-3

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99245

Prep Batch: 84075

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-02-26

Sample Preparation: 2013-02-25

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321676 - 74 Lagoon

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99444

Prep Batch: 84239

Analytical Method: E 300.0

Date Analyzed: 2013-02-21

Sample Preparation: 2013-02-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	473	473	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321676 - 74 Lagoon

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99444

Prep Batch: 84239

Analytical Method: E 300.0

Date Analyzed: 2013-02-21

Sample Preparation: 2013-02-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321676 - 74 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3020	3020	<5.00	mg/L	1	5.00	5	5

Sample: 321676 - 74 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99246 Date Analyzed: 2013-02-25 Analyzed By: AK
 Prep Batch: 84076 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	154	154	<6.88	mg/L	4	6.88	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99245
Prep Batch: 84075Date Analyzed: 2013-02-26
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99246
Prep Batch: 84076Date Analyzed: 2013-02-25
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99443
Prep Batch: 84238Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.36	mg/L	0.0508

Method Blank (1)

QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
Prep Batch: 84238 QC Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.149	mg/L	0.0491

Method Blank (1)

QC Batch: 99444 Date Analyzed: 2013-02-21 Analyzed By: JR
Prep Batch: 84239 QC Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99444 Date Analyzed: 2013-02-21 Analyzed By: JR
Prep Batch: 84239 QC Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321675

QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
Prep Batch: 84056 QC Preparation: 2013-02-22 Prepared By: DL

Report Date: March 7, 2013

Work Order: 13021923
Buena Vista Dairy #2

Page Number: 12 of 20
16910 Stern Drive, Mesquite, NM

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4540	4480	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	999	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 321674

QC Batch: 99245
Prep Batch: 84075Date Analyzed: 2013-02-26
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	42.0	mg/L	1	50.0	<1.72	84	10 - 151	5	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: 321737

QC Batch: 99246
Prep Batch: 84076Date Analyzed: 2013-02-25
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.72	92	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	<1.72	97	10 - 151	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: 321673

QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
Prep Batch: 84238 QC Preparation: 2013-02-20 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2360	mg/L	55.6	1390	840	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2360	mg/L	55.6	1390	840	109	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: 321673

QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
Prep Batch: 84238 QC Preparation: 2013-02-20 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	337	mg/L	55.6	278	59.1	100	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	338	mg/L	55.6	278	59.1	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: 321674

QC Batch: 99444 Date Analyzed: 2013-02-21 Analyzed By: JR
Prep Batch: 84239 QC Preparation: 2013-02-21 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1990	mg/L	55.6	1390	525	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	1990	mg/L	55.6	1390	525	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: 321674

QC Batch: 99444
Prep Batch: 84239

Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	289	mg/L	55.6	278	13.9	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	289	mg/L	55.6	278	13.9	99	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: 99245

Date Analyzed: 2013-02-26

Analyzed By: AK

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	2013-02-26

Standard (CCV-1)

QC Batch: 99245

Date Analyzed: 2013-02-26

Analyzed By: AK

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	2013-02-26

Standard (ICV-1)

QC Batch: 99246

Date Analyzed: 2013-02-25

Analyzed By: AK

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	2013-02-25

Standard (CCV-1)

QC Batch: 99246

Date Analyzed: 2013-02-25

Analyzed By: AK

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	2013-02-25

Standard (CCV-1)

QC Batch: 99443

Date Analyzed: 2013-02-20

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	2013-02-20

Standard (CCV-1)

QC Batch: 99443

Date Analyzed: 2013-02-20

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	4.95	99	90 - 110	2013-02-20

Standard (CCV-2)

QC Batch: 99443

Date Analyzed: 2013-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-02-20

Standard (CCV-2)

QC Batch: 99443

Date Analyzed: 2013-02-20

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	4.91	98	90 - 110	2013-02-20

Standard (CCV-1)

QC Batch: 99444

Date Analyzed: 2013-02-21

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	24.8	99	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99444

Date Analyzed: 2013-02-21

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	4.91	98	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99444

Date Analyzed: 2013-02-21

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	24.6	98	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99444

Date Analyzed: 2013-02-21

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	4.84	97	90 - 110	2013-02-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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

13021923 TraceAnalysis, Inc.
 155 McCutcheon, Ste. H El Paso, TX 79932
 Tel (915) 585-3443
 Fax (915) 585-4944

Company Name: **13021923**
 D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln., El Paso, Texas 79907
 Contact Person: **vayala@dhpump.com**
 Victor Ayala

Phone #: 915-859-8150
 Cell #:
 Fax #:
 E-mail:
 Project Name: **Fernie 575-233-4646**
 Buena Vista Dairy #2

Project Location (including state):
 Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM
 Project Signature: *David P. P...*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				Sampling		Turn Around Time	Hold	
				WATER	AIR	SOIL	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE			DATE
321673-1	74-1	1	250ml	X				X				2-19-13	13:38		
L-2	74-1	4	250ml	X				X				2-19-13	13:38		
321674-1	74-2	1	250ml	X				X				2-19-13	12:19		
L-2	74-2	4	250ml	X				X				2-19-13	12:19		
321675-1	74-3	1	250ml	X				X				2-19-13	10:47		
L-2	74-3	4	250ml	X				X				2-19-13	10:47		
74-4		1		X				X							
74-4		4		X				X							
74-5		1		X				X							
74-5		4		X				X							
321676-1	74 Lagoon	1	250ml	X				X				2-19-13	14:18		
L-2	74 Lagoon	4	250ml	X				X				2-19-13	14:18		

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
Total Kjeldahl Nitrogen SM 4500 NORRG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X

LAB Order ID # **13021923**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page **1** of **1**

Remarks: *KE LS. Carry in 48/30485*

Lab Use Only: Intact N * 2/20

Headspaces: Y N

Temp: **30.0**

Log-in Review: *7-17-02*

Dry Weight Basis Required

TRRP Report Required

Relinquished By: *David P. P...* Date: **2-19-13** Time: **15:10**

Received By: *Denny de Haan* Date: **2-19-13** Time: **15:30**

Relinquished By: *Denny de Haan* Date: **2-19-13** Time: **16:30**

Received at Laboratory By: *[Signature]* Date: **2/20/13** Time: **9:20**



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.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: March 7, 2013

Work Order: 13021922



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
321670	177-01	water	2013-02-19	08:06	2013-02-19
321671	177-02	water	2013-02-19	08:55	2013-02-19
321672	177-07R	water	2013-02-19	10:10	2013-02-19

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 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2013-02-19 and assigned to work order 13021922. Samples for work order 13021922 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	84235	2013-02-19 at 21:45	99440	2013-02-19 at 21:45
Chloride (IC)	E 300.0	84238	2013-02-20 at 21:12	99443	2013-02-20 at 21:12
NO3 (IC)	E 300.0	84235	2013-02-19 at 21:45	99440	2013-02-19 at 21:45
NO3 (IC)	E 300.0	84238	2013-02-20 at 21:12	99443	2013-02-20 at 21:12
TDS	SM 2540C	84012	2013-02-20 at 08:00	99174	2013-02-20 at 08:00
TDS	SM 2540C	84056	2013-02-22 at 07:00	99224	2013-02-22 at 07:00
TKN	SM 4500-NH3 B,C	84075	2013-02-25 at 07:45	99245	2013-02-26 at 10:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13021922 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: 321670 - 177-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84235 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1310	1310	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321670 - 177-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84235 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	28.4	28.4	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321670 - 177-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3930	3930	<5.00	mg/L	1	5.00	5	5

Sample: 321670 - 177-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99245 Date Analyzed: 2013-02-26 Analyzed By: AK
 Prep Batch: 84075 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321671 - 177-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
 Prep Batch: 84238 Sample Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	902	902	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321671 - 177-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
 Prep Batch: 84238 Sample Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	29.3	29.3	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321671 - 177-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3100	3100	<5.00	mg/L	1	5.00	5	5

Sample: 321671 - 177-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99245 Date Analyzed: 2013-02-26 Analyzed By: AK
 Prep Batch: 84075 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321672 - 177-07R

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
 Prep Batch: 84238 Sample Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	976	976	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321672 - 177-07R

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
 Prep Batch: 84238 Sample Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	31.0	31.0	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321672 - 177-07R

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

continued . . .

sample 321672 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3360	3360	<5.00	mg/L	1	5.00	5	5

Sample: 321672 - 177-07R

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99245

Prep Batch: 84075

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-02-26

Sample Preparation: 2013-02-25

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99174
Prep Batch: 84012Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99245
Prep Batch: 84075Date Analyzed: 2013-02-26
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99440
Prep Batch: 84235Date Analyzed: 2013-02-19
QC Preparation: 2013-02-19Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
Prep Batch: 84235 QC Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
Prep Batch: 84238 QC Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.36	mg/L	0.0508

Method Blank (1)

QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
Prep Batch: 84238 QC Preparation: 2013-02-20 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.149	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321670

QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
Prep Batch: 84012 QC Preparation: 2013-02-20 Prepared By: DL

Report Date: March 7, 2013

Work Order: 13021922
Gonzalez Dairy Inc.

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3940	3930	mg/L	1	0	10

Duplicate (1) Duplicated Sample: 321675

QC Batch: 99224
Prep Batch: 84056

Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22

Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4540	4480	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99174
Prep Batch: 84012Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	975	mg/L	1	1000	<5.00	98	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	978	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: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	999	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 321674

QC Batch: 99245
Prep Batch: 84075Date Analyzed: 2013-02-26
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	42.0	mg/L	1	50.0	<1.72	84	10 - 151	5	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: 321628

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
Prep Batch: 84235 QC Preparation: 2013-02-19 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2480	mg/L	55.6	1390	963	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2480	mg/L	55.6	1390	963	109	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: 321628

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
Prep Batch: 84235 QC Preparation: 2013-02-19 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	286	mg/L	55.6	278	17.4	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	290	mg/L	55.6	278	17.4	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: 321673

QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR
Prep Batch: 84238 QC Preparation: 2013-02-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2360	mg/L	55.6	1390	840	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
Chloride		1	2360	mg/L	55.6	1390	840	109	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: 321673

QC Batch: 99443
Prep Batch: 84238

Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	337	mg/L	55.6	278	59.1	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	338	mg/L	55.6	278	59.1	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: 99245

Date Analyzed: 2013-02-26

Analyzed By: AK

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	2013-02-26

Standard (CCV-1)

QC Batch: 99245

Date Analyzed: 2013-02-26

Analyzed By: AK

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	2013-02-26

Standard (CCV-1)

QC Batch: 99440

Date Analyzed: 2013-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-02-19

Standard (CCV-1)

QC Batch: 99440

Date Analyzed: 2013-02-19

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	4.91	98	90 - 110	2013-02-19

Standard (CCV-2)

QC Batch: 99440 Date Analyzed: 2013-02-19 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	2013-02-19

Standard (CCV-2)

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2013-02-19

Standard (CCV-1)

QC Batch: 99443 Date Analyzed: 2013-02-20 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	2013-02-20

Standard (CCV-1)

QC Batch: 99443 Date Analyzed: 2013-02-20 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	4.95	99	90 - 110	2013-02-20

Standard (CCV-2)

QC Batch: 99443 Date Analyzed: 2013-02-20 Analyzed By: JR

Report Date: March 7, 2013

Work Order: 13021922
Gonzalez Dairy Inc.

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-02-20

Standard (CCV-2)

QC Batch: 99443

Date Analyzed: 2013-02-20

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	4.91	98	90 - 110	2013-02-20

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Company Name: D&H Petroleum & Environmental Services
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
Contact Person: Victor Ayala
Phone #: 915-859-8150
Cell #:
Fax #:
E-mail: vajala@dhpump.com

Project #: 407268
Project Name: Joe Gonzalez 575-233-4801
Project Location (including state): Gonzalez Dairy, PO Box 199, Mesquite, NM 88048
Sampler Signature: *Carol N. Rivera*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		Turn Around Time		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		DATE	TIME
	177 Lagoon 1	1		X				X				X				
	177 Lagoon 1	1		X				X				X				
	177 Lagoon 1	1		X				X				X				
	177 Lagoon 2	1		X				X				X				
	177 Lagoon 2	1		X				X				X				
	177 Lagoon 2	1		X				X				X				
	177 Lagoon 3	1		X				X				X				
	177 Lagoon 3	1		X				X				X				
	177 Lagoon 3	1		X				X				X				
	321670-1	1	250ml	X				X				X			2-19-13	8:06
	1-2 177-01	1	250ml	X				X				X			2-19-13	8:06
	321671-1	1	250ml	X				X				X			2-19-13	8:55
	1-2 177-02	1	250ml	X				X				X			2-19-13	8:55
	321672-1	1	250ml	X				X				X			2-19-13	10:10
	1-2 177-07R	1	250ml	X				X				X			2-19-13	10:10

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X
Phosphorus SM 4500	X

LAB USE ONLY	Received By:	Date:	Time:	Relinquished By:	Date:	Time:
	Danny de Han	2-19-13	15:10	Carol N. Rivera	2-19-13	16:30
	Danny de Han	2-19-13	16:30	Danny de Han	2-19-13	16:30

Lab Use Only

Intad Y / N

Headspace Y / N

Temp 30C

Log-in Review Y

Remarks: *Cumy In 1LE*

Dry Weight Basis Required

TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.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: March 7, 2013

Work Order: 13021833



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
321625	177-03A	water	2013-02-18	13:31	2013-02-18
321626	177-04	water	2013-02-18	12:19	2013-02-18
321627	177-05	water	2013-02-18	11:18	2013-02-18
321628	177-06	water	2013-02-18	10:23	2013-02-18

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2013-02-18 and assigned to work order 13021833. Samples for work order 13021833 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	84234	2013-02-19 at 17:39	99439	2013-02-19 at 17:39
Chloride (IC)	E 300.0	84235	2013-02-19 at 21:45	99440	2013-02-19 at 21:45
NO3 (IC)	E 300.0	84234	2013-02-19 at 17:39	99439	2013-02-19 at 17:39
NO3 (IC)	E 300.0	84235	2013-02-19 at 21:45	99440	2013-02-19 at 21:45
TDS	SM 2540C	84012	2013-02-20 at 08:00	99174	2013-02-20 at 08:00
TKN	SM 4500-NH3 B,C	84075	2013-02-25 at 07:45	99245	2013-02-26 at 10:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13021833 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: 321625 - 177-03A

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99439 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84234 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1	1290	1290	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321625 - 177-03A

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99439 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84234 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	15.5	15.5	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321625 - 177-03A

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3900	3900	<5.00	mg/L	1	5.00	5	5

Sample: 321625 - 177-03A

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99245 Date Analyzed: 2013-02-26 Analyzed By: AK
 Prep Batch: 84075 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321626 - 177-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99439 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84234 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	qs	1	1120	1120	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321626 - 177-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99439 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84234 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	20.5	20.5	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321626 - 177-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3450	3450	<5.00	mg/L	1	5.00	5	5

Sample: 321626 - 177-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99245 Date Analyzed: 2013-02-26 Analyzed By: AK
 Prep Batch: 84075 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321627 - 177-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99439 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84234 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride	Qs	1	1430	1430	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321627 - 177-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99439 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84234 Sample Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1	32.6	32.6	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321627 - 177-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

continued . . .

sample 321627 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3900	3900	<5.00	mg/L	1	5.00	5	5

Sample: 321627 - 177-05

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99245

Prep Batch: 84075

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-02-26

Sample Preparation: 2013-02-25

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321628 - 177-06

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99440

Prep Batch: 84235

Analytical Method: E 300.0

Date Analyzed: 2013-02-19

Sample Preparation: 2013-02-19

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	963	963	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321628 - 177-06

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99440

Prep Batch: 84235

Analytical Method: E 300.0

Date Analyzed: 2013-02-19

Sample Preparation: 2013-02-19

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	17.4	17.4	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321628 - 177-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 Sample Preparation: 2013-02-20 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3000	3000	<5.00	mg/L	1	5.00	5	5

Sample: 321628 - 177-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99245 Date Analyzed: 2013-02-26 Analyzed By: AK
 Prep Batch: 84075 Sample Preparation: 2013-02-25 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99174
Prep Batch: 84012Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99245
Prep Batch: 84075Date Analyzed: 2013-02-26
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99439
Prep Batch: 84234Date Analyzed: 2013-02-19
QC Preparation: 2013-02-19Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99439
Prep Batch: 84234Date Analyzed: 2013-02-19
QC Preparation: 2013-02-19Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84235 QC Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
 Prep Batch: 84235 QC Preparation: 2013-02-19 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321670

QC Batch: 99174 Date Analyzed: 2013-02-20 Analyzed By: DL
 Prep Batch: 84012 QC Preparation: 2013-02-20 Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3940	3930	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99174
Prep Batch: 84012Date Analyzed: 2013-02-20
QC Preparation: 2013-02-20Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	975	mg/L	1	1000	<5.00	98	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	978	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.

Matrix Spike (MS-1) Spiked Sample: 321674

QC Batch: 99245
Prep Batch: 84075Date Analyzed: 2013-02-26
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	42.0	mg/L	1	50.0	<1.72	84	10 - 151	5	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: 321626

QC Batch: 99439
Prep Batch: 84234Date Analyzed: 2013-02-19
QC Preparation: 2013-02-19Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	Qs	1	2660	mg/L	55.6	1390	1120	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride	qs	1	2650	mg/L	55.6	1390	1120	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: 321626

QC Batch: 99439 Date Analyzed: 2013-02-19 Analyzed By: JR
Prep Batch: 84234 QC Preparation: 2013-02-19 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	295	mg/L	55.6	278	20.5	99	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	291	mg/L	55.6	278	20.5	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: 321628

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
Prep Batch: 84235 QC Preparation: 2013-02-19 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2480	mg/L	55.6	1390	963	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2480	mg/L	55.6	1390	963	109	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: 321628

QC Batch: 99440 Date Analyzed: 2013-02-19 Analyzed By: JR
Prep Batch: 84235 QC Preparation: 2013-02-19 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	17.4	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	290	mg/L	55.6	278	17.4	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: 99245

Date Analyzed: 2013-02-26

Analyzed By: AK

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	2013-02-26

Standard (CCV-1)

QC Batch: 99245

Date Analyzed: 2013-02-26

Analyzed By: AK

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	2013-02-26

Standard (CCV-1)

QC Batch: 99439

Date Analyzed: 2013-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2013-02-19

Standard (CCV-1)

QC Batch: 99439

Date Analyzed: 2013-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2013-02-19

Standard (CCV-2)

QC Batch: 99439

Date Analyzed: 2013-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-02-19

Standard (CCV-2)

QC Batch: 99439

Date Analyzed: 2013-02-19

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	4.91	98	90 - 110	2013-02-19

Standard (CCV-1)

QC Batch: 99440

Date Analyzed: 2013-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-02-19

Standard (CCV-1)

QC Batch: 99440

Date Analyzed: 2013-02-19

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	4.91	98	90 - 110	2013-02-19

Standard (CCV-2)

QC Batch: 99440

Date Analyzed: 2013-02-19

Analyzed By: JR

Report Date: March 7, 2013

Work Order: 13021833
Gonzalez Dairy Inc.

Page Number: 17 of 19
14310 Stern Dr., Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2013-02-19

Standard (CCV-2)

QC Batch: 99440

Date Analyzed: 2013-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2013-02-19

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

8707 Aberdeen, Ste. 8 Lubbock, TX 79424
 Tel (806) 794-1286 Fax (806) 794-1286
TraceAnalysis, Inc.
 155 McArthur, Ste. H El Paso, TX 79932
 Tel (915) 565-3443 Fax (915) 565-4844

Company Name: **D&H Petroleum & Environmental Services**
 Address: (Street, City, Zip) **1221 Tower Trail Ln, El Paso TX 79907**
 Contact Person: **Victor Ayala**
 Invoice to (if different from above): **Gonzalez Dairy, PO Box 199, Mesquite, NM 88046**
 Project #: **407261**
 Project Location (including state): **Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM**

Company Name: **TraceAnalysis, Inc.**
 Address: (Street, City, Zip) **155 McArthur, Ste. H El Paso, TX 79932**
 Contact Person: **Victor Ayala**
 Phone #: **915-859-8150**
 Cell #: **915-859-8150**
 Fax #: **915-859-8150**
 E-mail: **vayala@dhpump.com**
 Project Name: **Joe Gonzalez 575-233-4801**
 Project Location: **Gonzalez Dairy Inc.**
 Sampler Signature: *Angel A. Pina*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		TIME		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE		TIME	
177-04		1		X						X							
177-04		1		X						X							
177-02		1		X						X							
177-02		1		X						X							
221625-1	177-03A	1	250ml	X						X					2-18-13	13:31	
1-2	177-03A	1	250ml	X						X					2-18-13	13:31	
321626-1	177-04	1	250ml	X						X					2-18-13	12:19	
1-2	177-04	1	250ml	X						X					2-18-13	12:19	
321627-1	177-05	1	250ml	X						X					2-18-13	11:18	
1-2	177-05	1	250ml	X						X					2-18-13	11:18	
221628-1	177-06	1	250ml	X						X					2-18-13	10:22	
1-2	177-06	1	250ml	X						X					2-18-13	10:22	
177-07A		1		X						X							
177-07B		1		X						X							

Relinquished By: *Angel A. Pina* Date: **2-15-13** Time: **15:02**
 Relinquished By: *Denny A. Hoo* Date: **2-15-13** Time: **16:30**
 Received By: *Denny A. Hoo* Date: **2-18-13** Time: **15:02**
 Received at Laboratory By: *Denny A. Hoo* Date: **2-18-13** Time: **15:02**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # **13021833**
 Page **1** of **1**

ANALYSIS REQUEST

Method	Result
MTBE 80218/602	
BTEX 80218/602	
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	

Remarks: **ICE Camp 1/N**
 Lab Use Only
 Initials: *Y I N*
 Headspace: *Y I N*
 Temp: *11 20.0*
 Log-in Review: *[Signature]*
 Dry Weight Basis Required
 TRRP Report Required
 Z-15-12

LAB Order ID # 13021833

Company Name: D&H Petroleum & Environmental Services
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: Victor Ayala
 Phone #: 915-859-8150
 Cell #: 915-859-8150
 Fax #: 915-859-8150
 E-mail: vayala@dhpump.com
 Project #: 407268
 Project Name: Joe Gonzalez 575-233-4801
 Project Location (including state): Gonzalez Dairy, PO Box 199, Mesquite, NM 88048
 Sampler Signature: Carol h Paw
 Project Location (including state): Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		TIME		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		DATE	
177-01		1		X				X				X				
177-01		1		X				X				X				
177-02		1		X				X				X				
177-02		1		X				X				X				
177-03 A		1	250ml	X				X				X			2-18-13	13:31
177-03 A		1	250ml	X				X				X			2-18-13	13:31
177-04		1	250ml	X				X				X			2-18-13	12:19
177-04		1	250ml	X				X				X			2-18-13	12:19
177-05		1	250ml	X				X				X			2-18-13	11:18
177-05		1	250ml	X				X				X			2-18-13	11:18
177-06		1	250ml	X				X				X			2-18-13	10:23
177-06		1	250ml	X				X				X			2-18-13	10:23
177-07 R		1		X				X				X				
177-07 R		1		X				X				X				

Reinquired By: Angel A. Rivera Date: 2-18-13 Time: 15:02
 Required By: Denny de Haas Date: 2-18-13 Time: 15:02
 Required At Laboratory By: Denny de Haas Date: 2/19/13 Time: 8:50
 Required At Laboratory By: Denny de Haas Date: 2-18-13 Time: 10:30

Lab Use Only
 Intact / N
 Headspace Y / N
 Temp 1/20
 Log-in Review g

Remarks: 1.4/18 ICE
RS 48130484
Camp 1 N
 Dry Weight Basis Required
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.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: February 28, 2013

