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March 10, 2015

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., PBC 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 that reads 'Teri McMillan'.

Teri McMillan
Project Manager

A handwritten signature in blue ink that reads 'Jay Snyder'.

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., PBC
320 Gold Avenue SW, Suite 1210
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March 2015

EA Project No. 1464103.0008



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QUARTERLY GROUNDWATER MONITORING REPORT DOÑA ANA DAIRIES MESQUITE, NEW MEXICO

Prepared for:

Doña Ana Dairies
Mesquite, New Mexico

Prepared by:

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

A handwritten signature in blue ink that reads 'Teri McMillan'.

Teri McMillan
Project Manager

3/10/2015

Date

A handwritten signature in blue ink that reads 'Jay Snyder'.

Jay Snyder
Senior Hydrogeologist

3/10/2015

Date

March 2015

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1.0 INTRODUCTION

On behalf of Doña Ana Dairies (Dairies), EA Engineering, Science, and Technology, Inc., PBC (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 the *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 November 5 through 6, 2014, representatives from D&H Petroleum and Environmental Services, Inc. (D&H) gauged all discharge plan (DP) and abatement plan (AP) monitoring wells. Several wells were re-gauged on November 10, 2014.
- On November 11 through December 5, 2014, D&H representatives collected groundwater samples from 21 of the 22 AP wells, each of the Dairies' DP monitoring wells, and DP specified lagoons. AP well DAD-06 did not contain enough water to sample. The sampling campaign lasted about four weeks. 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 were compiled into this Quarterly Groundwater Monitoring Report.

1.2 Background

In correspondence dated April 7, 2006, 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 an 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. Based on an NMED response in August 2013, a Revision to the Stage 2 Abatement Plan was submitted in November 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 November 5 through 6, 2014, representatives from D&H gauged the DP and AP monitoring wells with an electronic water level indicator. Several wells were re-gauged on November 10, 2014. 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 December 3 through 5, 2014, D&H sampled the AP monitoring wells DAD-01 through DAD-22 with disposable bailers with the exception of well DAD-06, which was dry. Three well volumes were purged with new disposable bailers and rope from each well prior to sampling, unless the well contained insufficient water.

D&H sampled the DP wells from November 11 through December 2, 2014. Prior to sampling, the DP wells were purged three well volumes, if practicable, by hand-bailing with new disposable bailers, by pumping with a submersible pump and new polyethylene tubing, or pumping with a dedicated pump and tubing.

The wells 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. 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 12.94 feet below top of casing (ft TOC) in abatement well DAD-03 to 132.31 ft TOC in Dominguez #2 well 42-12. Groundwater was 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 select monitoring wells and are provided in Appendix C. On average, water levels have slightly decreased in the northern and southern areas while decreasing or increasing slightly in the central area when compared to the monitoring event conducted in August 2014 (See hydrographs presented in Appendix C). The long term decreases in water levels have resulted in many wells becoming dry.

The groundwater flow direction in the northern portion of the regional aquifer is to the southeast, the groundwater flow in the central portion of the regional aquifer is southerly, and the southern regional aquifer, below the Dairies, flows toward the south. The gradient in the southern perched aquifer of the dairy near Anthony, New Mexico, flows southwest. The groundwater flow direction in the central portion is to the south. 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 8 of the 21 AP monitoring wells sampled. The AP wells that had nitrate concentrations above standards are DAD-08, DAD-10, DAD-11, DAD-12 (vertical delineation well), DAD-14, DAD-18 (vertical delineation well), DAD-19 (vertical delineation well), and DAD-20. Both chloride and TDS concentrations exceeded their respective NMWQCC standards in all 21 wells sampled except in well DAD-04 which had a chloride concentration of 185 mg/L which is below the NMWQCC standard of 250 mg/L.

Nitrate concentrations decreased in wells DAD-01, DAD-07, DAD-09, DAD-15, DAD-19, DAD-21, and DAD-22, while nitrate concentrations increased in wells DAD-02, DAD-04, DAD-05, DAD-08, DAD-10, DAD-11, DAD-12, DAD-13, DAD-14, DAD-16, DAD-17, DAD-18, and DAD-20. Well DAD-19 saw the largest decrease in nitrate concentrations decreasing from 41.0 mg/L in September 2014 to 10.7 mg/L for this monitoring event. Well DAD-11 increased from 11.1 mg/L in September 2014 to 19.9 mg/L; DAD-11 had the largest increase in nitrate concentrations since the last event. Nitrate concentrations in the AP wells ranged from below detection limits at <0.126 mg/L in well DAD-03 to 48.1 mg/L in well DAD-08 for this event.