Work Order: 13021433



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
321178	624-01	water	2013-02-14	10:36	2013-02-14
321179	624-02	water	2013-02-14	11:30	2013-02-14
321180	624-05	water	2013-02-14	12:28	2013-02-14
321181	624-06	water	2013-02-14	14:16	2013-02-14
321182	624 Lagoon	water	2013-02-14	09:17	2013-02-14

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2013-02-14 and assigned to work order 13021433. Samples for work order 13021433 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	83939	2013-02-15 at 19:41	99073	2013-02-15 at 19:41
Chloride (IC)	E 300.0	84135	2013-02-15 at 04:18	99323	2013-02-15 at 04:18
Chloride (IC)	E 300.0	84147	2013-02-15 at 23:38	99332	2013-02-15 at 23:38
NO3 (IC)	E 300.0	83939	2013-02-15 at 19:41	99073	2013-02-15 at 19:41
NO3 (IC)	E 300.0	84135	2013-02-15 at 04:18	99323	2013-02-15 at 04:18
NO3 (IC)	E 300.0	84147	2013-02-15 at 23:38	99332	2013-02-15 at 23:38
TDS	SM 2540C	83893	2013-02-15 at 10:00	99018	2013-02-15 at 10:00
TDS	SM 2540C	84007	2013-02-18 at 09:00	99169	2013-02-18 at 09:00
TKN	SM 4500-NH3 B,C	83909	2013-02-18 at 08:00	99039	2013-02-18 at 02:00

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 13021433 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: 321178 - 624-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	827	827	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321178 - 624-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	15.6	15.6	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321178 - 624-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2980	2980	<5.00	mg/L	1	5.00	5	5

Sample: 321178 - 624-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99039 Date Analyzed: 2013-02-18 Analyzed By: AK
 Prep Batch: 83909 Sample Preparation: 2013-02-18 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321179 - 624-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99073 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 83939 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1110	1110	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321179 - 624-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99073 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 83939 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	9.30	9.30	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321179 - 624-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3580	3580	<5.00	mg/L	1	5.00	5	5

Sample: 321179 - 624-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99039 Date Analyzed: 2013-02-18 Analyzed By: AK
 Prep Batch: 83909 Sample Preparation: 2013-02-18 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.10	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321180 - 624-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99073 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 83939 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	508	508	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321180 - 624-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99073 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 83939 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	6.72	6.72	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321180 - 624-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

continued . . .

sample 321180 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2040	2040	<5.00	mg/L	1	5.00	5	5

Sample: 321180 - 624-05

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99039

Prep Batch: 83909

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-02-18

Sample Preparation: 2013-02-18

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321181 - 624-06

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99073

Prep Batch: 83939

Analytical Method: E 300.0

Date Analyzed: 2013-02-15

Sample Preparation: 2013-02-15

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1150	1150	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321181 - 624-06

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99073

Prep Batch: 83939

Analytical Method: E 300.0

Date Analyzed: 2013-02-15

Sample Preparation: 2013-02-15

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	31.5	31.5	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321181 - 624-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3600	3600	<5.00	mg/L	1	5.00	5	5

Sample: 321181 - 624-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99039 Date Analyzed: 2013-02-18 Analyzed By: AK
 Prep Batch: 83909 Sample Preparation: 2013-02-18 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321182 - 624 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84147 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	5130	5130	<25.4	mg/L	500	25.4	2.5	0.0508

Sample: 321182 - 624 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84147 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.491	<5.00	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 321182 - 624 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
 Prep Batch: 84007 Sample Preparation: 2013-02-18 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	22800	22800	<5.00	mg/L	1	5.00	5	5

Sample: 321182 - 624 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99039 Date Analyzed: 2013-02-18 Analyzed By: AK
 Prep Batch: 83909 Sample Preparation: 2013-02-18 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	34.3	34.3	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99018
Prep Batch: 83893Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99039
Prep Batch: 83909Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99073
Prep Batch: 83939Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99073
Prep Batch: 83939Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99169 Date Analyzed: 2013-02-18 Analyzed By: DL
Prep Batch: 84007 QC Preparation: 2013-02-18 Prepared By: DL

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

Method Blank (1)

QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84135 QC Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.36	mg/L	0.0508

Method Blank (1)

QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84135 QC Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99332 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84147 QC Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99332
Prep Batch: 84147Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321179QC Batch: 99018
Prep Batch: 83893Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3580	3580	mg/L	1	0	10

Duplicate (1) Duplicated Sample: 321401QC Batch: 99169
Prep Batch: 84007Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3800	3800	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99018
Prep Batch: 83893Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 99169
Prep Batch: 84007Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: DL
Prepared By: DL

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	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 321179

QC Batch: 99039
Prep Batch: 83909Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	47.6	mg/L	1	50.0	2.1	91	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	2.1	88	10 - 151	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: 321180

QC Batch: 99073 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 83939 QC Preparation: 2013-02-15 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1970	mg/L	55.6	1390	508	105	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1960	mg/L	55.6	1390	508	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: 321180

QC Batch: 99073 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 83939 QC Preparation: 2013-02-15 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	280	mg/L	55.6	278	6.72	98	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	279	mg/L	55.6	278	6.72	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: 321011

QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84135 QC Preparation: 2013-02-15 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1990	mg/L	55.6	1390	571	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. Limit	RPD	RPD Limit	
Chloride		1	2000	mg/L	55.6	1390	571	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: 321011

QC Batch: 99323
Prep Batch: 84135

Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	275	mg/L	55.6	278	12.2	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. Limit	RPD	RPD Limit	
Nitrate-N		1	279	mg/L	55.6	278	12.2	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: 321400

QC Batch: 99332
Prep Batch: 84147

Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15

Analyzed By: JR
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	457	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. Limit	RPD	RPD Limit	
Chloride		1	1920	mg/L	55.6	1390	457	105	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: 321400

QC Batch: 99332
 Prep Batch: 84147

Date Analyzed: 2013-02-15
 QC Preparation: 2013-02-15

Analyzed By: JR
 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	295	mg/L	55.6	278	17.6	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	297	mg/L	55.6	278	17.6	100	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: 99039

Date Analyzed: 2013-02-18

Analyzed By: AK

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	2013-02-18

Standard (CCV-1)

QC Batch: 99039

Date Analyzed: 2013-02-18

Analyzed By: AK

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	2013-02-18

Standard (CCV-1)

QC Batch: 99073

Date Analyzed: 2013-02-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-02-15

Standard (CCV-1)

QC Batch: 99073

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-2)

QC Batch: 99073 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-2)

QC Batch: 99073 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-1)

QC Batch: 99323 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-1)

QC Batch: 99323 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-2)

QC Batch: 99323 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-2)

QC Batch: 99323

Date Analyzed: 2013-02-15

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	4.78	96	90 - 110	2013-02-15

Standard (CCV-1)

QC Batch: 99332

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-1)

QC Batch: 99332

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-2)

QC Batch: 99332

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-2)

QC Batch: 99332

Date Analyzed: 2013-02-15

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	2013-02-15

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Company Name: D&H Petroleum & Environmental Services
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: Victor Ayala
 Phone #: 915-859-8150
 Cell #:
 Fax #:
 E-mail: vajala@dhpump.com

Invoice to (if different from above):
 Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048
 Project #: 407265
 Project Name: Isaac Dominguez 575-649-7040
 Dominguez Dairy #1
 Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM
 Sampler Signature: *Isaac Dominguez*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					Sampling		Turn Around Time	Hold		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE			TIME	
32178-1	624-01	1	250ml	X			X				X			2-14-13	10:36		
1-2	624-01	1	250ml	X			X				X			2-14-13	10:36		
32179-1	624-02	1	250ml	X			X				X			2-14-13	11:30		
1-2	624-02	1	250ml	X			X				X			2-14-13	11:30		
624-04	624-04	1		X			X				X						
624-04	624-04	1		X			X				X						
32180-1	624-05	1	250ml	X			X				X			2-14-13	12:38		
1-2	624-05	1	250ml	X			X				X			2-14-13	12:38		
32181-1	624-06	1	250ml	X			X				X			2-14-13	14:16		
1-2	624-06	1	250ml	X			X				X			2-14-13	14:16		
624-07	624-07	1		X			X				X						
624-08	624-08	1		X			X				X						
624-08	624-08	1		X			X				X						
132182-1	624 Lagoon	1	250ml	X			X				X			2-14-13	9:17		
1-2	624 Lagoon	1	250ml	X			X				X			2-14-13	9:17		

ANALYSIS REQUEST

TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Remarks: ICE
TKN IN Lubbock

Lab Use Only
 Intact Y N
 Headspace Y N
 Temp 01205
 Log-in Review *[Signature]*

Relinquished By: *Isaac Dominguez* Date: 2-14-13 Time: 15:10
 Relinquished By: *Denny de Haan* Date: 2-14-13 Time: 16:30
 Relinquished By: *Denny de Haan* Date: 2-14-13 Time: 15:10
 Relinquished By: *Brenda Ward* Date: 2-14-13 Time: 9:50

Dry Weight Basis Required
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.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: March 11, 2013

Work Order: 13022128



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
321831	167-03	water	2013-02-21	08:32	2013-02-21
321832	167-05	water	2013-02-21	10:34	2013-02-21
321833	167-09	water	2013-02-21	10:06	2013-02-21

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

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

Notes:

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

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

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2013-02-21 and assigned to work order 13022128. Samples for work order 13022128 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	84342	2013-02-22 at 22:28	99546	2013-02-22 at 22:28
NO3 (IC)	E 300.0	84342	2013-02-22 at 22:28	99546	2013-02-22 at 22:28
TDS	SM 2540C	84058	2013-02-22 at 07:00	99226	2013-02-22 at 07:00
TDS	SM 2540C	84197	2013-02-26 at 10:00	99399	2013-02-26 at 10:00
TKN	SM 4500-NH3 B,C	84092	2013-02-27 at 08:26	99392	2013-02-27 at 01:00

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 13022128 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: 321831 - 167-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99546 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84342 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	500	500	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321831 - 167-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99546 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84342 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	13.0	13.0	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321831 - 167-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1950	1950	<5.00	mg/L	1	5.00	5	5

Sample: 321831 - 167-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99392 Date Analyzed: 2013-02-27 Analyzed By: AK
 Prep Batch: 84092 Sample Preparation: 2013-02-27 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321832 - 167-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99546 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84342 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	842	842	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321832 - 167-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99546 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84342 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	3.73	3.73	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321832 - 167-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3360	3360	<5.00	mg/L	1	5.00	5	5

Sample: 321832 - 167-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99392 Date Analyzed: 2013-02-27 Analyzed By: AK
 Prep Batch: 84092 Sample Preparation: 2013-02-27 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321833 - 167-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99546 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84342 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	959	959	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321833 - 167-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99546 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84342 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	4.51	4.51	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321833 - 167-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

continued . . .

sample 321833 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3580	3580	<5.00	mg/L	1	5.00	5	5

Sample: 321833 - 167-09

Laboratory: Lubbock
Analysis: TKN
QC Batch: 99392
Prep Batch: 84092

Analytical Method: SM 4500-NH3 B,C
Date Analyzed: 2013-02-27
Sample Preparation: 2013-02-27

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99226
Prep Batch: 84058Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99392
Prep Batch: 84092Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99546
Prep Batch: 84342Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.38	mg/L	0.0508

Method Blank (1)

QC Batch: 99546 Date Analyzed: 2013-02-22 Analyzed By: JR
Prep Batch: 84342 QC Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.553	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321829

QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
Prep Batch: 84058 QC Preparation: 2013-02-22 Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3050	2980	mg/L	1	2	10

Duplicate (1) Duplicated Sample: 322126

QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
Prep Batch: 84197 QC Preparation: 2013-02-26 Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4520	4500	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99226
Prep Batch: 84058Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	965	mg/L	1	1000	<5.00	96	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	971	mg/L	1	1000	<5.00	97	90 - 110	1	10

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

Matrix Spike (MS-1) Spiked Sample: 322111

QC Batch: 99392
Prep Batch: 84092Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	49.7	mg/L	1	50.0	<1.72	99	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	<1.72	97	10 - 151	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: 321831

QC Batch: 99546
Prep Batch: 84342

Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1900	mg/L	55.6	1390	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	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1900	mg/L	55.6	1390	500	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: 321831

QC Batch: 99546
Prep Batch: 84342

Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	277	mg/L	55.6	278	13	95	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	279	mg/L	55.6	278	13	96	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: 99392

Date Analyzed: 2013-02-27

Analyzed By: AK

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	2013-02-27

Standard (CCV-1)

QC Batch: 99392

Date Analyzed: 2013-02-27

Analyzed By: AK

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	2013-02-27

Standard (CCV-1)

QC Batch: 99546

Date Analyzed: 2013-02-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2013-02-22

Standard (CCV-1)

QC Batch: 99546

Date Analyzed: 2013-02-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2013-02-22

Standard (CCV-2)

QC Batch: 99546

Date Analyzed: 2013-02-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2013-02-22

Standard (CCV-2)

QC Batch: 99546

Date Analyzed: 2013-02-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2013-02-22

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 13022/28

Company Name: D&H Petroleum & Environmental Services
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: Victor Ayala
 Phone #: 915-859-8150
 Cell #:
 Fax #:
 E-mail: valajala@dhpump.com

Project #: 407270
 Project Name: Bruce Bonestroo 575-233-2061
 Project Location (including state): River Valley Dairy, PO Box 1929, Anthony, NM 88021
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM
 Sampler Signature: [Signature]
 River Valley Dairy, LLC

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄			NaOH
167-01		1		X				X					
167-01		2		X				X					
167-01A		1		X				X					
167-01A		2		X				X					
167-02		1		X				X					
167-02		2		X				X					
167-03		1	250ml	X				X			2-21-13	8:32	
167-03		2	250ml	X				X			2-21-13	8:32	
167-04		1		X				X					
167-04		2		X				X					
167-05		1	250ml	X				X			2-21-13	10:34	
167-05		2	250ml	X				X			2-21-13	10:34	
167-06		1		X				X					
167-06		2		X				X					
167-09		1	250ml	X				X			2-21-13	10:06	
167-09		2	250ml	X				X			2-21-13	10:06	

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

Turn Around Time

Hold

Relinquished By: Cheryl N Perea Date: 2-21-13 Time: 15:10
 Relinquished By: Danny de Haan Date: 2-21-13 Time: 16:30

Received By: Danny de Haan Date: 2-21-13 Time: 15:10
 Received at Laboratory By: [Signature] Date: 2/20/13 Time: 9:15

Remarks: ICE 2-21-13 PPA TEN LABOK
20: 48730487
comg IN
 Dry Weight Basis Required
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.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: March 11, 2013

Work Order: 13022126



DP: 257
 Project Location: 17900 S. Stern Dr., Mesquite, NM
 Project Name: Sunset Dairy

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
321826	257-01	water	2013-02-21	13:36	2013-02-21
321827	257-02	water	2013-02-21	13:13	2013-02-21
321828	257-03	water	2013-02-21	14:22	2013-02-21
321829	257/260-01	water	2013-02-21	12:04	2013-02-21
321830	257 Lagoon	water	2013-02-21	13:51	2013-02-21

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

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2013-02-21 and assigned to work order 13022126. Samples for work order 13022126 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	84242	2013-02-21 at 23:47	99447	2013-02-21 at 23:47
Chloride (IC)	E 300.0	84337	2013-02-22 at 18:23	99541	2013-02-22 at 18:23
NO3 (IC)	E 300.0	84242	2013-02-21 at 23:47	99447	2013-02-21 at 23:47
NO3 (IC)	E 300.0	84337	2013-02-22 at 18:23	99541	2013-02-22 at 18:23
P, Total	S 6010C	84115	2013-02-27 at 15:07	99317	2013-02-28 at 12:00
TDS	SM 2540C	84058	2013-02-22 at 07:00	99226	2013-02-22 at 07:00
TKN	SM 4500-NH3 B,C	84092	2013-02-27 at 08:26	99392	2013-02-27 at 01:00

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 13022126 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: 321826 - 257-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99447 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84242 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	665	665	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321826 - 257-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99447 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84242 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	28.3	28.3	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321826 - 257-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3200	3200	<5.00	mg/L	1	5.00	5	5

Sample: 321826 - 257-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99392 Date Analyzed: 2013-02-27 Analyzed By: AK
 Prep Batch: 84092 Sample Preparation: 2013-02-27 Prepared By: AK

Report Date: March 11, 2013

Work Order: 13022126
Sunset Dairy

Page Number: 6 of 21
17900 S. Stern Dr., Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321827 - 257-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99447 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84242 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	470	470	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321827 - 257-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99447 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84242 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	10.3	10.3	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321827 - 257-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1980	1980	<5.00	mg/L	1	5.00	5	5

Sample: 321827 - 257-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99392 Date Analyzed: 2013-02-27 Analyzed By: AK
 Prep Batch: 84092 Sample Preparation: 2013-02-27 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321828 - 257-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99541 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84337 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	520	520	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321828 - 257-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99541 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84337 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	2.65	2.65	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321828 - 257-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

continued . . .

sample 321828 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2060	2060	<5.00	mg/L	1	5.00	5	5

Sample: 321828 - 257-03

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99392

Prep Batch: 84092

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-02-27

Sample Preparation: 2013-02-27

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321829 - 257/260-01

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99541

Prep Batch: 84337

Analytical Method: E 300.0

Date Analyzed: 2013-02-22

Sample Preparation: 2013-02-22

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	816	816	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321829 - 257/260-01

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99541

Prep Batch: 84337

Analytical Method: E 300.0

Date Analyzed: 2013-02-22

Sample Preparation: 2013-02-22

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	9.35	9.35	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321829 - 257/260-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2980	2980	<5.00	mg/L	1	5.00	5	5

Sample: 321829 - 257/260-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99392 Date Analyzed: 2013-02-27 Analyzed By: AK
 Prep Batch: 84092 Sample Preparation: 2013-02-27 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321830 - 257 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99541 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84337 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	834	834	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321830 - 257 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99541 Date Analyzed: 2013-02-22 Analyzed By: JR
 Prep Batch: 84337 Sample Preparation: 2013-02-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321830 - 257 Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 99317 Date Analyzed: 2013-02-28 Analyzed By: RR
 Prep Batch: 84115 Sample Preparation: 2013-02-28 Prepared By: KV

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		2	101	101	<0.481	mg/L	10	0.481	0.5	0.0481

Sample: 321830 - 257 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99226 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84058 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	12300	12300	<5.00	mg/L	1	5.00	5	5

Sample: 321830 - 257 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99392 Date Analyzed: 2013-02-27 Analyzed By: AK
 Prep Batch: 84092 Sample Preparation: 2013-02-27 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	174	174	<6.88	mg/L	4	6.88	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99226
Prep Batch: 84058Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99317
Prep Batch: 84115Date Analyzed: 2013-02-28
QC Preparation: 2013-02-27Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.0481	mg/L	0.0481

Method Blank (1)

QC Batch: 99392
Prep Batch: 84092Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99447
Prep Batch: 84242Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99447
Prep Batch: 84242Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99541
Prep Batch: 84337Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99541
Prep Batch: 84337Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321829QC Batch: 99226
Prep Batch: 84058Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3050	2980	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99226
Prep Batch: 84058Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 99317
Prep Batch: 84115Date Analyzed: 2013-02-28
QC Preparation: 2013-02-27Analyzed By: RR
Prepared By: KV

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	0.493	mg/L	1	0.500	<0.0481	99	85 - 115

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		2	0.489	mg/L	1	0.500	<0.0481	98	85 - 115	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: 321790

QC Batch: 99317
Prep Batch: 84115Date Analyzed: 2013-02-28
QC Preparation: 2013-02-27Analyzed By: RR
Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	0.494	mg/L	1	0.500	<0.0481	99	75 - 125

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Phosphorous		2	0.469	mg/L	1	0.500	<0.0481	94	75 - 125	5	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: 322111

QC Batch: 99392 Date Analyzed: 2013-02-27 Analyzed By: AK
 Prep Batch: 84092 QC Preparation: 2013-02-27 Prepared By: AK

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	49.7	mg/L	1	50.0	<1.72	99	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	<1.72	97	10 - 151	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: 321827

QC Batch: 99447 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84242 QC Preparation: 2013-02-21 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1890	mg/L	55.6	1390	470	102	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1890	mg/L	55.6	1390	470	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: 321827

QC Batch: 99447 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84242 QC Preparation: 2013-02-21 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	10.3	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	280	mg/L	55.6	278	10.3	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: 321828

QC Batch: 99541 Date Analyzed: 2013-02-22 Analyzed By: JR
Prep Batch: 84337 QC Preparation: 2013-02-22 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	520	104	90 - 110

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1930	mg/L	55.6	1390	520	101	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: 321828

QC Batch: 99541 Date Analyzed: 2013-02-22 Analyzed By: JR
Prep Batch: 84337 QC Preparation: 2013-02-22 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	273	mg/L	55.6	278	<2.73	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	266	mg/L	55.6	278	<2.73	95	90 - 110	3	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 99317

Date Analyzed: 2013-02-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.02	100	90 - 110	2013-02-28

Standard (CCV-1)

QC Batch: 99317

Date Analyzed: 2013-02-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.07	101	90 - 110	2013-02-28

Standard (ICV-1)

QC Batch: 99392

Date Analyzed: 2013-02-27

Analyzed By: AK

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	2013-02-27

Standard (CCV-1)

QC Batch: 99392

Date Analyzed: 2013-02-27

Analyzed By: AK

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	2013-02-27

Standard (CCV-1)

QC Batch: 99447 Date Analyzed: 2013-02-21 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	25.0	100	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99447 Date Analyzed: 2013-02-21 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	4.94	99	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99447 Date Analyzed: 2013-02-21 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	24.9	100	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99447 Date Analyzed: 2013-02-21 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	4.91	98	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99541 Date Analyzed: 2013-02-22 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.3	101	90 - 110	2013-02-22

Standard (CCV-1)

QC Batch: 99541

Date Analyzed: 2013-02-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2013-02-22

Standard (CCV-2)

QC Batch: 99541

Date Analyzed: 2013-02-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2013-02-22

Standard (CCV-2)

QC Batch: 99541

Date Analyzed: 2013-02-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2013-02-22

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Company Name: D&H Petroleum & Environmental Services
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: Victor Ayala
 Phone #: 915-859-8150
 Cell #:
 Fax #:
 E-mail: vajala@dhpump.com
 Project #: 407273
 Project Name: Sunset Dairy
 Project Location (including state): Sunset Dairy, PO Box 10, Mesquite, NM 88048
 Sampler Signature: [Signature]
 Project Location (including state): Sunset Dairy, 1790

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		
3218261	257-01	1	250ml	X				X				X		2-21-13	13:36
↓ -2	257-01	1	250ml	X				X				X		2-21-13	13:36
3218271	257-02	1	250ml	X				X				X		2-21-13	13:13
↓ -2	257-02	1	250ml	X				X				X		2-21-13	13:13
3218281	257-03	1	250ml	X				X				X		2-21-13	14:22
↓ -2	257-03	1	250ml	X				X				X		2-21-13	14:22
3218291	257/260-01	1	250ml	X				X				X		2-21-13	12:04
↓ -2	257/260-01	1	250ml	X				X				X		2-21-13	12:04
3218301	257 Lagoon	1	250ml	X				X				X		2-21-13	13:51
↓ -2	257 Lagoon	1	250ml	X				X				X		2-21-13	13:51
↓ -3	257 Lagoon	1	250ml	X				X				X		2-21-13	13:51

Relinquished By: Victor Ayala Date: 2-21-13 Time: 15:10
 Relinquished By: Danny de Haan Date: 2-21-13 Time: 16:30
 Received By: Danny de Haan Date: 2-21-13 Time: 15:10
 Received at Laboratory By: [Signature] Date: 2-21-13 Time: 9:15
 Lab Use Only: 3/1/13
 Intact: Y/N
 Headspace: Y/N
 Temp: 20/30/10
 Log-in Review: 2-21-13
 Remarks: ICE T-P & TKN Lubbock
JS: 481 30487
carry in
 Dry Weight Basis Required
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.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: March 11, 2013

Work Order: 13022527



DP: 833
Project Location: 17800 Stern Drive, Mesquite, NM 88048
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
322113	833-2	water	2013-02-25	11:16	2013-02-25
322114	833-4	water	2013-02-25	13:53	2013-02-25
322115	833-6	water	2013-02-25	12:40	2013-02-25

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

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

Notes:

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

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

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2013-02-25 and assigned to work order 13022527. Samples for work order 13022527 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	84380	2013-02-26 at 22:09	99591	2013-02-26 at 22:09
NO3 (IC)	E 300.0	84380	2013-02-26 at 22:09	99591	2013-02-26 at 22:09
TDS	SM 2540C	84197	2013-02-26 at 10:00	99399	2013-02-26 at 10:00
TKN	SM 4500-NH3 B,C	84182	2013-03-01 at 08:00	99393	2013-03-01 at 01:00

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 13022527 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: 322113 - 833-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99591 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84380 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1110	1110	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322113 - 833-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99591 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84380 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	97.0	97.0	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322113 - 833-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3820	3820	<5.00	mg/L	1	5.00	5	5

Sample: 322113 - 833-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322114 - 833-4

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99591 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84380 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1050	1050	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322114 - 833-4

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99591 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84380 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	2.45	<5.00	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 322114 - 833-4

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3600	3600	<5.00	mg/L	1	5.00	5	5

Sample: 322114 - 833-4

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322115 - 833-6

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99591 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84380 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	924	924	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322115 - 833-6

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99591 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84380 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	21.6	21.6	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322115 - 833-6

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

continued . . .

sample 322115 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2750	2750	<5.00	mg/L	1	5.00	5	5

Sample: 322115 - 833-6

Laboratory: Lubbock
Analysis: TKN
QC Batch: 99393
Prep Batch: 84182

Analytical Method: SM 4500-NH3 B,C
Date Analyzed: 2013-03-01
Sample Preparation: 2013-03-01

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99393
Prep Batch: 84182Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99591
Prep Batch: 84380Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99591
Prep Batch: 84380Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: JR
Prepared By: JR

Report Date: March 11, 2013

Work Order: 13022527
Big Sky Dairy

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17800 Stern Drive, Mesquite, NM 88048

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322126

QC Batch: 99399

Date Analyzed: 2013-02-26

Analyzed By: DL

Prep Batch: 84197

QC Preparation: 2013-02-26

Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4520	4500	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	965	mg/L	1	1000	<5.00	96	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	971	mg/L	1	1000	<5.00	97	90 - 110	1	10

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

Matrix Spike (MS-1) Spiked Sample: 322204

QC Batch: 99393
Prep Batch: 84182Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	41.3	mg/L	1	50.0	<1.72	83	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151	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: 322115

QC Batch: 99591
Prep Batch: 84380Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2430	mg/L	55.6	1390	924	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		Dil.	Spike Amount	Matrix		Rec.		RPD
			Result	Units			Result	Rec.	Limit	RPD	
Chloride		1	2430	mg/L	55.6	1390	924	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: 322115

QC Batch: 99591
Prep Batch: 84380

Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec.	
			Result	Units			Result	Rec.	Limit	
Nitrate-N		1	294	mg/L	55.6	278	21.6	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		Dil.	Spike Amount	Matrix		Rec.		RPD
			Result	Units			Result	Rec.	Limit	RPD	
Nitrate-N		1	294	mg/L	55.6	278	21.6	98	90 - 110	0	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99591

Date Analyzed: 2013-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.2	101	90 - 110	2013-02-26

Standard (CCV-1)

QC Batch: 99591

Date Analyzed: 2013-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2013-02-26

Standard (CCV-2)

QC Batch: 99591

Date Analyzed: 2013-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2013-02-26

Standard (CCV-2)

QC Batch: 99591

Date Analyzed: 2013-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2013-02-26

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

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

Company Name: D&H Petroleum & Environmental Services

Address: (Street, City, Zip)
1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person: Victor Ayala

Phone #: 915-859-8150

Cell #: _____

Fax #: _____

E-mail: vayala@dhpump.com

Project #: 407259

Project Name: George Segura 575-233-3620

Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM

Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	Turn Around Time	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH				ICE
833-1		1		X				X							
833-1		1		X				X							
32213-1		1	250 ml	X				X					2-25-13	11:16	
32214-2		1	250 ml	X				X					2-25-13	11:16	
32215-2		1		X				X							
833-3		1		X				X							
833-3		1		X				X							
32214-1		1	250 ml	X				X					2-25-13	13:53	
32214-2		1	250 ml	X				X					2-25-13	13:53	
833-5		1		X				X							
833-5		1		X				X							
32215-1		1	250 ml	X				X					2-25-13	12:40	
32215-2		1	250 ml	X				X					2-25-13	12:40	
833-7		1		X				X							
833-7		1		X				X							
833-6		1		X				X							
833-6		1		X				X							
833-8		1		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	X
Nitrates EPA 300	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X

LAB Order ID # 13022527

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: <u>[Signature]</u>	Date: <u>2-25-13</u>	Time: <u>15:10</u>	Received By: <u>[Signature]</u>	Date: <u>2/25/13</u>	Time: <u>15:10</u>
Relinquished By: <u>[Signature]</u>	Date: <u>2/25/13</u>	Time: <u>16:20</u>	Received at Laboratory By: <u>[Signature]</u>	Date: <u>2/25/13</u>	Time: <u>8:15</u>

Remarks: carry in
YS: 48150488
103 2/28
(3)

Lab Use Only
Intact Y/N
Headspace Y/N
Temp RR of 2
Log-in Review out

Dry Weight Basis Required
TRRP Report Required

7-25-13



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 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.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: March 11, 2013

Work Order: 13022526



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
322112	167-08	water	2013-02-25	10:05	2013-02-25

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

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2013-02-25 and assigned to work order 13022526. Samples for work order 13022526 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	84372	2013-02-26 at 18:04	99583	2013-02-26 at 18:04
NO3 (IC)	E 300.0	84372	2013-02-26 at 18:04	99583	2013-02-26 at 18:04
TDS	SM 2540C	84197	2013-02-26 at 10:00	99399	2013-02-26 at 10:00
TKN	SM 4500-NH3 B,C	84182	2013-03-01 at 08:00	99393	2013-03-01 at 01:00

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 13022526 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: 322112 - 167-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99583 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84372 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	827	827	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322112 - 167-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99583 Date Analyzed: 2013-02-26 Analyzed By: JR
 Prep Batch: 84372 Sample Preparation: 2013-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	0.895	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322112 - 167-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2640	2640	<5.00	mg/L	1	5.00	5	5

Sample: 322112 - 167-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99393
Prep Batch: 84182Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99583
Prep Batch: 84372Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99583
Prep Batch: 84372Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: JR
Prepared By: JR

Report Date: March 11, 2013

Work Order: 13022526
River Valley Dairy, LLC

Page Number: 7 of 13
1400 La Chuga Rd., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322126

QC Batch: 99399

Date Analyzed: 2013-02-26

Analyzed By: DL

Prep Batch: 84197

QC Preparation: 2013-02-26

Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4520	4500	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	965	mg/L	1	1000	<5.00	96	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	971	mg/L	1	1000	<5.00	97	90 - 110	1	10

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

Matrix Spike (MS-1) Spiked Sample: 322204

QC Batch: 99393
Prep Batch: 84182Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	41.3	mg/L	1	50.0	<1.72	83	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151	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: 322110

QC Batch: 99583
Prep Batch: 84372Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1770	mg/L	55.6	1390	354	102	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1760	mg/L	55.6	1390	354	101	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: 322110

QC Batch: 99583
Prep Batch: 84372

Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	272	mg/L	55.6	278	<2.73	98	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	272	mg/L	55.6	278	<2.73	98	90 - 110	0	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99583

Date Analyzed: 2013-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.4	102	90 - 110	2013-02-26

Standard (CCV-1)

QC Batch: 99583

Date Analyzed: 2013-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.02	100	90 - 110	2013-02-26

Standard (CCV-2)

QC Batch: 99583 Date Analyzed: 2013-02-26 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.2	101	90 - 110	2013-02-26

Standard (CCV-2)

QC Batch: 99583 Date Analyzed: 2013-02-26 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2013-02-26

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

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 E-mail: vajala@dhpump.com
 Invoice to (if different from above): River Valley Dairy, PO Box 1929, Anthony, NM 88021
 Project #: 407270 Project Name: Bruce Bonestroo 575-233-2061
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM Sampler Signature: [Signature]

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
322112-167-08		1	250ml	X						X	X	X	2-25-13	10:05
1-2-167-08		2	250ml	X						X	X	X	2-25-13	10:05
167-09		1		X						X	X	X		
167-09		2		X						X	X	X		
167 Lagoon		1		X						X	X	X		
167 Lagoon		2		X						X	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	X
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	

Remarks: carry in ICE
IR 2.4128 AS. 48130488
 Dry Weight Basis Required
 TRRP Report Required

Relinquished By: <u>[Signature]</u>	Date: <u>2-25-13</u>	Time: <u>15:10</u>	Received By: <u>[Signature]</u>	Date: <u>2/25/13</u>	Time: <u>15:10</u>
Relinquished By: <u>[Signature]</u>	Date: <u>2/28/13</u>	Time: <u>16:30</u>	Received at Laboratory By: <u>[Signature]</u>	Date: <u>2/28/13</u>	Time: <u>8:15</u>



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 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.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: March 14, 2013

Work Order: 13022608



DP: 833
Project Location: 17800 Stern Drive, Mesquite, NM 88048
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
322123	833-08	water	2013-02-26	13:58	2013-02-26
322124	833 Lagoon	water	2013-02-26	10:54	2013-02-26
322125	833-05	water	2013-02-26	10:06	2013-02-26
322126	833-07	water	2013-02-26	12:31	2013-02-26

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.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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



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

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2013-02-26 and assigned to work order 13022608. Samples for work order 13022608 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	84383	2013-02-27 at 19:03	99595	2013-02-27 at 19:03
Chloride (IC)	E 300.0	84384	2013-02-27 at 23:24	99599	2013-02-27 at 23:24
NO3 (IC)	E 300.0	84383	2013-02-27 at 19:03	99595	2013-02-27 at 19:03
NO3 (IC)	E 300.0	84384	2013-02-27 at 23:24	99599	2013-02-27 at 23:24
P, Total	S 6010C	84115	2013-02-27 at 15:07	99317	2013-02-28 at 12:00
TDS	SM 2540C	84197	2013-02-26 at 10:00	99399	2013-02-26 at 10:00
TKN	SM 4500-NH3 B,C	84182	2013-03-01 at 08:00	99393	2013-03-01 at 01:00

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 13022608 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.

This report contains 1 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
I. 99599 MS-1	Sulfate	MI4	Instrument software integrated improperly

Analytical Report

Sample: 322123 - 833-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99595 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84383 Sample Preparation: 2013-02-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	877	877	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322123 - 833-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99595 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84383 Sample Preparation: 2013-02-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	83.1	83.1	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322123 - 833-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2940	2940	<5.00	mg/L	1	5.00	5	5

Sample: 322123 - 833-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322124 - 833 Lagoon

Laboratory: El Paso

Analysis: Chloride (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 99595

Date Analyzed: 2013-02-27

Analyzed By: JR

Prep Batch: 84383

Sample Preparation: 2013-02-27

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	717	717	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322124 - 833 Lagoon

Laboratory: El Paso

Analysis: NO3 (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 99595

Date Analyzed: 2013-02-27

Analyzed By: JR

Prep Batch: 84383

Sample Preparation: 2013-02-27

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322124 - 833 Lagoon

Laboratory: Lubbock

Analysis: P, Total

Analytical Method: S 6010C

Prep Method: S 3010A

QC Batch: 99317

Date Analyzed: 2013-02-28

Analyzed By: RR

Prep Batch: 84115

Sample Preparation: 2013-02-28

Prepared By: KV

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		2	72.0	72.0	<0.481	mg/L	10	0.481	0.5	0.0481

Sample: 322124 - 833 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	4780	4780	<5.00	mg/L	1	5.00	5	5

Sample: 322124 - 833 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	300	300	<6.88	mg/L	4	6.88	10	1.72

Sample: 322125 - 833-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99595 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84383 Sample Preparation: 2013-02-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1270	1270	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322125 - 833-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99595 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84383 Sample Preparation: 2013-02-27 Prepared By: JR

continued ...

sample 322125 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	16.8	16.8	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322125 - 833-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3140	3140	<5.00	mg/L	1	5.00	5	5

Sample: 322125 - 833-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322126 - 833-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84384 Sample Preparation: 2013-02-27 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1470	1470	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322126 - 833-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84384 Sample Preparation: 2013-02-27 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	95.5	95.5	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 322126 - 833-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99399 Date Analyzed: 2013-02-26 Analyzed By: DL
 Prep Batch: 84197 Sample Preparation: 2013-02-26 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4500	4500	<5.00	mg/L	1	5.00	5	5

Sample: 322126 - 833-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99317
Prep Batch: 84115Date Analyzed: 2013-02-28
QC Preparation: 2013-02-27Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.0481	mg/L	0.0481

Method Blank (1)

QC Batch: 99393
Prep Batch: 84182Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99595
Prep Batch: 84383Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99595
Prep Batch: 84383Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99599
Prep Batch: 84384Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.36	mg/L	0.0508

Method Blank (1)QC Batch: 99599
Prep Batch: 84384Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322126QC Batch: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

Report Date: March 14, 2013

Work Order: 13022608
Big Sky Dairy

Page Number: 12 of 20
17800 Stern Drive, Mesquite, NM 88048

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4520	4500	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99317
Prep Batch: 84115Date Analyzed: 2013-02-28
QC Preparation: 2013-02-27Analyzed By: RR
Prepared By: KV

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Phosphorous		2	0.493	mg/L	1	0.500	<0.0481	99	85 - 115

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

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Phosphorous		2	0.489	mg/L	1	0.500	<0.0481	98	85 - 115	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: 99399
Prep Batch: 84197Date Analyzed: 2013-02-26
QC Preparation: 2013-02-26Analyzed By: DL
Prepared By: DL

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	965	mg/L	1	1000	<5.00	96	90 - 110

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

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	971	mg/L	1	1000	<5.00	97	90 - 110	1	10

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

Matrix Spike (MS-1) Spiked Sample: 321790

QC Batch: 99317
Prep Batch: 84115Date Analyzed: 2013-02-28
QC Preparation: 2013-02-27Analyzed By: RR
Prepared By: KV

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Phosphorous		2	0.494	mg/L	1	0.500	<0.0481	99	75 - 125

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Phosphorous		2	0.469	mg/L	1	0.500	<0.0481	94	75 - 125	5	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: 322204

QC Batch: 99393
Prep Batch: 84182

Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01

Analyzed By: AK
Prepared By: AK

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	41.3	mg/L	1	50.0	<1.72	83	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151	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: 322123

QC Batch: 99595
Prep Batch: 84383

Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Chloride		1	2380	mg/L	55.6	1390	877	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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2390	mg/L	55.6	1390	877	109	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: 322123

QC Batch: 99595
Prep Batch: 84383

Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	352	mg/L	55.6	278	83.1	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	354	mg/L	55.6	278	83.1	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: 322203

QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
Prep Batch: 84384 QC Preparation: 2013-02-27 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2120	mg/L	55.6	1390	654	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	2120	mg/L	55.6	1390	654	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: 322203

QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
Prep Batch: 84384 QC Preparation: 2013-02-27 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	363	mg/L	55.6	278	87.9	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	362	mg/L	55.6	278	87.9	98	90 - 110	0	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 99317

Date Analyzed: 2013-02-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.02	100	90 - 110	2013-02-28

Standard (CCV-1)

QC Batch: 99317

Date Analyzed: 2013-02-28

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.07	101	90 - 110	2013-02-28

Standard (ICV-1)

QC Batch: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99595

Date Analyzed: 2013-02-27

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	25.5	102	90 - 110	2013-02-27

Standard (CCV-1)

QC Batch: 99595

Date Analyzed: 2013-02-27

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	5.03	101	90 - 110	2013-02-27

Standard (CCV-2)

QC Batch: 99595

Date Analyzed: 2013-02-27

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	25.2	101	90 - 110	2013-02-27

Standard (CCV-2)

QC Batch: 99595

Date Analyzed: 2013-02-27

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	4.97	99	90 - 110	2013-02-27

Standard (CCV-1)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	25.2	101	90 - 110	2013-02-27

Standard (CCV-1)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	4.97	99	90 - 110	2013-02-27

Standard (CCV-2)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	24.9	100	90 - 110	2013-02-27

Standard (CCV-2)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	4.93	99	90 - 110	2013-02-27

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

Company Name: D&H Petroleum & Environmental Services
Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
Contact Person: Victor Ayala
Phone #: 915-859-8150
Cell #: 915-859-8150
Fax #: 915-585-3443
E-mail: yayala@dhpump.com

Project #: 407259
Project Name: Big Sky Dairy
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM 88048
Sampler Signature: *Chad R R*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
302123-1	833-08	1	250ml	X				X					2-26-13	13:58
L-2	833-08	1	250ml	X				X					2-26-13	13:58
	833-10	1		X				X						
302124	833 Lagoon	1	250ml	X				X					2-26-13	10:54
L-2	833 Lagoon	1	250ml	X				X					2-26-13	10:54
302125-1	833-05	1	250ml	X				X					2-26-13	10:54
L-2	833-05	1	250ml	X				X					2-26-13	10:06
302126-1	833-07	1	250ml	X				X					2-26-13	12:31
L-2	833-07	1	250ml	X				X					2-26-13	12:31

LAB USE ONLY	PH	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 Kjeldahl Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Phosphorus SM 4500	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		
					X	X	X	X	X	X		

Requisitioned By: *Angel N. Rivera* Date: 2-26-13 Time: 15:50
 Relinquished By: *Danny de Haro* Date: 2-26-13 Time: 15:50
 Received By: *ASlee* Date: 2-27-13 Time: 16:30
 Received at Laboratory By: *Danny de Haro* Date: 2-26-13 Time: 15:50
 Relinquished at Laboratory By: *ASlee* Date: 2-27-13 Time: 16:30

Lab Use Only
 Intact /
 Headspace Y / N
 Temp 0 / 20
 Log-in Review

Remarks: *ICE TDS LL NO3*
CHRY IN E.P.
AS: 48130490
Dry Weight Basis Required
TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

(Corrected Report)

Tim Hyde
 Bright Star Dairy
 13520 Stern Dr.
 P.O. Box 167
 Mesquite, NM, 88048

Report Date: March 15, 2013

Work Order: 13021320



DP: 70/86/340
 Project Location: 13520 Stern Dr, Mesquite, NM
 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
321008	340-01	water	2013-02-13	14:31	2013-02-13
321009	340-02	water	2013-02-13	14:45	2013-02-13
321010	70/86/340-01	water	2013-02-13	10:21	2013-02-13
321011	86/340-01	water	2013-02-13	08:51	2013-02-13
321012	340 Lagoon	water	2013-02-13	14:58	2013-02-13

Report Corrections (Work Order 13021320)

- 3/15/13: Corrected field code for sample 321010 per CoC.

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 29 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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QC Batch 99320 - CCV (1)	24
QC Batch 99320 - CCV (1)	25
QC Batch 99320 - CCV (1)	25

QC Batch 99320 - CCV (2)	25
QC Batch 99320 - CCV (2)	25
QC Batch 99320 - CCV (2)	25
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QC Batch 99323 - CCV (1)	26
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Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2013-02-13 and assigned to work order 13021320. Samples for work order 13021320 were received intact at a temperature of 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	84119	2013-02-14 at 20:08	99300	2013-02-14 at 20:08
Chloride (IC)	E 300.0	84133	2013-02-15 at 00:21	99320	2013-02-15 at 00:21
Chloride (IC)	E 300.0	84135	2013-02-15 at 04:18	99323	2013-02-15 at 04:18
NO3 (IC)	E 300.0	84133	2013-02-15 at 00:21	99320	2013-02-15 at 00:21
NO3 (IC)	E 300.0	84135	2013-02-15 at 04:18	99323	2013-02-15 at 04:18
P, Total	S 6010C	83875	2013-02-18 at 10:02	99013	2013-02-18 at 12:09
SO4 (IC)	E 300.0	84119	2013-02-14 at 20:08	99300	2013-02-14 at 20:08
SO4 (IC)	E 300.0	84133	2013-02-15 at 00:21	99320	2013-02-15 at 00:21
SO4 (IC)	E 300.0	84135	2013-02-15 at 04:18	99323	2013-02-15 at 04:18
TDS	SM 2540C	83893	2013-02-15 at 10:00	99018	2013-02-15 at 10:00
TKN	E 351.3	83850	2013-02-15 at 08:15	98971	2013-02-15 at 01:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13021320 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: 321008 - 340-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	711	711	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321008 - 340-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99320 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84133 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	27.0	27.0	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321008 - 340-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	511	511	<1.29	mg/L	50	1.29	2.5	0.0258

Sample: 321008 - 340-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3340	3340	<5.00	mg/L	1	5.00	5	5

Sample: 321008 - 340-01

Laboratory: Lubbock

Analysis: TKN

QC Batch: 98971

Prep Batch: 83850

Analytical Method: E 351.3

Date Analyzed: 2013-02-15

Sample Preparation: 2013-02-15

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321009 - 340-02

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99320

Prep Batch: 84133

Analytical Method: E 300.0

Date Analyzed: 2013-02-15

Sample Preparation: 2013-02-15

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	805	805	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321009 - 340-02

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99320

Prep Batch: 84133

Analytical Method: E 300.0

Date Analyzed: 2013-02-15

Sample Preparation: 2013-02-15

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	81.6	81.6	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 321009 - 340-02

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99320 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84133 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1	419	419	<0.258	mg/L	10	0.258	2.5	0.0258

Sample: 321009 - 340-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3550	3550	<5.00	mg/L	1	5.00	5	5

Sample: 321009 - 340-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98971 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83850 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321010 - 70/86/340-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99320 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84133 Sample Preparation: 2013-02-15 Prepared By: JR

continued . . .

sample 321010 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	2170	2170	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321010 - 70/86/340-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99320 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84133 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	16.6	16.6	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321010 - 70/86/340-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99320 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84133 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	1970	1970	<1.29	mg/L	50	1.29	2.5	0.0258

Sample: 321010 - 70/86/340-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	6660	6660	<5.00	mg/L	1	5.00	5	5

Sample: 321010 - 70/86/340-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98971 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83850 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321011 - 86/340-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	571	571	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321011 - 86/340-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	12.2	12.2	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321011 - 86/340-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	895	895	<1.29	mg/L	50	1.29	2.5	0.0258

Sample: 321011 - 86/340-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2780	2780	<5.00	mg/L	1	5.00	5	5

Sample: 321011 - 86/340-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98971 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83850 Sample Preparation: 2013-02-15 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321012 - 340 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1390	1390	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321012 - 340 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	2.92	2.92	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321012 - 340 Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 99013 Date Analyzed: 2013-02-18 Analyzed By: RR
 Prep Batch: 83875 Sample Preparation: 2013-02-18 Prepared By: KV

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		2	90.9	90.9	<0.0481	mg/L	1	0.0481	0.5	0.0481

Sample: 321012 - 340 Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR
 Prep Batch: 84135 Sample Preparation: 2013-02-15 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1	639	639	<1.29	mg/L	50	1.29	2.5	0.0258

Sample: 321012 - 340 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	6700	6700	<5.00	mg/L	1	5.00	5	5

Sample: 321012 - 340 Lagoon

Laboratory: Lubbock

Analysis: TKN

QC Batch: 98971

Prep Batch: 83850

Analytical Method: E 351.3

Date Analyzed: 2013-02-15

Sample Preparation: 2013-02-15

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N		2	336	336	<8.60	mg/L	5	8.60	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 98971
Prep Batch: 83850Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99013
Prep Batch: 83875Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.0481	mg/L	0.0481

Method Blank (1)

QC Batch: 99018
Prep Batch: 83893Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99300
Prep Batch: 84119Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)QC Batch: 99300
Prep Batch: 84119Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0258	mg/L	0.0258

Method Blank (1)QC Batch: 99320
Prep Batch: 84133Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)QC Batch: 99320
Prep Batch: 84133Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99320
Prep Batch: 84133Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0258	mg/L	0.0258

Method Blank (1)QC Batch: 99323
Prep Batch: 84135Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.36	mg/L	0.0508

Method Blank (1)QC Batch: 99323
Prep Batch: 84135Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99323
Prep Batch: 84135Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0258	mg/L	0.0258

Duplicate (1) Duplicated Sample: 321179QC Batch: 99018
Prep Batch: 83893Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: DL
Prepared By: DL

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3580	3580	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99013
Prep Batch: 83875Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: RR
Prepared By: KV

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Phosphorous		2	0.518	mg/L	1	0.500	<0.0481	104	85 - 115

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Phosphorous		2	0.496	mg/L	1	0.500	<0.0481	99	85 - 115	4	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: 99018
Prep Batch: 83893Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: DL
Prepared By: DL

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 321011

QC Batch: 98971
Prep Batch: 83850Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: AK
Prepared By: AK

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	47.6	mg/L	1	50.0	<1.72	95	45.3 - 107

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.72	92	45.3 - 107	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: 321041

QC Batch: 99013 Date Analyzed: 2013-02-18 Analyzed By: RR
Prep Batch: 83875 QC Preparation: 2013-02-18 Prepared By: KV

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Phosphorous		2	0.511	mg/L	1	0.500	<0.0481	102	75 - 125

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Phosphorous		2	0.515	mg/L	1	0.500	<0.0481	103	75 - 125	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: 321008

QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 84119 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2190	mg/L	55.6	1390	711	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2170	mg/L	55.6	1390	711	105	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: 321008

QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 84119 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1890	mg/L	55.6	1390	511	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
Sulfate		1	1870	mg/L	55.6	1390	511	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: 321009

QC Batch: 99320 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84133 QC Preparation: 2013-02-15 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2270	mg/L	55.6	1390	805	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	2260	mg/L	55.6	1390	805	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: 321009

QC Batch: 99320 Date Analyzed: 2013-02-15 Analyzed By: JR
Prep Batch: 84133 QC Preparation: 2013-02-15 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	347	mg/L	55.6	278	81.6	95	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	348	mg/L	55.6	278	81.6	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: 321009QC Batch: 99320
Prep Batch: 84133Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1720	mg/L	55.6	1390	419	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	1710	mg/L	55.6	1390	419	93	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: 321011QC Batch: 99323
Prep Batch: 84135Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1990	mg/L	55.6	1390	571	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	2000	mg/L	55.6	1390	571	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: 321011QC Batch: 99323
Prep Batch: 84135Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	275	mg/L	55.6	278	12.2	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	279	mg/L	55.6	278	12.2	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: 321011

QC Batch: 99323
Prep Batch: 84135

Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	2280	mg/L	55.6	1390	895	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	2290	mg/L	55.6	1390	895	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: 98971

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (CCV-1)

QC Batch: 98971

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (ICV-1)

QC Batch: 99013

Date Analyzed: 2013-02-18

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.19	104	90 - 110	2013-02-18

Standard (CCV-1)

QC Batch: 99013

Date Analyzed: 2013-02-18

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.17	103	90 - 110	2013-02-18

Standard (CCV-1)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	24.8	99	90 - 110	2013-02-14

Standard (CCV-1)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	2013-02-14

Standard (CCV-2)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	24.5	98	90 - 110	2013-02-14

Standard (CCV-2)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	2013-02-14

Standard (CCV-1)

QC Batch: 99320 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-1)

QC Batch: 99320

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-1)

QC Batch: 99320

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-2)

QC Batch: 99320

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-2)

QC Batch: 99320

Date Analyzed: 2013-02-15

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	2013-02-15

Standard (CCV-2)

QC Batch: 99320 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-1)

QC Batch: 99323 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-1)

QC Batch: 99323 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-1)

QC Batch: 99323 Date Analyzed: 2013-02-15 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	2013-02-15

Standard (CCV-2)

QC Batch: 99323 Date Analyzed: 2013-02-15 Analyzed By: JR

Report Date: March 15, 2013

Work Order: 13021320
Bright Star Dairy

Page Number: 27 of 29
13520 Stern Dr, Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2013-02-15

Standard (CCV-2)

QC Batch: 99323

Date Analyzed: 2013-02-15

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	4.78	96	90 - 110	2013-02-15

Standard (CCV-2)

QC Batch: 99323

Date Analyzed: 2013-02-15

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	2013-02-15

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Trace Analysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: **DiK Petroleum & Envin. Services**
 Address: **1221 Tower Tr. In. El Paso Tx 79907**
 Contact Person: **Victor Ayala**
 Invoice to: **Tim Hyde/Edmond DePuyter**
 (if different from above)
 Project #: **407200**
 Project Location (including state): **Bright Star Dairy, 13520 Stern Dr. Mesquite, MN**
 Project Name: **Bright Star Dairy**
 Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		REMARKS:	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE		TIME
321008-1	340-01	1	2 gal	X			X						2-13-13	14:31	ANALYSIS REQUEST (Circle or Specify Method No.) 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 GC/MS Vol. 8260 / 624 GC/MS Semi. Vol. 8270 / 625 PCB's 8082 / 608 Pesticides 8081 / 608 BOD, TSS, pH Moisture Content Cl, F1, S04, NO3, NO2, Alkalinity Na, Ca, Mg, K, TDS, EC TKN sm 4500 Horg 6 Nitrate as Nitrogen EPA 300.0 Chloride EPA Method 800.0 Sulfate EPA Method 800.0 Turn Around Time if different from standard
321009-1	340-01	1		X			X						2-13-13	14:31	
321010-1	70/86/340-01	1		X			X						2-13-13	14:45	
321011-1	80/340-01	1		X			X						2-13-13	10:21	
321012-1	80/340-01	1		X			X						2-13-13	8:51	
321021-1	340 L4500n	1		X			X						2-13-13	14:58	
321022-1	340 L4500n	1		X			X						2-13-13	14:58	
321023-1	340 L4500n	1		X			X						2-13-13	14:58	
321024-1	340 L4500n	1		X			X						2-13-13	14:58	
321025-1	340 L4500n	1		X			X						2-13-13	14:58	

Relinquished by: **David Lacey** Company: **DLH** Date: **2-13-13** Time: **16:30**
 Relinquished by: **David Lacey** Company: **DLH** Date: **2-13-13** Time: **15:25**
 Relinquished by: **David Lacey** Company: **DLH** Date: **2-13-13** Time: **15:25**

Carrier # **25 48130479**
 Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.
 ORIGINAL COPY



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 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.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: March 15, 2013

Work Order: 13022829



DP: 833
Project Location: 17800 Stern Drive, Mesquite, NM 88048
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
322283	833-9	water	2013-02-28	08:33	2013-02-28
322284	833-10	water	2013-02-28	10:03	2013-02-28

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2013-02-28 and assigned to work order 13022829. Samples for work order 13022829 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	84434	2013-03-01 at 20:15	99659	2013-03-01 at 20:15
NO3 (IC)	E 300.0	84434	2013-03-01 at 20:15	99659	2013-03-01 at 20:15
TDS	SM 2540C	84315	2013-03-05 at 08:00	99520	2013-03-05 at 08:00
TKN	SM 4500-NH3 B,C	84255	2013-03-06 at 09:52	99481	2013-03-06 at 14:04

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 13022829 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.

This report contains 2 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
1. 99659 Method Blank-1	Chloride	MI4	Instrument software integrated improperly
2. 99659 Method Blank-1	Chloride	MI5	Baseline correction

Analytical Report

Sample: 322283 - 833-9

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99659 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84434 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	MI4,MI5	1	876	876	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322283 - 833-9

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99659 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84434 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	101	101	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 322283 - 833-9

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4060	4060	<5.00	mg/L	1	5.00	5	5

Sample: 322283 - 833-9

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99481 Date Analyzed: 2013-03-06 Analyzed By: AK
 Prep Batch: 84255 Sample Preparation: 2013-03-06 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322284 - 833-10

Laboratory: El Paso

Analysis: Chloride (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 99659

Date Analyzed: 2013-03-01

Analyzed By: JR

Prep Batch: 84434

Sample Preparation: 2013-03-01

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	M14,M15	1	689	689	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322284 - 833-10

Laboratory: El Paso

Analysis: NO3 (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 99659

Date Analyzed: 2013-03-01

Analyzed By: JR

Prep Batch: 84434

Sample Preparation: 2013-03-01

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	4.19	4.19	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322284 - 833-10

Laboratory: El Paso

Analysis: TDS

Analytical Method: SM 2540C

Prep Method: N/A

QC Batch: 99520

Date Analyzed: 2013-03-05

Analyzed By: DL

Prep Batch: 84315

Sample Preparation: 2013-03-05

Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2640	2640	<5.00	mg/L	1	5.00	5	5

Sample: 322284 - 833-10

Report Date: March 15, 2013

Work Order: 13022829
Big Sky Dairy

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17800 Stern Drive, Mesquite, NM 88048

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99481

Prep Batch: 84255

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-03-06

Sample Preparation: 2013-03-06

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99481
Prep Batch: 84255Date Analyzed: 2013-03-06
QC Preparation: 2013-03-06Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99520
Prep Batch: 84315Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99659
Prep Batch: 84434Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	MI4,MI5	1	1.37	mg/L	0.0508

Method Blank (1)

QC Batch: 99659
Prep Batch: 84434Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: JR
Prepared By: JR

Report Date: March 15, 2013

Work Order: 13022829
Big Sky Dairy

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17800 Stern Drive, Mesquite, NM 88048

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322335

QC Batch: 99520

Date Analyzed: 2013-03-05

Analyzed By: DL

Prep Batch: 84315

QC Preparation: 2013-03-05

Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3730	3730	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99520
Prep Batch: 84315Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	988	mg/L	1	1000	<5.00	99	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	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.

Matrix Spike (MS-1) Spiked Sample: 322287

QC Batch: 99481
Prep Batch: 84255Date Analyzed: 2013-03-06
QC Preparation: 2013-03-06Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.72	91	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.72	85	10 - 151	6	20

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

Matrix Spike (MS-1) Spiked Sample: 322284

QC Batch: 99659
Prep Batch: 84434Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2180	mg/L	55.6	1390	689	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2180	mg/L	55.6	1390	689	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: 322284

QC Batch: 99659
Prep Batch: 84434

Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	279	mg/L	55.6	278	4.19	99	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	280	mg/L	55.6	278	4.19	99	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: 99481

Date Analyzed: 2013-03-06

Analyzed By: AK

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	2013-03-06

Standard (CCV-1)

QC Batch: 99481

Date Analyzed: 2013-03-06

Analyzed By: AK

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	2013-03-06

Standard (CCV-1)

QC Batch: 99659

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.3	101	90 - 110	2013-03-01

Standard (CCV-1)

QC Batch: 99659

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.02	100	90 - 110	2013-03-01

Standard (CCV-2)

QC Batch: 99659

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2013-03-01

Standard (CCV-2)

QC Batch: 99659

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2013-03-01

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

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: yavalia@dhpump.com
 Contact Person: Victor Ayala

Invoice to (if different from above): George Segura 575-233-3620
 Project #: 407259
 Project Name: Big Sky Dairy
 Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM
 Sampler Signature: [Signature]

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
833-9		1	250ml	X				X		X			2-28-13	8:33
833-9		1	250ml	X				X		X			2-28-13	8:33
833-10		1	250ml	X				X		X			2-28-13	10:03
833-10		1	250ml	X				X		X			2-28-13	10:03
833-Lagoon		1		X				X		X				
833-Lagoon		2		X				X		X				

ANALYSIS REQUEST	Lab Use Only	Remarks:
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	Intact <input checked="" type="checkbox"/> N Headspace Y / N Temp <input checked="" type="checkbox"/> / Ice Log-in Review <input checked="" type="checkbox"/>	NO ₃ , Cl, TDS, Dry Weight Basis Required TRRP Report Required

Relinquished By: [Signature] Date: 2-28-13 Time: 15:08
 Relinquished By: [Signature] Date: 3-1-13 Time: 16:30
 Received By: [Signature] Date: 2-28-13 Time: 15:08
 Received at Laboratory By: [Signature] Date: 3-2-13 Time: 10:00



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: March 15, 2013

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 13030116



Project Location: Various Dairies, Dona Ana County, NM
 Project Name: Dona Ana Dairies Consortium
 Project #: DAD

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
322332	DAD-03	water	2013-03-01	10:48	2013-03-01
322333	DAD-02	water	2013-03-01	10:09	2013-03-01
322334	DAD-11	water	2013-03-01	08:27	2013-03-01
322335	DAD-14	water	2013-03-01	09:23	2013-03-01
322336	DAD-04	water	2013-03-01	11:39	2013-03-01

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-03-01 and assigned to work order 13030116. Samples for work order 13030116 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	84437	2013-03-02 at 04:26	99666	2013-03-02 at 04:26
Chloride (IC)	E 300.0	84439	2013-03-13 at 08:31	99667	2013-03-02 at 08:31
NO3 (IC)	E 300.0	84437	2013-03-02 at 04:26	99666	2013-03-02 at 04:26
NO3 (IC)	E 300.0	84439	2013-03-13 at 08:31	99667	2013-03-02 at 08:31
TDS	SM 2540C	84315	2013-03-05 at 08:00	99520	2013-03-05 at 08:00
TKN	E 351.3	84212	2013-03-05 at 08:18	99459	2013-03-05 at 02:00

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 13030116 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.

This report contains 4 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
1. 99666 Method Blank-1	Chloride	MI4	Instrument software integrated improperly
2. 99666 Method Blank-1	Chloride	MI5	Baseline correction
3. 99667 Method Blank-1	Chloride	MI4	Instrument software integrated improperly
4. 99667 Method Blank-1	Chloride	MI5	Baseline correction

Analytical Report

Sample: 322332 - DAD-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99666 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84437 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	MI4,MI5	1	1220	1220	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322332 - DAD-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99666 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84437 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	0.721	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322332 - DAD-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3720	3720	<5.00	mg/L	1	5.00	5	5

Sample: 322332 - DAD-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99459 Date Analyzed: 2013-03-05 Analyzed By: AK
 Prep Batch: 84212 Sample Preparation: 2013-03-05 Prepared By: AK

Report Date: March 15, 2013

Work Order: 13030116
 Dona Ana Dairies Consortium

Page Number: 6 of 20
 Various Dairies, Dona Ana County, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322333 - DAD-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99666 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84437 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	MI4,MI5	1	357	357	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 322333 - DAD-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99666 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84437 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	8.52	8.52	<0.0491	mg/L	1	0.0491	0.5	0.0491

Sample: 322333 - DAD-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1520	1520	<5.00	mg/L	1	5.00	5	5

Sample: 322333 - DAD-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99459 Date Analyzed: 2013-03-05 Analyzed By: AK
 Prep Batch: 84212 Sample Preparation: 2013-03-05 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322334 - DAD-11

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99666 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84437 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	MI4,MI5	1	1190	1190	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322334 - DAD-11

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99666 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84437 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	14.6	14.6	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322334 - DAD-11

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

continued . . .

sample 322334 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3600	3600	<5.00	mg/L	1	5.00	5	5

Sample: 322334 - DAD-11

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99459

Prep Batch: 84212

Analytical Method: E 351.3

Date Analyzed: 2013-03-05

Sample Preparation: 2013-03-05

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322335 - DAD-14

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99667

Prep Batch: 84439

Analytical Method: E 300.0

Date Analyzed: 2013-03-02

Sample Preparation: 2013-03-02

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	M14,M15	1	1130	1130	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322335 - DAD-14

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99667

Prep Batch: 84439

Analytical Method: E 300.0

Date Analyzed: 2013-03-02

Sample Preparation: 2013-03-02

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	42.0	42.0	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322335 - DAD-14

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3730	3730	<5.00	mg/L	1	5.00	5	5

Sample: 322335 - DAD-14

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99459 Date Analyzed: 2013-03-05 Analyzed By: AK
 Prep Batch: 84212 Sample Preparation: 2013-03-05 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	16.8	16.8	<1.72	mg/L	1	1.72	10	1.72

Sample: 322336 - DAD-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99667 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84439 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	M14, M15	1	510	510	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322336 - DAD-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99667 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84439 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	2.12	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322336 - DAD-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2090	2090	<5.00	mg/L	1	5.00	5	5

Sample: 322336 - DAD-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 99459 Date Analyzed: 2013-03-05 Analyzed By: AK
 Prep Batch: 84212 Sample Preparation: 2013-03-05 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99459
Prep Batch: 84212Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99520
Prep Batch: 84315Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99666
Prep Batch: 84437Date Analyzed: 2013-03-02
QC Preparation: 2013-03-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	MI4,MI5	1	1.36	mg/L	0.0508

Method Blank (1)

QC Batch: 99666
Prep Batch: 84437Date Analyzed: 2013-03-02
QC Preparation: 2013-03-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99667 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84439 QC Preparation: 2013-03-13 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	MI4,MI5	1	1.35	mg/L	0.0508

Method Blank (1)

QC Batch: 99667 Date Analyzed: 2013-03-02 Analyzed By: JR
 Prep Batch: 84439 QC Preparation: 2013-03-13 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322335

QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 QC Preparation: 2013-03-05 Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3730	3730	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99520
Prep Batch: 84315Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	988	mg/L	1	1000	<5.00	99	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	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.

Matrix Spike (MS-1) Spiked Sample: 322336

QC Batch: 99459
Prep Batch: 84212Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	45.3 - 107

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	45.3 - 107	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: 323333

QC Batch: 99666
Prep Batch: 84437Date Analyzed: 2013-03-02
QC Preparation: 2013-03-02Analyzed By: JR
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	357	101	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec. Limit	RPD	RPD Limit
			Result	Units			Result	Rec.			
Chloride		1	1760	mg/L	55.6	1390	357	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: 323333

QC Batch: 99666
Prep Batch: 84437

Date Analyzed: 2013-03-02
QC Preparation: 2013-03-02

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec. Limit
			Result	Units			Result	Rec.	
Nitrate-N		1	282	mg/L	55.6	278	8.52	98	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec. Limit	RPD	RPD Limit
			Result	Units			Result	Rec.			
Nitrate-N		1	281	mg/L	55.6	278	8.52	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: 322336

QC Batch: 99667
Prep Batch: 84439

Date Analyzed: 2013-03-02
QC Preparation: 2013-03-13

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec. Limit
			Result	Units			Result	Rec.	
Chloride		1	1940	mg/L	55.6	1390	510	103	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec. Limit	RPD	RPD Limit
			Result	Units			Result	Rec.			
Chloride		1	1950	mg/L	55.6	1390	510	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: 322336

QC Batch: 99667
Prep Batch: 84439

Date Analyzed: 2013-03-02
QC Preparation: 2013-03-13

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	274	mg/L	55.6	278	<2.73	98	90 - 110

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	275	mg/L	55.6	278	<2.73	98	90 - 110	0	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 99459

Date Analyzed: 2013-03-05

Analyzed By: AK

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	2013-03-05

Standard (CCV-1)

QC Batch: 99459

Date Analyzed: 2013-03-05

Analyzed By: AK

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	2013-03-05

Standard (CCV-1)

QC Batch: 99666

Date Analyzed: 2013-03-02

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	24.8	99	90 - 110	2013-03-02

Standard (CCV-1)

QC Batch: 99666

Date Analyzed: 2013-03-02

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	4.94	99	90 - 110	2013-03-02

Standard (CCV-2)

QC Batch: 99666 Date Analyzed: 2013-03-02 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	24.7	99	90 - 110	2013-03-02

Standard (CCV-2)

QC Batch: 99666 Date Analyzed: 2013-03-02 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	4.91	98	90 - 110	2013-03-02

Standard (CCV-1)

QC Batch: 99667 Date Analyzed: 2013-03-02 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	24.7	99	90 - 110	2013-03-02

Standard (CCV-1)

QC Batch: 99667 Date Analyzed: 2013-03-02 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	4.91	98	90 - 110	2013-03-02

Standard (CCV-2)

QC Batch: 99667 Date Analyzed: 2013-03-02 Analyzed By: JR

Report Date: March 15, 2013

Work Order: 13030116
Dona Ana Dairies Consortium

Page Number: 18 of 20
Various Dairies, Dona Ana County, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-03-02

Standard (CCV-2)

QC Batch: 99667

Date Analyzed: 2013-03-02

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	4.90	98	90 - 110	2013-03-02

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Trace Analysis, Inc.
 email: lab@traceanalysis.com
 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424
 Tel (806) 794-1296 Fax (806) 794-1298
 1 (800) 378-1296
 5002 Basin Street, Suite A1 Midland, Texas 79703
 Tel (432) 689-6301 Fax (432) 689-6313
 1 (888) 588-3443
 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: **D:H Environmental**
 Address: **1221 Tower Trail Ln, El Paso, Tx 79907**
 Contact Person: **Victor Ayala**
 Invoice to: **Dona Ang Dairies, P.O. Box 10, Mesquite, NM 88048**
 Project #: **407267**
 Project Location (including state): **Dona Ang Dairies, Dona Ang County, NM**
 Project Name: **Dona Ang Dairies Consortium**
 Sampler Signature: **[Signature]**
 Phone #: **915-859-8150**
 Fax #: **915-859-8150**
 E-mail: **vayala@dhpump.com**

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
322332-1	DAD-03	1	250ml X				X					3-13	10:48
↓	DAD-03	1	250ml X				X					3-13	10:48
322333-1	DAD-02	1	250ml X				X					3-13	10:09
↓	DAD-02	1	250ml X				X					3-13	10:09
4-1	DAD-11	1	250ml X				X					3-13	8:27
↓	DAD-11	1	250ml X				X					3-13	8:27
5-1	DAD-14	1	250ml X				X					3-13	9:23
↓	DAD-14	1	250ml X				X					3-13	9:23
6-1	DAD-04	1	250ml X				X					3-13	11:39
↓	DAD-04	1	250ml X				X					3-13	11:39

Relinquished by: **Angel Rivera** Company: **D:H** Date: **3-13** Time: **12:21**
 Relinquished by: **[Signature]** Company: **[Signature]** Date: **3/1/13** Time: **12:21**
 Relinquished by: **[Signature]** Company: **TH** Date: **3-2-13** Time: **10:00**
 Relinquished by: **[Signature]** Company: **[Signature]** Date: **3-1-13** Time: **16:50**

Received by: **[Signature]** Date: **3/1/13** Time: **12:21**
 Received by: **[Signature]** Date: **3-2-13** Time: **10:00**
 Received by: **[Signature]** Date: **3-1-13** Time: **16:50**

LAB USE: **ONLY**
 Intact: N
 Headspace: Y / N / NA
 Login-Review: **DH**
 5-13

REMARKS: **Cl, NO₃, TDS**

Dry Weight Basis Required
 TRRP Report Required
 Check if Special Reporting Limits Are Needed

Carrier # **2548130493**

ANALYSIS REQUEST
 (Circle or Specify Method No.)

Method No.	Analysis	Result
TKN SM 4500 NORG C	TKN SM 4500 NORG C	X
Nitrates EPA 300	Nitrates EPA 300	X
Chloride EPA 300	Chloride EPA 300	X
TD5 SM 2540 C MOD	TD5 SM 2540 C MOD	X
Na, Ca, Mg, K, TDS, EC	Na, Ca, Mg, K, TDS, EC	X
Cl, F ₁ , SO ₄ , NO ₃ , NO ₂ , Alkalinity	Cl, F ₁ , SO ₄ , NO ₃ , NO ₂ , Alkalinity	X
Moisture Content	Moisture Content	
BOD, TSS, pH	BOD, TSS, pH	
Pesticides 8081 / 608	Pesticides 8081 / 608	
PCBs 8082 / 608	PCBs 8082 / 608	
GC/MS Semi. Vol. 8270 / 625	GC/MS Semi. Vol. 8270 / 625	
GC/MS Vol. 8260 / 624	GC/MS Vol. 8260 / 624	
RCI	RCI	
TCLP Pesticides	TCLP Pesticides	
TCLP Semi Volatiles	TCLP Semi Volatiles	
TCLP Volatiles	TCLP Volatiles	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
PAH 8270 / 625	PAH 8270 / 625	
TPH 8015 GRO / DRO / TVHC	TPH 8015 GRO / DRO / TVHC	
TPH 418.1 / TX1005 / TX1005 Ex(C35)	TPH 418.1 / TX1005 / TX1005 Ex(C35)	
BTEX 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	
MTBE 8021 / 602 / 8260 / 624	MTBE 8021 / 602 / 8260 / 624	

Turn Around Time if different from standard



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: March 15, 2013

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 13022830



Project Location: Various Dairies, Dona Ana County, NM
 Project Name: Dona Ana Dairies Consortium
 Project #: DAD

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
322285	DAD-01	water	2013-02-28	11:43	2013-02-28
322286	DAD-13	water	2013-02-28	13:19	2013-02-28
322287	DAD-12	water	2013-02-28	14:19	2013-02-28

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

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

Notes:

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

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

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-02-28 and assigned to work order 13022830. Samples for work order 13022830 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	84435	2013-03-02 at 00:20	99661	2013-03-13 at 00:20
NO3 (IC)	E 300.0	84435	2013-03-02 at 00:20	99661	2013-03-13 at 00:20
TDS	SM 2540C	84315	2013-03-05 at 08:00	99520	2013-03-05 at 08:00
TKN	SM 4500-NH3 B,C	84255	2013-03-06 at 09:52	99481	2013-03-06 at 14:04

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 13022830 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: 322285 - DAD-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99661 Date Analyzed: 2013-03-13 Analyzed By: JR
 Prep Batch: 84435 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	469	469	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 322285 - DAD-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99661 Date Analyzed: 2013-03-13 Analyzed By: JR
 Prep Batch: 84435 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	10.0	10.0	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322285 - DAD-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1740	1740	<5.00	mg/L	1	5.00	5	5

Sample: 322285 - DAD-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99481 Date Analyzed: 2013-03-06 Analyzed By: AK
 Prep Batch: 84255 Sample Preparation: 2013-03-06 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322286 - DAD-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99661 Date Analyzed: 2013-03-13 Analyzed By: JR
 Prep Batch: 84435 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	582	582	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322286 - DAD-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99661 Date Analyzed: 2013-03-13 Analyzed By: JR
 Prep Batch: 84435 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	5.63	5.63	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322286 - DAD-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1970	1970	<5.00	mg/L	1	5.00	5	5

Sample: 322286 - DAD-13

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99481 Date Analyzed: 2013-03-06 Analyzed By: AK
 Prep Batch: 84255 Sample Preparation: 2013-03-06 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322287 - DAD-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99661 Date Analyzed: 2013-03-13 Analyzed By: JR
 Prep Batch: 84435 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	688	688	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322287 - DAD-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99661 Date Analyzed: 2013-03-13 Analyzed By: JR
 Prep Batch: 84435 Sample Preparation: 2013-03-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	22.8	22.8	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322287 - DAD-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99520 Date Analyzed: 2013-03-05 Analyzed By: DL
 Prep Batch: 84315 Sample Preparation: 2013-03-05 Prepared By: DL

continued . . .

sample 322287 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2820	2820	<5.00	mg/L	1	5.00	5	5

Sample: 322287 - DAD-12

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99481

Prep Batch: 84255

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-03-06

Sample Preparation: 2013-03-06

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99481
Prep Batch: 84255Date Analyzed: 2013-03-06
QC Preparation: 2013-03-06Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99520
Prep Batch: 84315Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99661
Prep Batch: 84435Date Analyzed: 2013-03-13
QC Preparation: 2013-03-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.38	mg/L	0.0508

Method Blank (1)

QC Batch: 99661
Prep Batch: 84435Date Analyzed: 2013-03-13
QC Preparation: 2013-03-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322335

QC Batch: 99520
Prep Batch: 84315

Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05

Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3730	3730	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99520
 Prep Batch: 84315

Date Analyzed: 2013-03-05
 QC Preparation: 2013-03-05

Analyzed By: DL
 Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	988	mg/L	1	1000	<5.00	99	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	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.

Matrix Spike (MS-1) Spiked Sample: 322287

QC Batch: 99481
 Prep Batch: 84255

Date Analyzed: 2013-03-06
 QC Preparation: 2013-03-06

Analyzed By: AK
 Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.72	91	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.72	85	10 - 151	6	20

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

Matrix Spike (MS-1) Spiked Sample: 322285

QC Batch: 99661
 Prep Batch: 84435

Date Analyzed: 2013-03-13
 QC Preparation: 2013-03-02

Analyzed By: JR
 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	469	102	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec.		RPD
			Result	Units			Result	Rec.	Limit	RPD	
Chloride		1	1890	mg/L	55.6	1390	469	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: 322285

QC Batch: 99661
 Prep Batch: 84435

Date Analyzed: 2013-03-13
 QC Preparation: 2013-03-02

Analyzed By: JR
 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec.	
			Result	Units			Result	Rec.	Limit	
Nitrate-N		1	287	mg/L	55.6	278	10	100	90 - 110	

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec.		RPD
			Result	Units			Result	Rec.	Limit	RPD	
Nitrate-N		1	287	mg/L	55.6	278	10	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: 99481

Date Analyzed: 2013-03-06

Analyzed By: AK

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	2013-03-06

Standard (CCV-1)

QC Batch: 99481

Date Analyzed: 2013-03-06

Analyzed By: AK

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	2013-03-06

Standard (CCV-1)

QC Batch: 99661

Date Analyzed: 2013-03-13

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	2013-03-13

Standard (CCV-1)

QC Batch: 99661

Date Analyzed: 2013-03-13

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	2013-03-13

Standard (CCV-2)

QC Batch: 99661			Date Analyzed: 2013-03-13				Analyzed By: JR	
Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-03-13

Standard (CCV-2)

QC Batch: 99661			Date Analyzed: 2013-03-13				Analyzed By: JR	
Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2013-03-13

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Trace Analysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
T (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: D&H Environmental Phone #: 915-859-8150
 Address: (Street, City, Zip) 1221 Tower Trail N. El Paso, Tx 79907 Fax #:
 Contact Person: Victor Ayala E-mail: vayala@d&h.com
 Invoice to: Daia Ann Dairies vinda armstrong
 (if different from above) Box 10, Mesquite, Nm 88048 575-233-3620
 Project #: 407267 Project Name: Daia Ann Dairies Consortium
 Project Location (including state): Various Dairies, Daia Ann County, Nm Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
322285-1	DAD-01	1	250ml X					X			X			2-28-13	11:43
↓ 2	DAD-01	1	250ml X					X			X			2-28-13	11:43
322286-1	DAD-13	1	250ml X					X			X			2-28-13	13:19
↓ 2	DAD-13	1	250ml X					X			X			2-28-13	13:19
322287-1	DAD-12	1	250ml X					X			X			2-28-13	14:19
↓ 2	DAD-12	1	250ml X					X			X			2-28-13	14:19

Relinquished by: [Signature] Company: D&H Date: 2-28-13 Time: 15:08 INST: 0
 OBS: 0
 COR: 1

Relinquished by: [Signature] Company: Murphy TA Date: 3-2-13 Time: 10:00 INST: FK
 OBS: 2.7
 COR: 2.7

Relinquished by: [Signature] Company: [Signature] Date: 3-1-13 Time: 1630 INST: 0
 OBS: 0
 COR: 0

ANALYSIS REQUEST (Circle or Specify Method No.)

<input type="checkbox"/>	MTBE	8021 / 602 / 8260 / 624
<input type="checkbox"/>	BTEX	8021 / 602 / 8260 / 624
<input type="checkbox"/>	TPH	418.1 / TX1005 / TX1005 Ex(C35)
<input type="checkbox"/>	TPH	8015 GRO / DRO / TVHC
<input type="checkbox"/>	PAH	8270 / 625
<input type="checkbox"/>	Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010/200.7
<input type="checkbox"/>	TCLP Metals	Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Volatiles	
<input type="checkbox"/>	TCLP Semi Volatiles	
<input type="checkbox"/>	TCLP Pesticides	
<input type="checkbox"/>	RCI	
<input type="checkbox"/>	GC/MS Vol.	8260 / 624
<input type="checkbox"/>	GC/MS Semi. Vol.	8270 / 625
<input type="checkbox"/>	PCB's	8082 / 608
<input type="checkbox"/>	Pesticides	8081 / 608
<input type="checkbox"/>	BOD, TSS, pH	
<input type="checkbox"/>	Moisture Content	
<input type="checkbox"/>	Cl, F1, S04, NO3, NO2, Alkalinity	
<input type="checkbox"/>	Na, Ca, Mg, K, TDS, EC	
<input checked="" type="checkbox"/>	TKN SM	4500 NOR6 C
<input type="checkbox"/>	Nitrates	EPA 300
<input type="checkbox"/>	Chloride	EPA 800
<input type="checkbox"/>	TDS	SM 2540 C MOD
<input type="checkbox"/>	Turn Around Time	if different from standard

REMARKS: Cl, TDS, NO₃ - 5 P

LAB USE: Ice ONLY

Intact Y N

Headspace Y N / NA

DPH 3-1-13

Log-in-Review

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: March 15, 2013

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 13030420



Project Location: Various Dairies, Dona Ana County, NM
 Project Name: Dona Ana Dairies Consortium
 Project #: DAD

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
322476	DAD-06	water	2013-03-04	11:30	2013-03-04
322477	DAD-08	water	2013-03-04	13:57	2013-03-04
322478	DAD-15	water	2013-03-04	10:17	2013-03-04
322479	DAD-19	water	2013-03-04	13:04	2013-03-04

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-03-04 and assigned to work order 13030420. Samples for work order 13030420 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	84479	2013-03-05 at 19:33	99712	2013-03-05 at 19:33
Chloride (IC)	E 300.0	84481	2013-03-14 at 23:54	99714	2013-03-05 at 23:54
NO3 (IC)	E 300.0	84479	2013-03-05 at 19:33	99712	2013-03-05 at 19:33
NO3 (IC)	E 300.0	84481	2013-03-14 at 23:54	99714	2013-03-05 at 23:54
TDS	SM 2540C	84344	2013-03-07 at 09:00	99550	2013-03-07 at 09:00
TKN	SM 4500-NH3 B,C	84279	2013-03-07 at 08:23	99507	2013-03-07 at 12:55

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13030420 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: 322476 - DAD-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99712 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84479 Sample Preparation: 2013-03-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	496	496	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322476 - DAD-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99712 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84479 Sample Preparation: 2013-03-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	7.66	7.66	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322476 - DAD-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1510	1510	<5.00	mg/L	1	5.00	5	5

Sample: 322476 - DAD-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

Report Date: March 15, 2013

Work Order: 13030420
 Dona Ana Dairies Consortium

Page Number: 6 of 19
 Various Dairies, Dona Ana County, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322477 - DAD-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99712 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84479 Sample Preparation: 2013-03-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	2280	2280	<5.08	mg/L	100	5.08	2.5	0.0508

Sample: 322477 - DAD-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99712 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84479 Sample Preparation: 2013-03-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	90.0	90.0	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 322477 - DAD-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	7060	7060	<5.00	mg/L	1	5.00	5	5

Sample: 322477 - DAD-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322478 - DAD-15

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 Sample Preparation: 2013-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	515	515	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322478 - DAD-15

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 Sample Preparation: 2013-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	5.10	5.10	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322478 - DAD-15

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

continued . . .

sample 322478 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1800	1800	<5.00	mg/L	1	5.00	5	5

Sample: 322478 - DAD-15

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322479 - DAD-19

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 Sample Preparation: 2013-03-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	986	986	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322479 - DAD-19

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 Sample Preparation: 2013-03-14 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	69.1	69.1	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 322479 - DAD-19

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3430	3430	<5.00	mg/L	1	5.00	5	5

Sample: 322479 - DAD-19

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99507
Prep Batch: 84279Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99550
Prep Batch: 84344Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99712
Prep Batch: 84479Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99712
Prep Batch: 84479Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 QC Preparation: 2013-03-14 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)

QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 QC Preparation: 2013-03-14 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322556

QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 QC Preparation: 2013-03-07 Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3530	3480	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99550
Prep Batch: 84344Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	996	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 322553

QC Batch: 99507
Prep Batch: 84279Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.72	87	10 - 151	8	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: 322476

QC Batch: 99712
Prep Batch: 84479Date Analyzed: 2013-03-05
QC Preparation: 2013-03-05Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1920	mg/L	55.6	1390	496	102	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1920	mg/L	55.6	1390	496	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: 322476

QC Batch: 99712 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84479 QC Preparation: 2013-03-05 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	280	mg/L	55.6	278	7.66	98	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	278	mg/L	55.6	278	7.66	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: 322548

QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 QC Preparation: 2013-03-14 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1740	mg/L	55.6	1390	351	100	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1730	mg/L	55.6	1390	351	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: 322548

QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 QC Preparation: 2013-03-14 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	<2.73	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	269	mg/L	55.6	278	<2.73	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: 99507

Date Analyzed: 2013-03-07

Analyzed By: AK

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	2013-03-07

Standard (CCV-1)

QC Batch: 99507

Date Analyzed: 2013-03-07

Analyzed By: AK

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	2013-03-07

Standard (CCV-1)

QC Batch: 99712

Date Analyzed: 2013-03-05

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	25.2	101	90 - 110	2013-03-05

Standard (CCV-1)

QC Batch: 99712

Date Analyzed: 2013-03-05

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	4.97	99	90 - 110	2013-03-05

Standard (CCV-2)

QC Batch: 99712 Date Analyzed: 2013-03-05 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	24.9	100	90 - 110	2013-03-05

Standard (CCV-2)

QC Batch: 99712 Date Analyzed: 2013-03-05 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	4.93	99	90 - 110	2013-03-05

Standard (CCV-1)

QC Batch: 99714 Date Analyzed: 2013-03-05 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	24.9	100	90 - 110	2013-03-05

Standard (CCV-1)

QC Batch: 99714 Date Analyzed: 2013-03-05 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	4.93	99	90 - 110	2013-03-05

Standard (CCV-2)

QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR

Report Date: March 15, 2013

Work Order: 13030420
Dona Ana Dairies Consortium

Page Number: 17 of 19
Various Dairies, Dona Ana County, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-03-05

Standard (CCV-2)

QC Batch: 99714

Date Analyzed: 2013-03-05

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	4.88	98	90 - 110	2013-03-05

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Trace Analysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquaic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: D:H Environmental Address: 1221 Tower Trail W. El Paso, TX 79907 Contact Person: Vicbr Ayala Invoice to: Dona Ann Dairies (If different from above) P.O. Box 10, Mesquite, NM 88048 Project #: 407267		Phone #: 915-959-8150 Fax #: E-mail: vayala@dhpump.com Linda Armstrong 575-233-3620 Project Name: Dona Ann Dairies Consortium Sampler Signature: <i>[Signature]</i>											
Project Location (including state): Various Dairies, Dona Ann County, NM		Project Location (including state): Various Dairies, Dona Ann County, NM											
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
22476-1	DAD-06	1	250ml X					X				3-4-13	11:30
↓ 2	DAD-06	1	250ml X					X				3-4-13	11:30
77-1	DAD-08	1	250ml X					X				3-4-13	13:57
↓ 2	DAD-08	1	250ml X					X				3-4-13	13:57
78-1	DAD-15	1	250ml X					X				3-4-13	10:17
↓ 2	DAD-15	1	250ml X					X				3-4-13	10:17
79-1	DAD-19	1	250ml X					X				3-4-13	13:04
↓ 2	DAD-19	1	250ml X					X				3-4-13	13:04

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Ex(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, F1, S04, NO3, NO2, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
TKN 5m 4500 NRP4 C	X
Nitrates EPA 300	X
Chloride EPA 300	XX
TDS 5m 2546 C MOD	XX
Turn Around Time if different from standard	Hold

Relinquished by: <i>[Signature]</i> Company: D:H Date: 3-4-13 Time: 15:09	Received by: <i>[Signature]</i> Company: D:H Date: 3-4-13 Time: 15:09	INST 422 OBS 1 COR 3	LAB USE ONLY Intac <input checked="" type="checkbox"/> / N Headspace Y / N / NA Log-in-Review <i>[Signature]</i> 3-4-13	REMARKS: NO ₃ , TDS, Cl in EP
Relinquished by: <i>[Signature]</i> Company: D:H Date: 3-4-13 Time: 16:30	Received by: <i>[Signature]</i> Company: D:H Date: 3-4-13 Time: 9:00	INST 41.3 OBS 2.3 COR 2.7		
Dry Weight Basis Required <input type="checkbox"/> TRRP Report Required <input type="checkbox"/> Check if Special Reporting Limits Are Needed <input type="checkbox"/>				



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: March 15, 2013

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 13030529



Project Location: Various Dairies, Dona Ana County, NM
 Project Name: Dona Ana Dairies Consortium
 Project #: DAD

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
322548	DAD-17	water	2013-03-05	08:22	2013-03-05
322549	DAD-18	water	2013-03-05	09:55	2013-03-05
322550	DAD-05	water	2013-03-05	10:45	2013-03-05
322551	DAD-16	water	2013-03-05	11:56	2013-03-05
322552	DAD-07	water	2013-03-05	13:39	2013-03-05

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 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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QC Batch 99715 - CCV (1)	19
QC Batch 99715 - CCV (1)	19
QC Batch 99715 - CCV (2)	19
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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-03-05 and assigned to work order 13030529. Samples for work order 13030529 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	84481	2013-03-14 at 23:54	99714	2013-03-05 at 23:54
Chloride (IC)	E 300.0	84482	2013-03-06 at 04:00	99715	2013-03-06 at 04:00
Chloride (IC)	E 300.0	84486	2013-03-06 at 14:15	99718	2013-03-06 at 14:15
NO3 (IC)	E 300.0	84481	2013-03-14 at 23:54	99714	2013-03-05 at 23:54
NO3 (IC)	E 300.0	84482	2013-03-06 at 04:00	99715	2013-03-06 at 04:00
NO3 (IC)	E 300.0	84486	2013-03-06 at 14:15	99718	2013-03-06 at 14:15
TDS	SM 2540C	84344	2013-03-07 at 09:00	99550	2013-03-07 at 09:00
TKN	SM 4500-NH3 B,C	84279	2013-03-07 at 08:23	99507	2013-03-07 at 12:55

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13030529 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.

This report contains 1 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
1. 99718 Method Blank-1	Sulfate	MI5	Baseline correction

Analytical Report

Sample: 322548 - DAD-17

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 Sample Preparation: 2013-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	351	351	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 322548 - DAD-17

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 Sample Preparation: 2013-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	2.06	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322548 - DAD-17

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1550	1550	<5.00	mg/L	1	5.00	5	5

Sample: 322548 - DAD-17

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322549 - DAD-18

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84482 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	712	712	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322549 - DAD-18

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84482 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	11.2	11.2	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322549 - DAD-18

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2700	2700	<5.00	mg/L	1	5.00	5	5

Sample: 322549 - DAD-18

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322550 - DAD-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84482 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	519	519	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322550 - DAD-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84482 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.246	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322550 - DAD-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

continued . . .

sample 322550 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2100	2100	<5.00	mg/L	1	5.00	5	5

Sample: 322550 - DAD-05

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99507

Prep Batch: 84279

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-03-07

Sample Preparation: 2013-03-07

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322551 - DAD-16

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99718

Prep Batch: 84486

Analytical Method: E 300.0

Date Analyzed: 2013-03-06

Sample Preparation: 2013-03-06

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	674	674	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322551 - DAD-16

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99718

Prep Batch: 84486

Analytical Method: E 300.0

Date Analyzed: 2013-03-06

Sample Preparation: 2013-03-06

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	2.55	2.55	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322551 - DAD-16

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2670	2670	<5.00	mg/L	1	5.00	5	5

Sample: 322551 - DAD-16

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322552 - DAD-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99718 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84486 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	724	724	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322552 - DAD-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99718 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84486 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	8.15	8.15	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322552 - DAD-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99550 Date Analyzed: 2013-03-07 Analyzed By: DL
 Prep Batch: 84344 Sample Preparation: 2013-03-07 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2740	2740	<5.00	mg/L	1	5.00	5	5

Sample: 322552 - DAD-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99507 Date Analyzed: 2013-03-07 Analyzed By: AK
 Prep Batch: 84279 Sample Preparation: 2013-03-07 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99507
Prep Batch: 84279Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99550
Prep Batch: 84344Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99714
Prep Batch: 84481Date Analyzed: 2013-03-05
QC Preparation: 2013-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)

QC Batch: 99714
Prep Batch: 84481Date Analyzed: 2013-03-05
QC Preparation: 2013-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322556

QC Batch: 99550
 Prep Batch: 84344

Date Analyzed: 2013-03-07
 QC Preparation: 2013-03-07

Analyzed By: DL
 Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3530	3480	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99550
Prep Batch: 84344Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	996	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 322553

QC Batch: 99507
Prep Batch: 84279Date Analyzed: 2013-03-07
QC Preparation: 2013-03-07Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.72	87	10 - 151	8	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: 322548

QC Batch: 99714
Prep Batch: 84481Date Analyzed: 2013-03-05
QC Preparation: 2013-03-14Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1740	mg/L	55.6	1390	351	100	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1730	mg/L	55.6	1390	351	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: 322548

QC Batch: 99714 Date Analyzed: 2013-03-05 Analyzed By: JR
 Prep Batch: 84481 QC Preparation: 2013-03-14 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	270	mg/L	55.6	278	<2.73	96	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	269	mg/L	55.6	278	<2.73	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: 322550

QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84482 QC Preparation: 2013-03-06 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1940	mg/L	55.6	1390	519	102	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1940	mg/L	55.6	1390	519	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: 322550

QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84482 QC Preparation: 2013-03-06 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	<2.73	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	266	mg/L	55.6	278	<2.73	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: 322552

QC Batch: 99718 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84486 QC Preparation: 2013-03-06 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2200	mg/L	55.6	1390	724	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	2200	mg/L	55.6	1390	724	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: 322552

QC Batch: 99718 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84486 QC Preparation: 2013-03-06 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	279	mg/L	55.6	278	8.15	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	279	mg/L	55.6	278	8.15	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: 99507

Date Analyzed: 2013-03-07

Analyzed By: AK

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	2013-03-07

Standard (CCV-1)

QC Batch: 99507

Date Analyzed: 2013-03-07

Analyzed By: AK

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	2013-03-07

Standard (CCV-1)

QC Batch: 99714

Date Analyzed: 2013-03-05

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	24.9	100	90 - 110	2013-03-05

Standard (CCV-1)

QC Batch: 99714

Date Analyzed: 2013-03-05

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	4.93	99	90 - 110	2013-03-05

Standard (CCV-2)

QC Batch: 99714 Date Analyzed: 2013-03-05 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	24.7	99	90 - 110	2013-03-05

Standard (CCV-2)

QC Batch: 99714 Date Analyzed: 2013-03-05 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	4.88	98	90 - 110	2013-03-05

Standard (CCV-1)

QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2013-03-06

Standard (CCV-1)

QC Batch: 99715 Date Analyzed: 2013-03-06 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	4.88	98	90 - 110	2013-03-06

Standard (CCV-2)

QC Batch: 99715 Date Analyzed: 2013-03-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2013-03-06

Standard (CCV-2)

QC Batch: 99715

Date Analyzed: 2013-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2013-03-06

Standard (CCV-1)

QC Batch: 99718

Date Analyzed: 2013-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2013-03-06

Standard (CCV-1)

QC Batch: 99718

Date Analyzed: 2013-03-06

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	4.95	99	90 - 110	2013-03-06

Standard (CCV-2)

QC Batch: 99718

Date Analyzed: 2013-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-03-06

Standard (CCV-2)

QC Batch: 99718

Date Analyzed: 2013-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2013-03-06

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Trace Analysis, Inc.

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

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

email: lab@traceanalysis.com

Company Name: **D&H Environmental**
Address: (Street, City, Zip) **1221 Tower Trwl Ln, El Paso, TX 79907**
Contact Person: **Victor Ayala**
Invoice to: **Dona Ann Dairies, PO Box 10, Mesquite, NM 88048**
Project #: **407267**
Project Name: **Dona Ann Dairies Consortium**
Project Location (including state): **Various Dairies, Dona Ann County NM**
E-mail: **vayala@dairy.com**
Fax #: **575-233-3620**
Supplier Signature: **[Signature]**

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		TIME	Turn Around Time if different from standard	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ O ₄	NaOH	ICE	NONE			DATE
3825481	DAD-17	1	250ml X					X				X			3-5-13 8:22	
↓-2	DAD-17	1	250ml X					X				X			3-5-13 8:22	
49-1	DAD-18	1	250ml X					X				X			3-5-13 9:55	
↓-2	DAD-18	1	250ml X					X				X			3-5-13 9:55	
50-1	DAD-05	1	250ml X					X				X			3-5-13 10:45	
↓-2	DAD-05	1	250ml X					X				X			3-5-13 10:45	
51-1	DAD-16	1	250ml X					X				X			3-5-13 11:56	
↓-2	DAD-16	1	250ml X					X				X			3-5-13 11:56	
52-1	DAD-07	1	250ml X					X				X			3-5-13 13:39	
↓-2	DAD-07	1	250ml X					X				X			3-5-13 13:39	

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	PCBs 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, S, O ₄ , NO ₃ , NO ₂ , Alkalinity	Na, Ca, Mg, K, TDS, EC	TKN 5m 4500 NORG C	Nitrates EPA 300	Chloride EPA 300	TDS 5m 2540 C MOD	
																				X	X	X	X

ANALYSIS REQUEST
(Circle or Specify Method No.)

Reinquisitioned by: **Company:** **D&H** **Date:** **3-5-13** **Time:** **15:10**
 Received by: **Company:** **D&H** **Date:** **3-5-13** **Time:** **15:10**
 INST: **121** OBS: **1** COR: **2**
 INST: **121** OBS: **1** COR: **2**

Reinquisitioned by: **Company:** **D&H** **Date:** **3-5-13** **Time:** **16:30**
 Received by: **Company:** **D&H** **Date:** **3-6-13** **Time:** **8:30**
 INST: **121** OBS: **1** COR: **2**
 INST: **121** OBS: **1** COR: **2**

Remarks: **ICE**

Carrier #: **ES-483897 Canyon**

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY



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 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.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: March 21, 2013

Work Order: 13022725



DP: 692
Project Location: 1025 East OHara, 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
322203	692-01	water	2013-02-27	14:26	2013-02-27
322204	692-02	water	2013-02-27	07:58	2013-02-27
322205	692-04	water	2013-02-27	08:57	2013-02-27
322206	692-05	water	2013-02-27	10:53	2013-02-27
322207	692-06	water	2013-02-27	11:55	2013-02-27
322208	692-07	water	2013-02-27	13:17	2013-02-27
322209	692-08	water	2013-02-27	13:47	2013-02-27
322210	692-09	water	2013-02-27	09:36	2013-02-27
322211	692 Lagoon	water	2013-02-27	12:39	2013-02-27

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.

This report consists of a total of 32 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2013-02-27 and assigned to work order 13022725. Samples for work order 13022725 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	84384	2013-02-27 at 23:24	99599	2013-02-27 at 23:24
Chloride (IC)	E 300.0	84406	2013-02-28 at 20:05	99638	2013-02-28 at 20:05
Chloride (IC)	E 300.0	84418	2013-03-01 at 00:10	99639	2013-03-01 at 00:10
Chloride (IC)	E 300.0	84419	2013-03-01 at 04:16	99640	2013-03-01 at 04:16
NO3 (IC)	E 300.0	84384	2013-02-27 at 23:24	99599	2013-02-27 at 23:24
NO3 (IC)	E 300.0	84406	2013-02-28 at 20:05	99638	2013-02-28 at 20:05
NO3 (IC)	E 300.0	84418	2013-03-01 at 00:10	99639	2013-03-01 at 00:10
NO3 (IC)	E 300.0	84419	2013-03-01 at 04:16	99640	2013-03-01 at 04:16
TDS	SM 2540C	84225	2013-03-03 at 12:00	99425	2013-03-03 at 12:00
TKN	SM 4500-NH3 B,C	84182	2013-03-01 at 08:00	99393	2013-03-01 at 01:00
TKN	SM 4500-NH3 B,C	84183	2013-03-01 at 08:00	99394	2013-03-01 at 01:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13022725 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.

This report contains 1 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
1. 99599 MS-1	Sulfate	MI4	Instrument software integrated improperly

Analytical Report

Sample: 322203 - 692-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84384 Sample Preparation: 2013-02-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	654	654	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322203 - 692-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
 Prep Batch: 84384 Sample Preparation: 2013-02-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	87.9	87.9	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322203 - 692-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2690	2690	<5.00	mg/L	1	5.00	5	5

Sample: 322203 - 692-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322204 - 692-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99638 Date Analyzed: 2013-02-28 Analyzed By: JR
 Prep Batch: 84406 Sample Preparation: 2013-02-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	396	396	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322204 - 692-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99638 Date Analyzed: 2013-02-28 Analyzed By: JR
 Prep Batch: 84406 Sample Preparation: 2013-02-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	3.37	3.37	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322204 - 692-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1520	1520	<5.00	mg/L	1	5.00	5	5

Sample: 322204 - 692-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99393 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84182 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322205 - 692-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99638 Date Analyzed: 2013-02-28 Analyzed By: JR
 Prep Batch: 84406 Sample Preparation: 2013-02-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	625	625	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322205 - 692-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99638 Date Analyzed: 2013-02-28 Analyzed By: JR
 Prep Batch: 84406 Sample Preparation: 2013-02-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	25.2	25.2	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322205 - 692-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

continued . . .

sample 322205 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2390	2390	<5.00	mg/L	1	5.00	5	5

Sample: 322205 - 692-04

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99394

Prep Batch: 84183

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-03-01

Sample Preparation: 2013-03-01

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322206 - 692-05

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99638

Prep Batch: 84406

Analytical Method: E 300.0

Date Analyzed: 2013-02-28

Sample Preparation: 2013-02-28

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	410	410	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322206 - 692-05

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99638

Prep Batch: 84406

Analytical Method: E 300.0

Date Analyzed: 2013-02-28

Sample Preparation: 2013-02-28

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	2.16	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322206 - 692-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

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: 322206 - 692-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99394 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84183 Sample Preparation: 2013-03-01 Prepared By: AK

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	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322207 - 692-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99639 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84418 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	412	412	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322207 - 692-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99639 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84418 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	2.81	2.81	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322207 - 692-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1390	1390	<5.00	mg/L	1	5.00	5	5

Sample: 322207 - 692-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99394 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84183 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322208 - 692-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99639 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84418 Sample Preparation: 2013-03-01 Prepared By: JR

continued ...

sample 322208 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	563	563	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322208 - 692-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99639 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84418 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	3.82	3.82	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322208 - 692-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1630	1630	<5.00	mg/L	1	5.00	5	5

Sample: 322208 - 692-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99394 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84183 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322209 - 692-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99639 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84418 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	424	424	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322209 - 692-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99639 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84418 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	6.27	6.27	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322209 - 692-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1380	1380	<5.00	mg/L	1	5.00	5	5

Sample: 322209 - 692-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99394 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84183 Sample Preparation: 2013-03-01 Prepared By: AK

continued ...

sample 322209 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322210 - 692-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99640 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84419 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	465	465	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 322210 - 692-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99640 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84419 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	9.50	9.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322210 - 692-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99425 Date Analyzed: 2013-03-03 Analyzed By: DL
 Prep Batch: 84225 Sample Preparation: 2013-03-03 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1440	1440	<5.00	mg/L	1	5.00	5	5

Sample: 322210 - 692-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99394 Date Analyzed: 2013-03-01 Analyzed By: AK
 Prep Batch: 84183 Sample Preparation: 2013-03-01 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322211 - 692 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99640 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84419 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	2860	2860	<25.4	mg/L	500	25.4	2.5	0.0508

Sample: 322211 - 692 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99640 Date Analyzed: 2013-03-01 Analyzed By: JR
 Prep Batch: 84419 Sample Preparation: 2013-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1	<0.491	<5.00	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 322211 - 692 Lagoon

Laboratory: El Paso	Analytical Method: SM 2540C	Prep Method: N/A
Analysis: TDS	Date Analyzed: 2013-03-03	Analyzed By: DL
QC Batch: 99425	Sample Preparation: 2013-03-03	Prepared By: DL
Prep Batch: 84225		

Parameter	F	C	SDL	ML	Method	Units	Dilution	SDL	ML	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	19500	19500	<5.00	mg/L	1	5.00	5	5

Sample: 322211 - 692 Lagoon

Laboratory: Lubbock	Analytical Method: SM 4500-NH3 B,C	Prep Method: N/A
Analysis: TKN	Date Analyzed: 2013-03-01	Analyzed By: AK
QC Batch: 99394	Sample Preparation: 2013-03-01	Prepared By: AK
Prep Batch: 84183		

Parameter	F	C	SDL	ML	Method	Units	Dilution	SDL	ML	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	638	638	<6.88	mg/L	4	6.88	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99393
Prep Batch: 84182Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99394
Prep Batch: 84183Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99425
Prep Batch: 84225Date Analyzed: 2013-03-03
QC Preparation: 2013-03-03Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99599
Prep Batch: 84384Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.36	mg/L	0.0508

Method Blank (1)QC Batch: 99599
Prep Batch: 84384Date Analyzed: 2013-02-27
QC Preparation: 2013-02-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99638
Prep Batch: 84406Date Analyzed: 2013-02-28
QC Preparation: 2013-02-28Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)QC Batch: 99638
Prep Batch: 84406Date Analyzed: 2013-02-28
QC Preparation: 2013-02-28Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99639
Prep Batch: 84418Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)QC Batch: 99639
Prep Batch: 84418Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99640
Prep Batch: 84419Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)QC Batch: 99640
Prep Batch: 84419Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322129QC Batch: 99425
Prep Batch: 84225Date Analyzed: 2013-03-03
QC Preparation: 2013-03-03Analyzed By: DL
Prepared By: DL

Report Date: March 21, 2013

Work Order: 13022725
Del Oro Dairy

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1025 East OHara, Anthony, NM

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	6920	6700	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99425
Prep Batch: 84225Date Analyzed: 2013-03-03
QC Preparation: 2013-03-03Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	975	mg/L	1	1000	<5.00	98	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	971	mg/L	1	1000	<5.00	97	90 - 110	0	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: 322204

QC Batch: 99393
Prep Batch: 84182Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	41.3	mg/L	1	50.0	<1.72	83	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	39.9	mg/L	1	50.0	<1.72	80	10 - 151	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: 322210

QC Batch: 99394
Prep Batch: 84183Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.72	92	10 - 151

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	<1.72	97	10 - 151	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: 322203

QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
Prep Batch: 84384 QC Preparation: 2013-02-27 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2120	mg/L	55.6	1390	654	105	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2120	mg/L	55.6	1390	654	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: 322203

QC Batch: 99599 Date Analyzed: 2013-02-27 Analyzed By: JR
Prep Batch: 84384 QC Preparation: 2013-02-27 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	363	mg/L	55.6	278	87.9	99	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	362	mg/L	55.6	278	87.9	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: 322204

QC Batch: 99638 Date Analyzed: 2013-02-28 Analyzed By: JR
Prep Batch: 84406 QC Preparation: 2013-02-28 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	396	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	1850	mg/L	55.6	1390	396	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: 322204

QC Batch: 99638
Prep Batch: 84406

Date Analyzed: 2013-02-28
QC Preparation: 2013-02-28

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	282	mg/L	55.6	278	3.37	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	280	mg/L	55.6	278	3.37	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: 322207

QC Batch: 99639
Prep Batch: 84418

Date Analyzed: 2013-03-01
QC Preparation: 2013-03-01

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1860	mg/L	55.6	1390	412	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	1860	mg/L	55.6	1390	412	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: 322207

QC Batch: 99639 Date Analyzed: 2013-03-01 Analyzed By: JR
Prep Batch: 84418 QC Preparation: 2013-03-01 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	2.81	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	280	mg/L	55.6	278	2.81	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: 322210

QC Batch: 99640 Date Analyzed: 2013-03-01 Analyzed By: JR
Prep Batch: 84419 QC Preparation: 2013-03-01 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	465	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	1880	mg/L	55.6	1390	465	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: 322210

QC Batch: 99640 Date Analyzed: 2013-03-01 Analyzed By: JR
Prep Batch: 84419 QC Preparation: 2013-03-01 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	9.5	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	284	mg/L	55.6	278	9.5	99	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: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99393

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (ICV-1)

QC Batch: 99394

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99394

Date Analyzed: 2013-03-01

Analyzed By: AK

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	2013-03-01

Standard (CCV-1)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	25.2	101	90 - 110	2013-02-27

Standard (CCV-1)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	4.97	99	90 - 110	2013-02-27

Standard (CCV-2)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	24.9	100	90 - 110	2013-02-27

Standard (CCV-2)

QC Batch: 99599

Date Analyzed: 2013-02-27

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	4.93	99	90 - 110	2013-02-27

Standard (CCV-1)

QC Batch: 99638

Date Analyzed: 2013-02-28

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	2013-02-28

Standard (CCV-1)

QC Batch: 99638

Date Analyzed: 2013-02-28

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	4.95	99	90 - 110	2013-02-28

Standard (CCV-2)

QC Batch: 99638

Date Analyzed: 2013-02-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-02-28

Standard (CCV-2)

QC Batch: 99638

Date Analyzed: 2013-02-28

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	4.91	98	90 - 110	2013-02-28

Standard (CCV-1)

QC Batch: 99639

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-03-01

Standard (CCV-1)

QC Batch: 99639

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2013-03-01

Standard (CCV-2)

QC Batch: 99639

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2013-03-01

Standard (CCV-2)

QC Batch: 99639

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2013-03-01

Standard (CCV-1)

QC Batch: 99640

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2013-03-01

Standard (CCV-1)

QC Batch: 99640

Date Analyzed: 2013-03-01

Analyzed By: JR

Report Date: March 21, 2013

Work Order: 13022725
Del Oro Dairy

Page Number: 30 of 32
1025 East OHara, Anthony, NM

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	2013-03-01

Standard (CCV-2)

QC Batch: 99640

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2013-03-01

Standard (CCV-2)

QC Batch: 99640

Date Analyzed: 2013-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2013-03-01

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 13022725

Company Name: D&H Petroleum & Environmental Services
Address: (Street, City, Zip)
 1221 Tower Trail Ln, El Paso TX 79907
Contact Person: Victor Ayala
Phone #: 915-859-8150
Cell #:
Fax #:
E-mail: vajala@dhpump.com

Project Name: Jerry Settles 575-882-4331
Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, NM
Sampler Signature: *Angel N. Pivon*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		DATE	TIME	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE			
322103-1	692-01	1	250ml	X				X						2-27-13	14:26	
↓ -2	692-01	1	250ml	X				X						2-27-13	14:26	
204-1	692-02	1	250ml	X				X						2-27-13	7:58	
↓ -2	692-02	1	250ml	X				X						2-27-13	7:58	
205-1	692-04	1	250ml	X				X						2-27-13	8:57	
↓ -2	692-04	1	250ml	X				X						2-27-13	8:57	
206-1	692-05	1	250ml	X				X						2-27-13	10:53	
↓ -2	692-05	1	250ml	X				X						2-27-13	10:53	
207-1	692-06	1	250ml	X				X						2-27-13	11:55	
↓ -2	692-06	1	250ml	X				X						2-27-13	11:55	
208-1	692-07	1	250ml	X				X						2-27-13	13:17	
↓ -2	692-07	1	250ml	X				X						2-27-13	13:17	
209-1	692-08	1	250ml	X				X						2-27-13	13:47	
↓ -2	692-08	1	250ml	X				X						2-27-13	13:47	
210-1	692-09	1	250ml	X				X						2-27-13	9:36	
↓ -2	692-09	1	250ml	X				X						2-27-13	9:36	

ANALYSIS REQUEST

TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	X
Nitrate as Nitrogen EPA 300.0	X
Chloride EPA Method 300.0	X
Sulfate EPA Method 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Phosphorus SM 4500	
Turn Around Time	

Relinquished By: *Angel N. Pivon* Date: 2-27-13 Time: 15:10
 Received By: *Victor Ayala* Date: 2-27-13 Time: 15:10

Remarks: 109, C1, TDS in EP
 SS: 48130492
 Dry Weight Basis Required
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.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: February 28, 2013

Work Order: 13021319



DP: 70
 Project Location: 13090 Stern Dr., 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
321004	70-01	water	2013-02-13	14:00	2013-02-13
321005	70-02	water	2013-02-13	12:43	2013-02-13
321006	70-03	water	2013-02-13	11:48	2013-02-13
321007	70 Lagoon	water	2013-02-13	13:09	2013-02-13

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

This report consists of a total of 27 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2013-02-13 and assigned to work order 13021319. Samples for work order 13021319 were received intact at a temperature of 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	83903	2013-02-14 at 04:08	99034	2013-02-14 at 04:08
Chloride (IC)	E 300.0	84119	2013-02-14 at 20:08	99300	2013-02-14 at 20:08
NO3 (IC)	E 300.0	83903	2013-02-14 at 04:08	99034	2013-02-14 at 04:08
NO3 (IC)	E 300.0	84119	2013-02-14 at 20:08	99300	2013-02-14 at 20:08
P, Total	S 6010C	83875	2013-02-18 at 10:02	99013	2013-02-18 at 12:09
SO4 (IC)	E 300.0	83903	2013-02-14 at 04:08	99034	2013-02-14 at 04:08
SO4 (IC)	E 300.0	84119	2013-02-14 at 20:08	99300	2013-02-14 at 20:08
TDS	SM 2540C	83885	2013-02-14 at 09:00	99009	2013-02-14 at 09:00
TDS	SM 2540C	83893	2013-02-15 at 10:00	99018	2013-02-15 at 10:00
TKN	E 351.3	83849	2013-02-15 at 08:15	98970	2013-02-15 at 01:45
TKN	E 351.3	83850	2013-02-15 at 08:15	98971	2013-02-15 at 01:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13021319 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: 321004 - 70-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	655	655	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321004 - 70-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 83903 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	24.7	24.7	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321004 - 70-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1	475	475	<1.29	mg/L	50	1.29	2.5	0.0258

Sample: 321004 - 70-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2680	2680	<5.00	mg/L	1	5.00	5	5

Sample: 321004 - 70-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83849 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321005 - 70-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 83903 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	841	841	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321005 - 70-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 83903 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	38.1	38.1	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321005 - 70-02

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 83903 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	490	490	<0.258	mg/L	10	0.258	2.5	0.0258

Sample: 321005 - 70-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3160	3160	<5.00	mg/L	1	5.00	5	5

Sample: 321005 - 70-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83849 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321006 - 70-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

continued ...

sample 321006 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	3400	3400	<5.08	mg/L	100	5.08	2.5	0.0508

Sample: 321006 - 70-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	59.1	59.1	<0.491	mg/L	10	0.491	0.5	0.0491

Sample: 321006 - 70-03

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	1480	1480	<1.29	mg/L	50	1.29	2.5	0.0258

Sample: 321006 - 70-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99009 Date Analyzed: 2013-02-14 Analyzed By: DL
 Prep Batch: 83885 Sample Preparation: 2013-02-14 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	8440	8440	<5.00	mg/L	1	5.00	5	5

Sample: 321006 - 70-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98971 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83850 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321007 - 70 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1570	1570	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321007 - 70 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
 Prep Batch: 84119 Sample Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	2.09	<2.50	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321007 - 70 Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 99013 Date Analyzed: 2013-02-18 Analyzed By: RR
 Prep Batch: 83875 Sample Preparation: 2013-02-18 Prepared By: KV

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous		2	78.3	78.3	<0.0481	mg/L	1	0.0481	0.5	0.0481

Sample: 321007 - 70 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
 Prep Batch: 83893 Sample Preparation: 2013-02-15 Prepared By: DL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	9600	9600	<5.00	mg/L	1	5.00	5	5

Sample: 321007 - 70 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 98971 Date Analyzed: 2013-02-15 Analyzed By: AK
 Prep Batch: 83850 Sample Preparation: 2013-02-15 Prepared By: AK

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	529	529	<8.60	mg/L	5	8.60	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 98970
Prep Batch: 83849Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 98971
Prep Batch: 83850Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99009
Prep Batch: 83885Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99013
Prep Batch: 83875Date Analyzed: 2013-02-18
QC Preparation: 2013-02-18Analyzed By: RR
Prepared By: KV

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.0481	mg/L	0.0481

Method Blank (1)

QC Batch: 99018 Date Analyzed: 2013-02-15 Analyzed By: DL
Prep Batch: 83893 QC Preparation: 2013-02-15 Prepared By: DL

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

Method Blank (1)

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0258	mg/L	0.0258

Method Blank (1)QC Batch: 99300
Prep Batch: 84119Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)QC Batch: 99300
Prep Batch: 84119Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)QC Batch: 99300
Prep Batch: 84119Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0258	mg/L	0.0258

Duplicate (1) Duplicated Sample: 321006QC Batch: 99009
Prep Batch: 83885Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14Analyzed By: DL
Prepared By: DL

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	8800	8440	mg/L	1	4	10

Duplicate (1) Duplicated Sample: 321179

QC Batch: 99018
Prep Batch: 83893

Date Analyzed: 2013-02-15
QC Preparation: 2013-02-15

Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3580	3580	mg/L	1	0	10

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1000	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 321005

QC Batch: 98970 Date Analyzed: 2013-02-15 Analyzed By: AK
Prep Batch: 83849 QC Preparation: 2013-02-15 Prepared By: AK

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	39.2	mg/L	1	50.0	<1.72	78	45.3 - 107

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	38.5	mg/L	1	50.0	<1.72	77	45.3 - 107	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: 321011

QC Batch: 98971 Date Analyzed: 2013-02-15 Analyzed By: AK
Prep Batch: 83850 QC Preparation: 2013-02-15 Prepared By: AK

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	47.6	mg/L	1	50.0	<1.72	95	45.3 - 107

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.72	92	45.3 - 107	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: 321041

QC Batch: 99013 Date Analyzed: 2013-02-18 Analyzed By: RR
Prep Batch: 83875 QC Preparation: 2013-02-18 Prepared By: KV

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	0.511	mg/L	1	0.500	<0.0481	102	75 - 125

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Phosphorous		2	0.515	mg/L	1	0.500	<0.0481	103	75 - 125	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: 321004

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2140	mg/L	55.6	1390	751	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. Limit	RPD	RPD Limit	
Chloride		1	2140	mg/L	55.6	1390	751	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: 321004

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	55.6	278	24.7	100	90 - 110

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Nitrate-N		1	302	mg/L	55.6	278	24.7	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: 321004

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 83903 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1860	mg/L	55.6	1390	517	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	1860	mg/L	55.6	1390	517	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: 321008

QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 84119 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2190	mg/L	55.6	1390	711	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	2170	mg/L	55.6	1390	711	105	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: 321008

QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR
Prep Batch: 84119 QC Preparation: 2013-02-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	298	mg/L	55.6	278	29.6	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	295	mg/L	55.6	278	29.6	106	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: 321008

QC Batch: 99300
Prep Batch: 84119

Date Analyzed: 2013-02-14
QC Preparation: 2013-02-14

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1890	mg/L	55.6	1390	511	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
Sulfate		1	1870	mg/L	55.6	1390	511	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: 98970

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (CCV-1)

QC Batch: 98970

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (ICV-1)

QC Batch: 98971

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (CCV-1)

QC Batch: 98971

Date Analyzed: 2013-02-15

Analyzed By: AK

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	2013-02-15

Standard (ICV-1)

QC Batch: 99013 Date Analyzed: 2013-02-18 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.19	104	90 - 110	2013-02-18

Standard (CCV-1)

QC Batch: 99013 Date Analyzed: 2013-02-18 Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.17	103	90 - 110	2013-02-18

Standard (CCV-1)

QC Batch: 99034 Date Analyzed: 2013-02-14 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	24.4	98	90 - 110	2013-02-14

Standard (CCV-1)

QC Batch: 99034 Date Analyzed: 2013-02-14 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	4.79	96	90 - 110	2013-02-14

Standard (CCV-1)

QC Batch: 99034 Date Analyzed: 2013-02-14 Analyzed By: JR

Standard (CCV-1)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	4.86	97	90 - 110	2013-02-14

Standard (CCV-1)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	2013-02-14

Standard (CCV-2)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	24.5	98	90 - 110	2013-02-14

Standard (CCV-2)

QC Batch: 99300 Date Analyzed: 2013-02-14 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	4.86	97	90 - 110	2013-02-14

Standard (CCV-2)

QC Batch: 99300 Date Analyzed: 2013-02-14 Analyzed By: JR

Report Date: February 28, 2013

Work Order: 13021319
Mountain View Dairy

Page Number: 25 of 27
13090 Stern Dr., Mesquite, NM

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	2013-02-14

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: D&H Petroleum & Environmental Services
Address: 1221 Tower Trail Ln El Paso, Texas 70097
Contact Person: Victor Ayala
Phone #: 915-859-8150
Fax #: 915-859-7229
E-mail: vayala@dh-enviro.com

Project #: 407269
Project Name: Mountain View Dairy
Project Location: Mountain View Dairy, 13090 Stern Dr. Mesquite, NM
Sampler Signature: *David N River*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	AIR	SOIL	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH			ICE
321004-1	70-01	1	250ml	X				X					2-13-13 14:40	
321005-1	70-01	1	250ml	X				X					14:00	
321005-2	70-02	1	250ml	X				X					12:43	
321006-1	70-02	1	250ml	X				X					12:43	
321006-2	70-03	1	250ml	X				X					11:48	
321007-1	70-04	1	250ml	X				X						
321007-2	70 Lagoon	1	250ml	X				X					2-13-13 13:04	
321007-3	70 Lagoon	1	250ml	X				X					13:04	

Relinquished by: *[Signature]* Company: *[Signature]* Date: 2-13-13 15:25
Received by: *[Signature]* Company: *[Signature]* Date: 2-13-13 16:30

Relinquished by: *[Signature]* Company: *[Signature]* Date: 2-13-13 15:25
Received by: *[Signature]* Company: *[Signature]* Date: 2-13-13 16:30

Relinquished by: *[Signature]* Company: *[Signature]* Date: 2-13-13 15:25
Received by: *[Signature]* Company: *[Signature]* Date: 2-13-13 16:30

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	
BTEX 8021B / 602 / 8260B / 624	
TPH 418.1 / TX1005 / DRO / TVHC	
PAH 8270C / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCBs 8082 / 608	
Nitrate as Nitrogen EPA 300.0	X
Chloride EPA Method 300.0	X
Sulfate EPA Method 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Phosphorus SM 4500	
Sulfur	
Hold	

Turn Around Time if different from standard

REMARKS: ICE TKN & phosphorus
Lubbock
all in El Paso

LAB USE ONLY
Intact Y/N
Headspace Y/N/NA
Log# Review: 2-13-13

Dry Weight Basis Required
 TRRP Report Required
 Check if Special Reporting Limits Are Needed

Carrier # *100919*



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: March 7, 2013

Work Order: 13022026



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
321732	74-04	water	2013-02-20	08:58	2013-02-20
321733	74-05	water	2013-02-20	10:27	2013-02-20

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2013-02-20 and assigned to work order 13022026. Samples for work order 13022026 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	84240	2013-02-21 at 05:23	99445	2013-02-21 at 05:23
NO3 (IC)	E 300.0	84240	2013-02-21 at 05:23	99445	2013-02-21 at 05:23
TDS	SM 2540C	84056	2013-02-22 at 07:00	99224	2013-02-22 at 07:00
TKN	SM 4500-NH3 B,C	84076	2013-02-25 at 07:45	99246	2013-02-25 at 11:15

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 13022026 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: 321732 - 74-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84240 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	499	499	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321732 - 74-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84240 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	18.5	18.5	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321732 - 74-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1960	1960	<5.00	mg/L	1	5.00	5	5

Sample: 321732 - 74-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99246 Date Analyzed: 2013-02-25 Analyzed By: AK
 Prep Batch: 84076 Sample Preparation: 2013-02-25 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 321733 - 74-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84240 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	470	470	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 321733 - 74-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99445 Date Analyzed: 2013-02-21 Analyzed By: JR
 Prep Batch: 84240 Sample Preparation: 2013-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	17.8	17.8	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 321733 - 74-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99224 Date Analyzed: 2013-02-22 Analyzed By: DL
 Prep Batch: 84056 Sample Preparation: 2013-02-22 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1870	1870	<5.00	mg/L	1	5.00	5	5

Sample: 321733 - 74-05

Report Date: March 7, 2013

Work Order: 13022026
Buena Vista Dairy #2

Page Number: 6 of 14
16910 Stern Drive, Mesquite, NM

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99246

Prep Batch: 84076

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-02-25

Sample Preparation: 2013-02-25

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99246
Prep Batch: 84076Date Analyzed: 2013-02-25
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99445
Prep Batch: 84240Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0508	mg/L	0.0508

Method Blank (1)

QC Batch: 99445
Prep Batch: 84240Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21Analyzed By: JR
Prepared By: JR

Report Date: March 7, 2013

Work Order: 13022026
Buena Vista Dairy #2

Page Number: 8 of 14
16910 Stern Drive, Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 321675

QC Batch: 99224
Prep Batch: 84056

Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22

Analyzed By: DL
Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4540	4480	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99224
Prep Batch: 84056Date Analyzed: 2013-02-22
QC Preparation: 2013-02-22Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	999	mg/L	1	1000	<5.00	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	997	mg/L	1	1000	<5.00	100	90 - 110	0	10

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

Matrix Spike (MS-1) Spiked Sample: 321737

QC Batch: 99246
Prep Batch: 84076Date Analyzed: 2013-02-25
QC Preparation: 2013-02-25Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.72	92	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	<1.72	97	10 - 151	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: 321733

QC Batch: 99445
Prep Batch: 84240Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		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.

Matrix Spike (MS-1) Spiked Sample: 321733

QC Batch: 99445
Prep Batch: 84240

Date Analyzed: 2013-02-21
QC Preparation: 2013-02-21

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	306	mg/L	55.6	278	17.8	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	306	mg/L	55.6	278	17.8	104	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: 99246

Date Analyzed: 2013-02-25

Analyzed By: AK

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	2013-02-25

Standard (CCV-1)

QC Batch: 99246

Date Analyzed: 2013-02-25

Analyzed By: AK

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	2013-02-25

Standard (CCV-1)

QC Batch: 99445

Date Analyzed: 2013-02-21

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	24.6	98	90 - 110	2013-02-21

Standard (CCV-1)

QC Batch: 99445

Date Analyzed: 2013-02-21

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	4.84	97	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99445

Date Analyzed: 2013-02-21

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	24.6	98	90 - 110	2013-02-21

Standard (CCV-2)

QC Batch: 99445

Date Analyzed: 2013-02-21

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	4.88	98	90 - 110	2013-02-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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.

Trace Analysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: **D&H Environmental** Phone #: **915-859-8150**
 Address: (Street, City, Zip) **1221 Tower Trail Ln, El Paso, TX 79907** Fax #:
 Contact Person: **Victor Ayala** E-mail: **vayala@dhrump.com**
 Invoice to: **Buena Vista II P.O. Box 346, Mesquite, NM 88048** Fernie, 575-233-4646
 Project #: **407262** Project Name: **Buena Vista Dairy #2**
 Project Location (including state): **Buena Vista Dairy #2, 116910 Stem Dr. Mesquite, NM, Angela N Roca**
 Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
321732-1	74-04	1	250mL X					X		X		2-20-13	8:58
↓ -2	74-04	1	250mL X					X		X		2-20-13	8:58
321733-1	74-05	1	250mL X					X		X		2-20-13	10:27
↓ -2	74-05	1	250mL X					X		X		2-20-13	10:27

ANALYSIS REQUEST (Circle or Specify Method No.)

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 6010/2007	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Semi 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, F1, S04, NO3, NO2, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
X TKN Sm 4500 NDR6 C	
X Nitrate's ERA 300	
Chloride ERA 300.6	
TDS Sm 2540 C MOD	
Turn Around Time if different from standard	Hold

Relinquished by: **Angela N Roca** Company: **D&H** Date: **2-20-13** Time: **15:05** Received by: **[Signature]** Company: **D&H** Date: **2/20/13** Time: **15:05**

Relinquished by: **[Signature]** Company: **For provide every** Date: **2/20/13** Time: **1630** Received by: **[Signature]** Company: Date: Time:

Relinquished by: **[Signature]** Company: Date: Time: Received by: **[Signature]** Company: Date: Time:

REMARKS: **ICE**
all analysis in ELP
TKN in Lubbock

LAB USE ONLY
Inst: **DA**
Headspace: **Y/N/NA**
Log-in-Review: **WH 2-20-13**

Dry Weight Basis Required
TRRP Report Required
Check if Special Reporting Limits Are Needed

Carrier #: **Curry 11-75: 48 3088**

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY



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 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: March 22, 2013

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 13030628



Project Location: Various Dairies, Dona Ana County, NM
 Project Name: Dona Ana Dairies Consortium
 Project #: DAD

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
322631	DAD-09	water	2013-03-06	08:58	2013-03-06
322632	DAD-10	water	2013-03-06	14:26	2013-03-06
322633	DAD-20	water	2013-03-06	12:17	2013-03-06
322634	DAD-21	water	2013-03-06	08:07	2013-03-06
322635	DAD-22	water	2013-03-06	13:22	2013-03-06

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-03-06 and assigned to work order 13030628. Samples for work order 13030628 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	84487	2013-03-06 at 18:20	99719	2013-03-06 at 18:20
Chloride (IC)	E 300.0	84542	2013-03-07 at 19:30	99790	2013-03-07 at 19:30
NO3 (IC)	E 300.0	84487	2013-03-06 at 18:20	99719	2013-03-06 at 18:20
NO3 (IC)	E 300.0	84542	2013-03-07 at 19:30	99790	2013-03-07 at 19:30
TDS	SM 2540C	84463	2013-03-11 at 09:00	99694	2013-03-11 at 09:00
TKN	SM 4500-NH3 B,C	84339	2013-03-08 at 08:45	99544	2013-03-08 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 13030628 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: 322631 - DAD-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84487 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	494	494	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322631 - DAD-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84487 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	17.1	17.1	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322631 - DAD-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99694 Date Analyzed: 2013-03-11 Analyzed By: DL
 Prep Batch: 84463 Sample Preparation: 2013-03-11 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1840	1840	<5.00	mg/L	1	5.00	5	5

Sample: 322631 - DAD-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99544 Date Analyzed: 2013-03-08 Analyzed By: AK
 Prep Batch: 84339 Sample Preparation: 2013-03-08 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322632 - DAD-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84487 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	468	468	<0.508	mg/L	10	0.508	2.5	0.0508

Sample: 322632 - DAD-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84487 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	4.83	4.83	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322632 - DAD-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99694 Date Analyzed: 2013-03-11 Analyzed By: DL
 Prep Batch: 84463 Sample Preparation: 2013-03-11 Prepared By: DL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1620	1620	<5.00	mg/L	1	5.00	5	5

Sample: 322632 - DAD-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99544 Date Analyzed: 2013-03-08 Analyzed By: AK
 Prep Batch: 84339 Sample Preparation: 2013-03-08 Prepared By: AK

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322633 - DAD-20

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84487 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	710	710	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322633 - DAD-20

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84487 Sample Preparation: 2013-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	29.5	29.5	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322633 - DAD-20

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99694 Date Analyzed: 2013-03-11 Analyzed By: DL
 Prep Batch: 84463 Sample Preparation: 2013-03-11 Prepared By: DL

continued . . .

sample 322633 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2280	2280	<5.00	mg/L	1	5.00	5	5

Sample: 322633 - DAD-20

Laboratory: Lubbock

Analysis: TKN

QC Batch: 99544

Prep Batch: 84339

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-03-08

Sample Preparation: 2013-03-08

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322634 - DAD-21

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 99790

Prep Batch: 84542

Analytical Method: E 300.0

Date Analyzed: 2013-03-07

Sample Preparation: 2013-03-07

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	516	516	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322634 - DAD-21

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 99790

Prep Batch: 84542

Analytical Method: E 300.0

Date Analyzed: 2013-03-07

Sample Preparation: 2013-03-07

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	5.76	5.76	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322634 - DAD-21

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99694 Date Analyzed: 2013-03-11 Analyzed By: DL
 Prep Batch: 84463 Sample Preparation: 2013-03-11 Prepared By: DL

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1910	1910	<5.00	mg/L	1	5.00	5	5

Sample: 322634 - DAD-21

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99544 Date Analyzed: 2013-03-08 Analyzed By: AK
 Prep Batch: 84339 Sample Preparation: 2013-03-08 Prepared By: AK

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Sample: 322635 - DAD-22

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99790 Date Analyzed: 2013-03-07 Analyzed By: JR
 Prep Batch: 84542 Sample Preparation: 2013-03-07 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	909	909	<2.54	mg/L	50	2.54	2.5	0.0508

Sample: 322635 - DAD-22

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 99790 Date Analyzed: 2013-03-07 Analyzed By: JR
 Prep Batch: 84542 Sample Preparation: 2013-03-07 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	8.25	8.25	<0.246	mg/L	5	0.246	0.5	0.0491

Sample: 322635 - DAD-22

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 99694 Date Analyzed: 2013-03-11 Analyzed By: DL
 Prep Batch: 84463 Sample Preparation: 2013-03-11 Prepared By: DL

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2610	2610	<5.00	mg/L	1	5.00	5	5

Sample: 322635 - DAD-22

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 99544 Date Analyzed: 2013-03-08 Analyzed By: AK
 Prep Batch: 84339 Sample Preparation: 2013-03-08 Prepared By: AK

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.72	<10.0	<1.72	mg/L	1	1.72	10	1.72

Method Blanks

Method Blank (1)

QC Batch: 99544
Prep Batch: 84339Date Analyzed: 2013-03-08
QC Preparation: 2013-03-08Analyzed By: AK
Prepared By: AK

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.72	mg/L	1.72

Method Blank (1)

QC Batch: 99694
Prep Batch: 84463Date Analyzed: 2013-03-11
QC Preparation: 2013-03-11Analyzed By: DL
Prepared By: DL

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

Method Blank (1)

QC Batch: 99719
Prep Batch: 84487Date Analyzed: 2013-03-06
QC Preparation: 2013-03-06Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)

QC Batch: 99719
Prep Batch: 84487Date Analyzed: 2013-03-06
QC Preparation: 2013-03-06Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Method Blank (1)

QC Batch: 99790 Date Analyzed: 2013-03-07 Analyzed By: JR
 Prep Batch: 84542 QC Preparation: 2013-03-07 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.37	mg/L	0.0508

Method Blank (1)

QC Batch: 99790 Date Analyzed: 2013-03-07 Analyzed By: JR
 Prep Batch: 84542 QC Preparation: 2013-03-07 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0491	mg/L	0.0491

Duplicate (1) Duplicated Sample: 322635

QC Batch: 99694 Date Analyzed: 2013-03-11 Analyzed By: DL
 Prep Batch: 84463 QC Preparation: 2013-03-11 Prepared By: DL

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2660	2610	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99694
Prep Batch: 84463Date Analyzed: 2013-03-11
QC Preparation: 2013-03-11Analyzed By: DL
Prepared By: DL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	994	mg/L	1	1000	<5.00	99	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	994	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.

Matrix Spike (MS-1) Spiked Sample: 322635

QC Batch: 99544
Prep Batch: 84339Date Analyzed: 2013-03-08
QC Preparation: 2013-03-08Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	39.2	mg/L	1	50.0	<1.72	78	10 - 151

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	38.5	mg/L	1	50.0	<1.72	77	10 - 151	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: 322632

QC Batch: 99719
Prep Batch: 84487Date Analyzed: 2013-03-06
QC Preparation: 2013-03-06Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1990	mg/L	55.6	1390	468	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1990	mg/L	55.6	1390	468	109	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: 322632

QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR
 Prep Batch: 84487 QC Preparation: 2013-03-06 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	297	mg/L	55.6	278	4.83	105	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	298	mg/L	55.6	278	4.83	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: 322634

QC Batch: 99790 Date Analyzed: 2013-03-07 Analyzed By: JR
 Prep Batch: 84542 QC Preparation: 2013-03-07 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1970	mg/L	55.6	1390	516	105	90 - 110

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1980	mg/L	55.6	1390	516	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: 322634

QC Batch: 99790 Date Analyzed: 2013-03-07 Analyzed By: JR
 Prep Batch: 84542 QC Preparation: 2013-03-07 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	279	mg/L	55.6	278	5.76	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	280	mg/L	55.6	278	5.76	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: 99544

Date Analyzed: 2013-03-08

Analyzed By: AK

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	2013-03-08

Standard (CCV-1)

QC Batch: 99544

Date Analyzed: 2013-03-08

Analyzed By: AK

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	2013-03-08

Standard (CCV-1)

QC Batch: 99719

Date Analyzed: 2013-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-03-06

Standard (CCV-1)

QC Batch: 99719

Date Analyzed: 2013-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2013-03-06

Standard (CCV-2)

QC Batch: 99719 Date Analyzed: 2013-03-06 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2013-03-06

Standard (CCV-2)

QC Batch: 99719 Date Analyzed: 2013-03-06 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	4.91	98	90 - 110	2013-03-06

Standard (CCV-1)

QC Batch: 99790 Date Analyzed: 2013-03-07 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	2013-03-07

Standard (CCV-1)

QC Batch: 99790 Date Analyzed: 2013-03-07 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	4.95	99	90 - 110	2013-03-07

Standard (CCV-2)

QC Batch: 99790 Date Analyzed: 2013-03-07 Analyzed By: JR

Report Date: March 22, 2013

Work Order: 13030628
Dona Ana Dairies Consortium

Page Number: 18 of 20
Various Dairies, Dona Ana County, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2013-03-07

Standard (CCV-2)

QC Batch: 99790

Date Analyzed: 2013-03-07

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	4.91	98	90 - 110	2013-03-07

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.125	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TKN	SM 4500-NH3 B,C	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	T104704221-12-3	El Paso
2	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
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

Company Name: D&H Petroleum & Environmental Services
Address: (Street, City, Zip)
1221 Tower Trail Ln, El Paso TX 79907
Contact Person: Victor Ayala
Phone #: 915-859-8150
Cell #: 915-859-8150
Fax #: vajala@dhpump.com
E-mail: vajala@dhpump.com

Invoice to (if different from above):
Dona Ana Dairies, PO Box 10, Mesquite, NM 88048
Project #: 407267
Project Name: Linda Armstrong 575-233-3620
Project Location (including state):
Various Dairies, Dona Ana County, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					Sampling			
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME		
322631-1	DAD-09	1	250	X				X			X				3-6-13	8:58
↓-2	DAD-09	1		X				X			X				3-6-13	6:58
32-1	DAD-10	1		X				X			X				3-6-13	14:26
↓-2	DAD-10	1		X				X			X				3-6-13	14:26
33-1	DAD-20	1		X				X			X				3-6-13	12:17
↓-2	DAD-20	1		X				X			X				3-6-13	12:17
34-1	DAD-21	1		X				X			X				3-6-13	8:07
↓-2	DAD-21	1		X				X			X				3-6-13	8:07
35-1	DAD-22	1		X				X			X				3-6-13	13:22
↓-2	DAD-22	1		X				X			X				3-6-13	13:22

Relinquished By: Angel N. Rivera
Date: 3-6-13 Time: 15:00
Received By: Danny de Haro
Date: 3-6-13 Time: 15:00
Relinquished By: Danny de Haro
Date: 3-6-13 Time: 16:30
Received By: SA
Date: 3/17/13 Time: 8:49

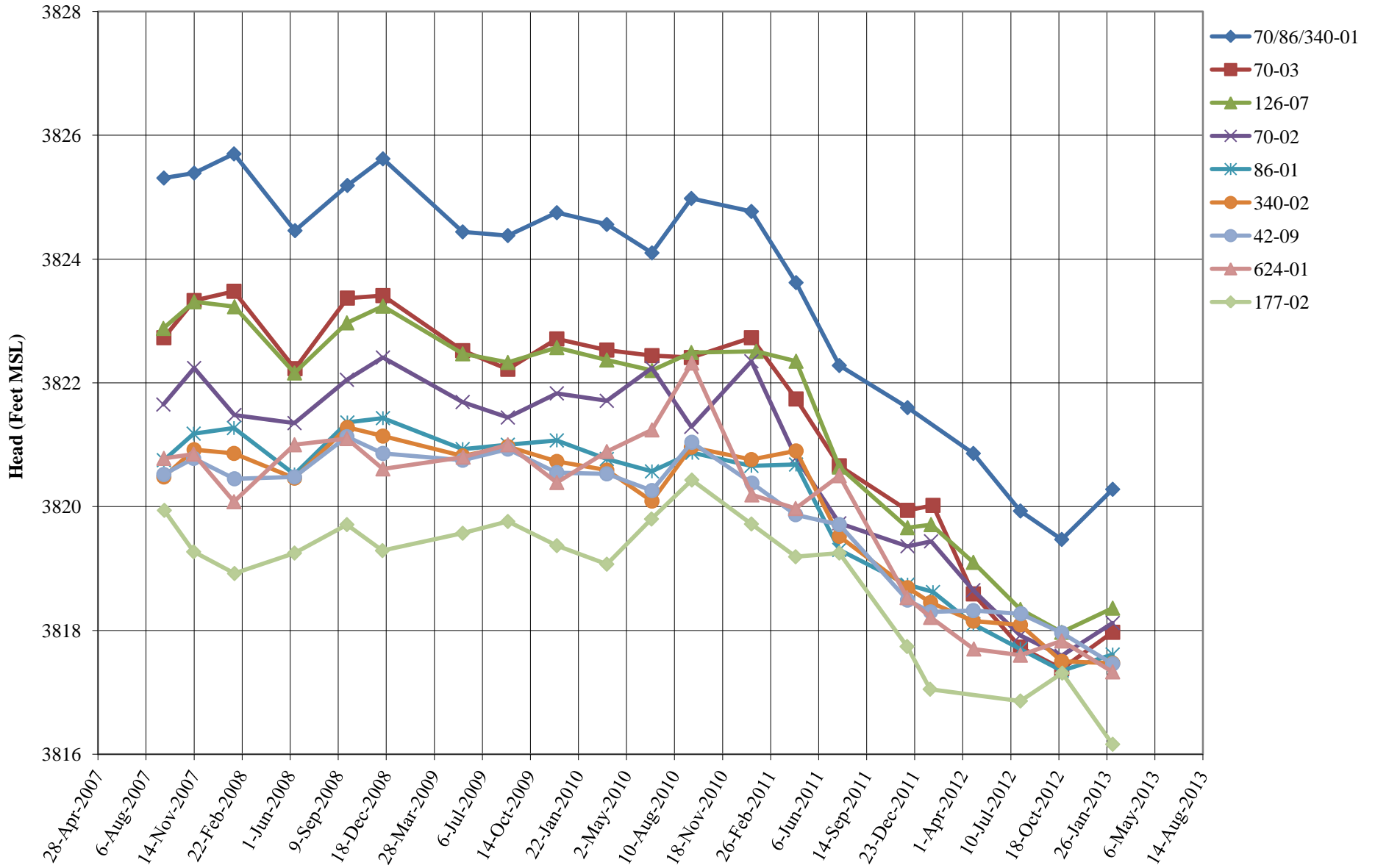
Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 13030628

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
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			
								X		X			

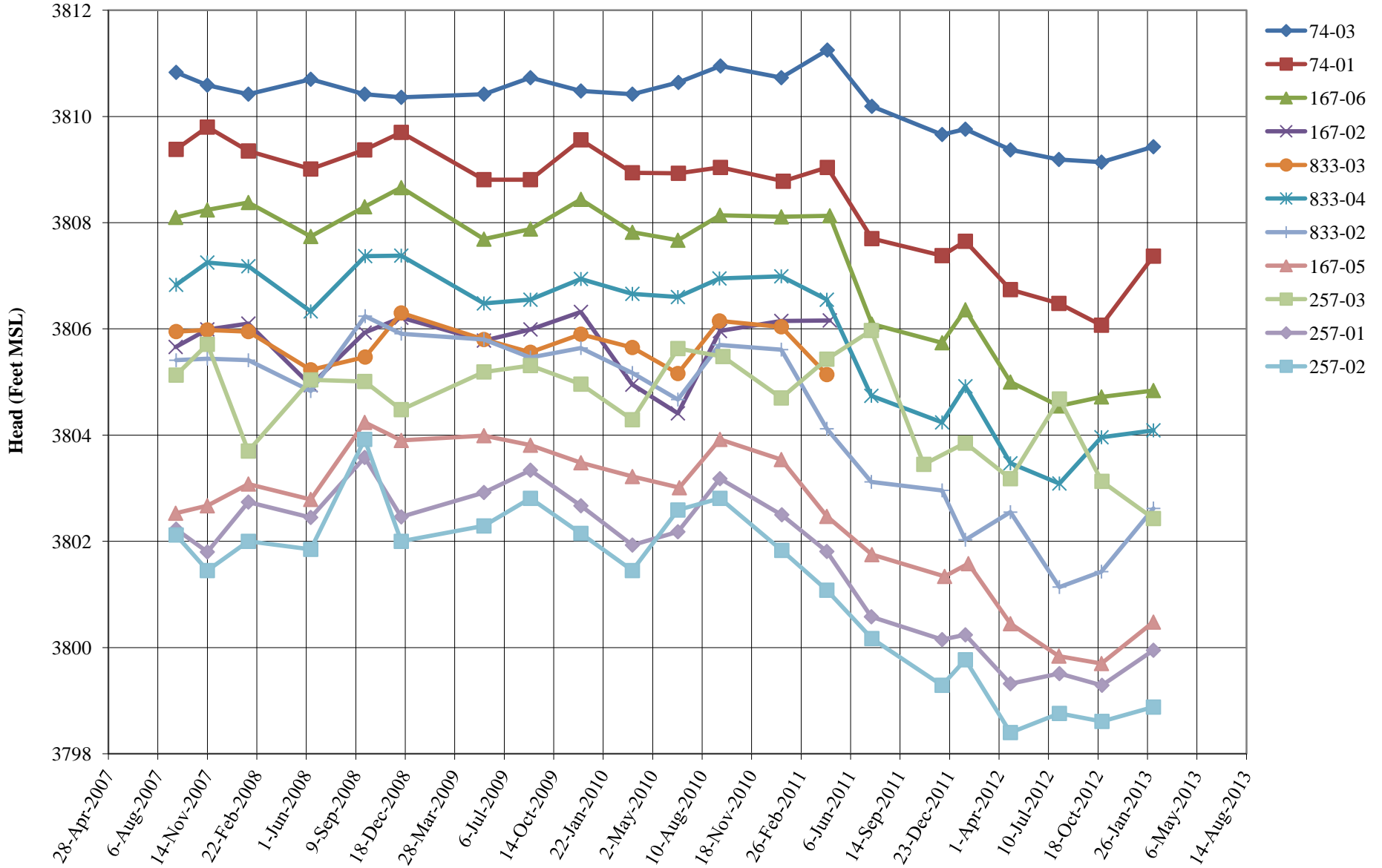
Remarks: TS: C1, NO3, M, EP, K3
JS: H8/30498
Carry In
Dry Weight Basis Required
TRRP Report Required

**APPENDIX C
HYDROGRAPHS**

HYDROGRAPHS FOR DP MONITORING WELLS NORTHERN PORTION

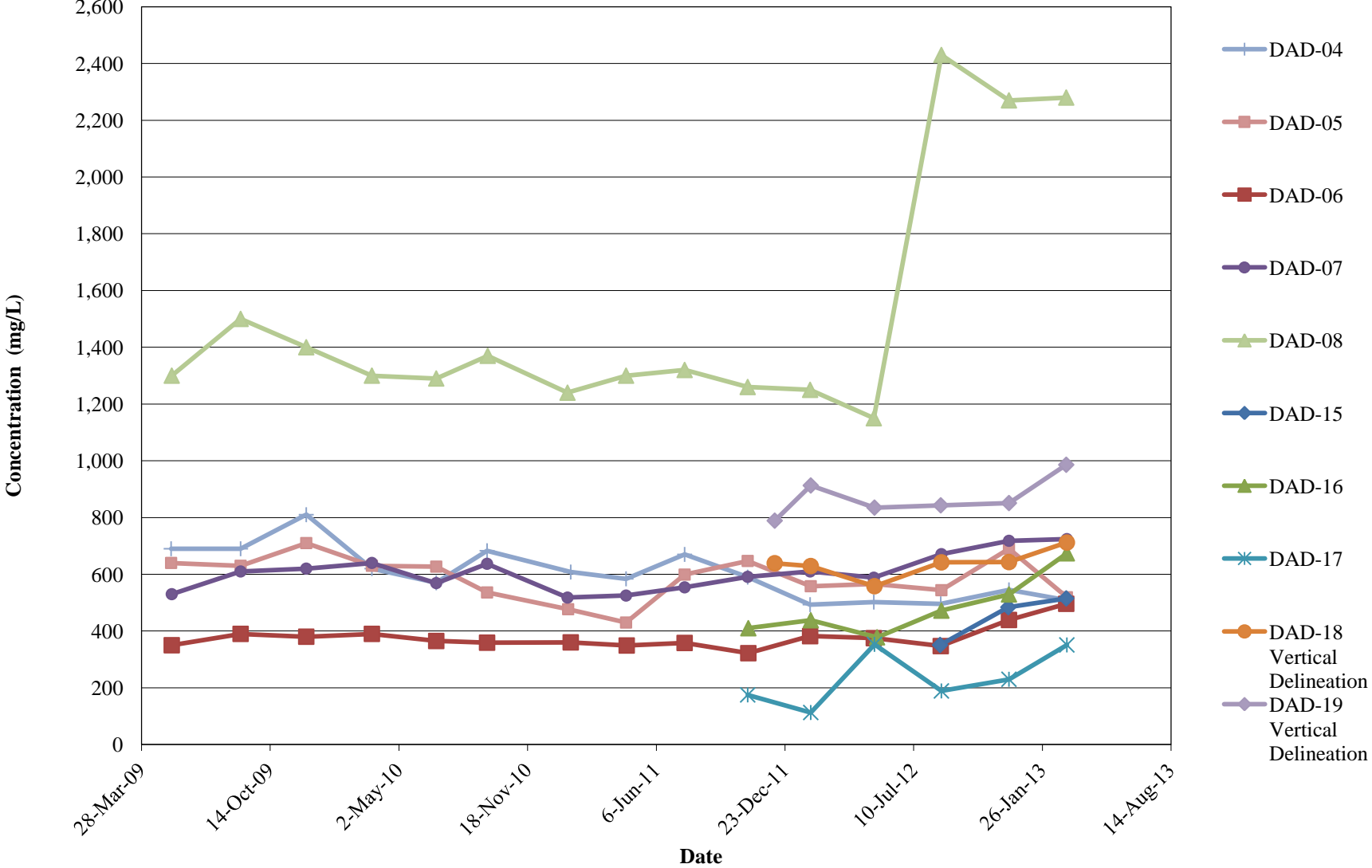


HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION

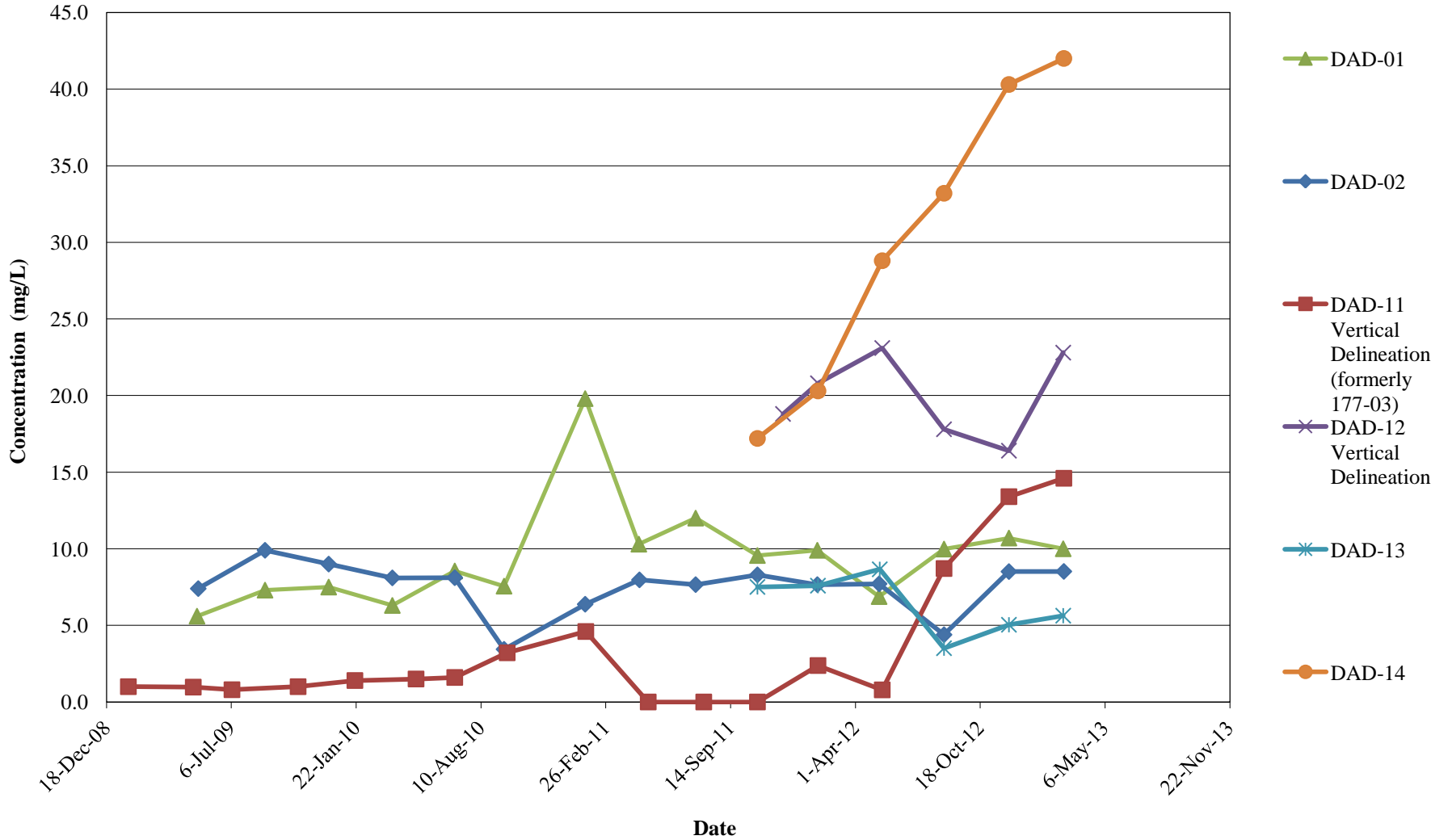


APPENDIX D
CONCENTRATION TRENDS

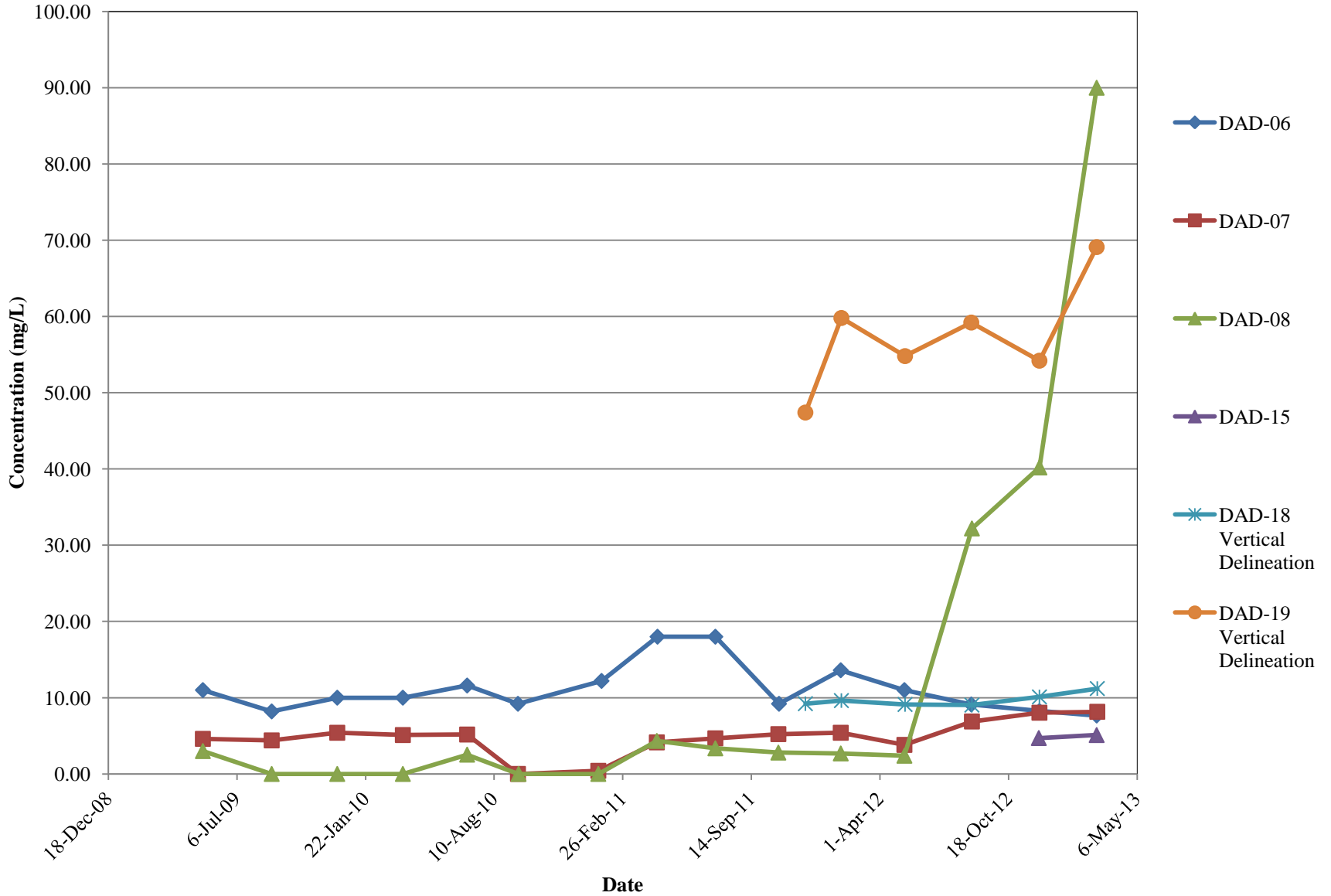
CHLORIDE CONCENTRATION TRENDS CENTRAL DAD MONITORING WELLS



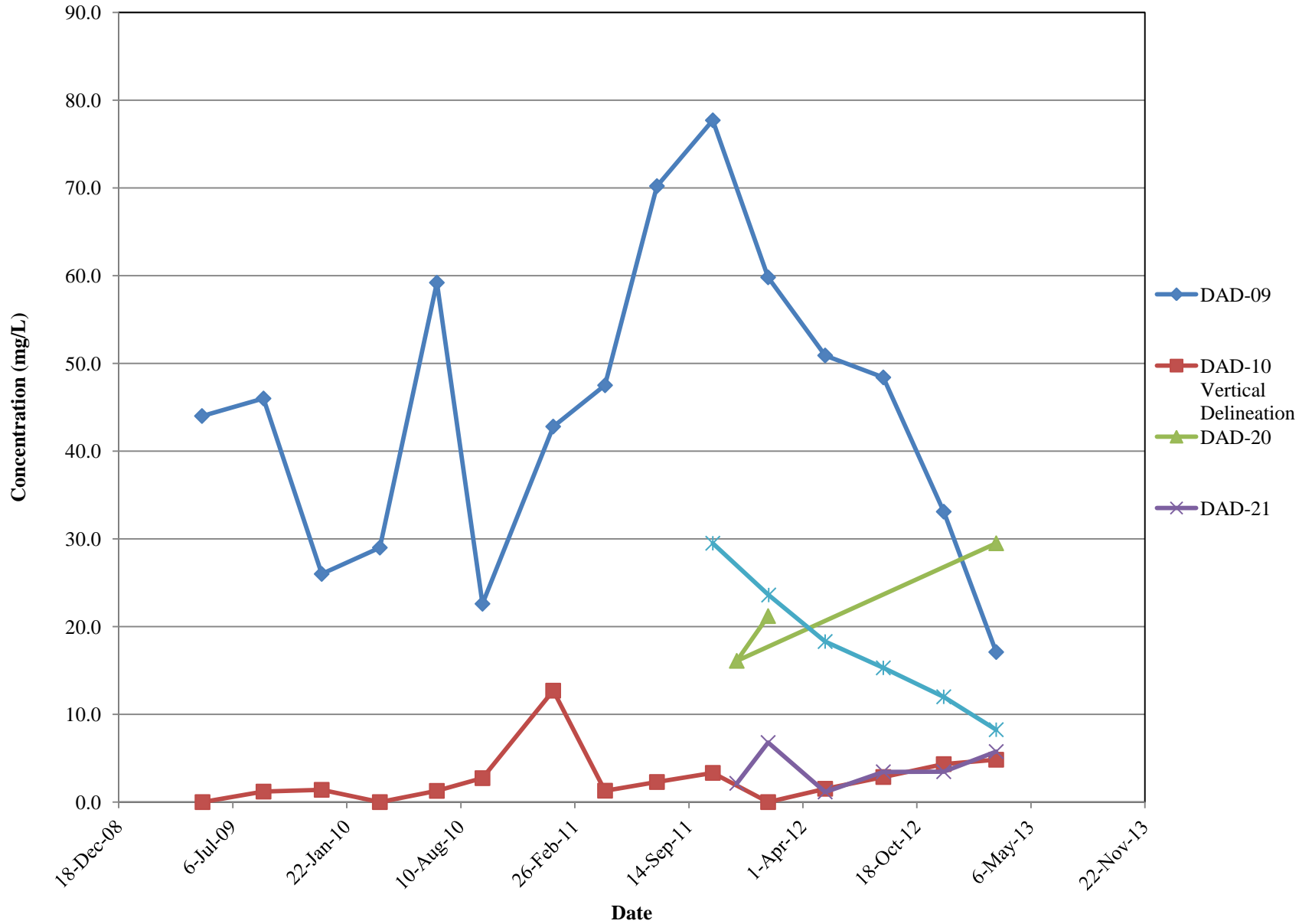
NITRATE CONCENTRATION TRENDS IN SELECT NORTHERN DAD MONITORING WELLS



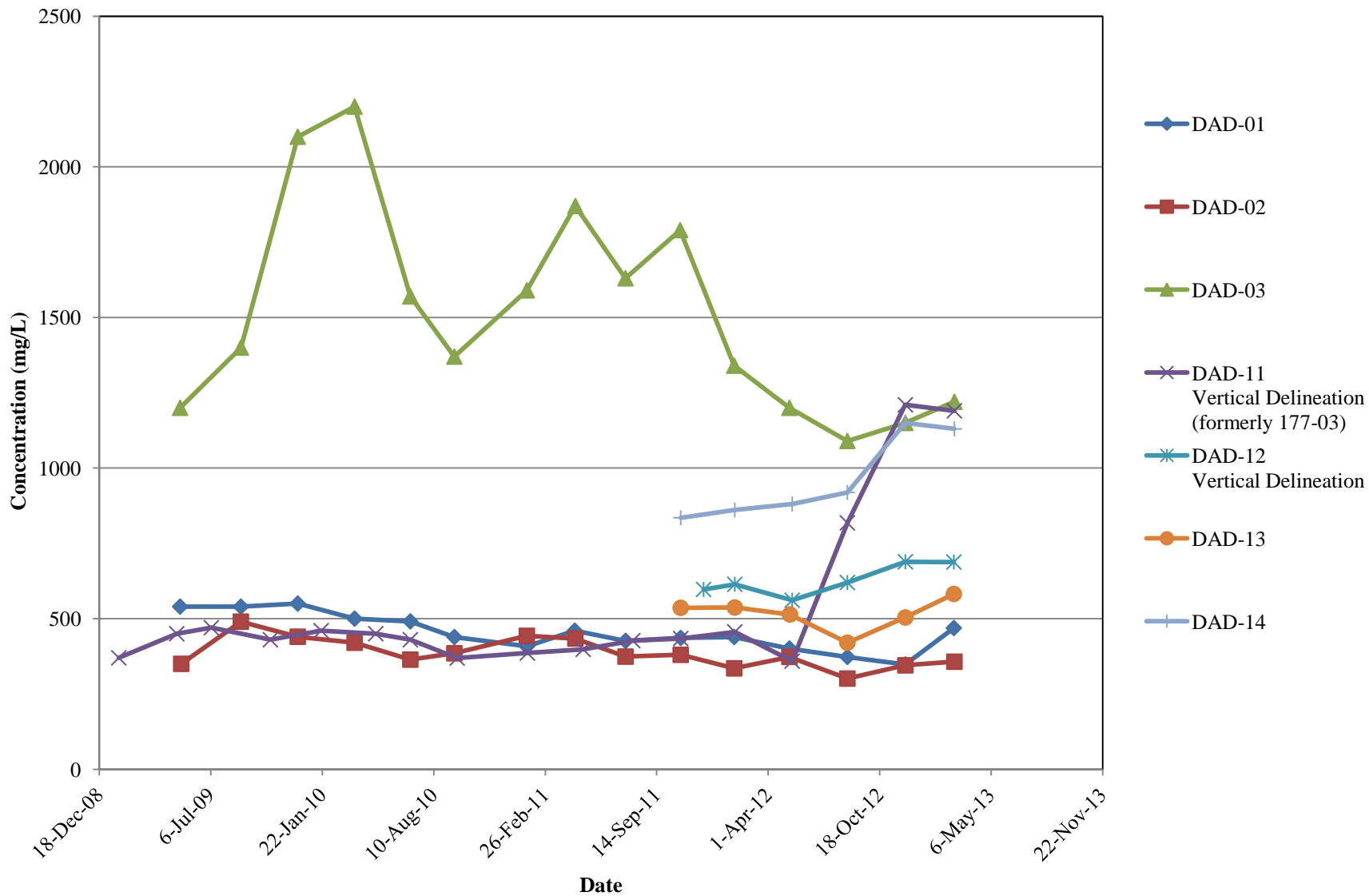
NITRATE CONCENTRATION TRENDS IN SELECT CENTRAL DAD WELLS



NITRATE CONCENTRATION TRENDS IN SELECT SOUTHERN DAD WELLS



CHLORIDE CONCENTRATION TRENDS NORTHERN DAD WELLS



CHLORIDE CONCENTRATION TRENDS SOUTHERN DAD WELLS