Chloride concentrations and TDS in all wells remained relatively constant compared to levels measured in the past with the exception of wells DAD-03, DAD-04, DAD-11, DAD-20, DAD-21, and DAD-22. Chloride concentrations in well DAD-11 increased from 717 mg/L in September 2014 to 1,230 mg/L for this event, and TDS concentrations increased from 2,950 mg/L in September 2014 to 3,870 mg/L for this event. Chloride concentration in the AP wells range from 185 mg/L in well DAD-04 to 1,700 mg/L in well DAD-08 for this event, and TDS ranged from 1,260 mg/L in well DAD-04 to 5,930 mg/L in well 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 21 AP monitoring wells sampled and are plotted on Figures 6, 7, 8, and 9. 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-13 with a nitrate concentration of 9.14 mg/L. The upgradient well (northern land application well (70/86/340-01) had a nitrate concentration of 15.6 mg/L, which is slightly above the NMWQCC standard for nitrate (10 mg/L). All eastern cross-gradient wells (Dominguez #2 wells 42-10, 42-11, 42-12, and AP well DAD-01) have nitrate concentrations below the standard. The western delineating cross-gradient well Dominguez 624-05 had a nitrate concentration of 6.72 mg/L in February 2013; however, the well has remained dry for the last seven quarters. Nitrate concentrations in the well nearest to Dominguez well 624-05, Day Break (Dominguez #2) well 42-02, increased slightly from 7.62 mg/L in August 2014 to 8.21 mg/L, below NMWQCC standards, for this event.

The chloride and TDS concentrations are above standards in all wells sampled within the northern portion, with the exception of well Former D&J Dairy (Dominguez 2) well 42-08, with a chloride concentration below standards at 117 mg/L. The highest concentrations of chloride and TDS were observed in the Northern Land Application area well 70-03 at 2,530 mg/L and 6,360 mg/L, respectively.

Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy wells 833-07 and 833-09 at concentrations of 92.5 mg/L and 137 mg/L, respectively. The upgradient extent of the nitrate plume is defined in the central portion by Buena Vista Dairy II well 74-03; Sunset Dairy well 257-02 defines the downgradient extent of the plume. The eastern cross-gradient extent of the plume is defined by DAD-07 and DAD-15, and the western extent is defined by DAD-04, 167-01A, DAD-16, 167-08, 167-05, and 833-10 where nitrate concentrations remain below

standards in all of these wells.

Changes in nitrate concentrations are were generally variable and low-level in the central portion during this sampling event relative to previous sampling events, with the exception of notably lower nitrate concentrations in wells 74-01 and 833-08 and higher concentrations in samples collected from 833-02, 833-4, 833-06, and 833-09.

Chloride and TDS concentrations are above standards in all wells within the central portion with the exception of DAD-04. The highest chloride and TDS concentrations were observed at well DAD-08 at 1,700 mg/L and 5,930 mg/L, respectively. 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. All of the wells in the regional aquifer are below the NMWQCC standard of 10 mg/L, with the exception of DAD-10 which had a concentration of 12.8 mg/L during this sampling event on December 5, 2014.

In the shallow perched aquifer, the nitrate plume is not defined downgradient (southwest). The nitrate concentration in AP well DAD-20 was above NMWQCC standard at 20.8 mg/L. AP wells DAD-09, DAD-21, and DAD-22 remained below standards for this event at 4.27 mg/L, 5.03 mg/L, and 6.52 mg/L, respectively. The well with the highest nitrate concentration in the shallow perched aquifer is Del Oro Dairy well 692-02 with a concentration of 147 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 437 mg/L in Del Oro Dairy well 692-08 to 974 mg/L in well 692-02, while TDS ranged from 1,370 mg/L in Del Oro dairy well 692-08 to 3,430 mg/L in Del Oro Dairy well 692-02. Upgradient well Del Oro 692-09 had a chloride concentration of 444 mg/L and a TDS concentration of 1,420 mg/L.

4.0 CONCLUSION AND RECOMMENDATIONS

The groundwater monitoring event included the gauging of all DP and DAD wells and sampling of 21 DAD wells and the DP wells that contained sufficient water to sample. Based on the data collected, the following conclusions and recommendations are presented:

- The depth to groundwater at the site ranged from 12.94 to 132.31 feet below the top of casing.
- On average, water levels have either decreased slightly (in the northern and southern areas) or increased slightly (in the central area) since August 2014.
- The groundwater flow direction at the Dairies within the regional groundwater aquifer is south-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 12 of the 21 groundwater samples collected from the AP wells.
- Chloride was above the NMWQCC standard in all monitoring wells sampled, with the exception of Former D&J Dairy (Dominguez 2) well 42-08 with a concentration of 117 mg/L and AP well DAD-04 with a concentration of 185 mg/L.
- 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 DATA
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
NORTHERN AREA						
Northern Land Application Area						
70-03	5-Nov-2014	424580.78	1510233.88	3871.43	57.25	3814.18
	12-Aug-2014				57.24	3814.19
	12-May-2014				56.58	3814.85
	12-Feb-2014				55.26	3816.17
	6-Nov-2013				55.93	3815.50
	6-Aug-2013				54.52	3816.91
	7-May-2013				53.87	3817.56
	7-Feb-2013				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	5-Nov-2014	427320.92	1508461.05	3866.77	50.67	3816.10
	12-Aug-2014				50.38	3816.39
	12-May-2014				49.94	3816.83
	12-Feb-2014				48.95	3817.82
	6-Nov-2013				49.21	3817.56
	6-Aug-2013				46.44	3820.33
	7-May-2013				46.79	3819.98
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
86/340-01	5-Nov-2014	432021.33	1503216.90	3876.14	57.31	3818.83
	12-Aug-2014				57.28	3818.86
	12-May-2014				57.04	3819.10
	12-Feb-2014				55.10	3821.04
	6-Nov-2013				55.78	3820.36
	6-Aug-2013				53.29	3822.85
	7-May-2013				52.65	3823.49
	7-Feb-2013				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				
Organ Dairy (Formerly known as Del Norte Dairy and Daybreak Dairy)						
126-04	5-Nov-2014	423258.23	1510546.24	3850.31	35.62	3814.69
	12-Aug-2014				35.61	3814.70
	12-May-2014				34.98	3815.33
	12-Feb-2014				33.79	3816.52
	6-Nov-2013				34.32	3815.99
	6-Aug-2013				32.93	3817.38
	7-May-2013				32.01	3818.30
	7-Feb-2013				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 DATA
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
126-05	5-Nov-2014	422293.26	1510649.84	3842.62	27.95	3814.67
	12-Aug-2014				27.85	3814.77
	12-May-2014				27.63	3814.99
	12-Feb-2014				26.34	3816.28
	6-Nov-2013				26.67	3815.95
	6-Aug-2013				25.20	3817.42
	7-May-2013				24.65	3817.97
	7-Feb-2013				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	5-Nov-2014	423613.62	1509986.47	3850.94	36.34	3814.60
	12-Aug-2014				36.22	3814.72
	12-May-2014				35.52	3815.42
	12-Feb-2014				34.38	3816.56
	6-Nov-2013				34.89	3816.05
	6-Aug-2013				32.46	3818.48
	7-May-2013				32.33	3818.61
	7-Feb-2013				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 DATA
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
126-09	5-Nov-2014	425154.15	1510994.31	3893.35	78.21	3815.14
	12-Aug-2014				78.15	3815.20
	12-May-2014				77.70	3815.65
	12-Feb-2014				76.14	3817.21
	6-Nov-2013				76.91	3816.44
	6-Aug-2013				76.09	3817.26
	7-May-2013				75.40	3817.95
	7-Feb-2013				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	5-Nov-2014	421492.11	1510198.45	3838.88	23.65	3815.23
	14-Aug-2014				23.37	3815.51
	12-May-2014				23.60	3815.28
	12-Feb-2014				22.46	3816.42
	6-Nov-2013				22.39	3816.49
	6-Aug-2013				21.44	3817.44
	7-May-2013				21.05	3817.83
	7-Feb-2013				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 DATA
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
126-13	5-Nov-2014	423431.96	1510657.41	3857.37	42.63	3814.74
	12-Aug-2014				42.60	3814.77
	12-May-2014				42.04	3815.33
	12-Feb-2014				40.78	3816.59
	6-Nov-2013				41.35	3816.02
	6-Aug-2013				39.96	3817.41
	7-May-2013				39.01	3818.36
	7-Feb-2013				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	5-Nov-2014	423303.43	1510585.63	3851.84	37.17	3814.67
	12-Aug-2014				37.18	3814.66
	12-May-2014				36.56	3815.28
	12-Feb-2014				35.33	3816.51
	6-Nov-2013				35.67	3816.17
	6-Aug-2013				34.19	3817.65
	7-May-2013				34.06	3817.78
	7-Feb-2013				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 DATA
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
70-02	5-Nov-2014	423412.73	1511192.51	3861.25	46.67	3814.58
	13-Aug-2014				46.73	3814.52
	12-May-2014				46.08	3815.17
	12-Feb-2014				44.75	3816.50
	6-Nov-2013				45.31	3815.94
	6-Aug-2013				43.87	3817.38
	7-May-2013				43.16	3818.09
	7-Feb-2013				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	5-Nov-2014	422798.94	1510922.20	3849.81	35.20	3814.61
	13-Aug-2014				35.31	3814.50
	12-May-2014				34.81	3815.00
	12-Feb-2014				33.52	3816.29
	7-Nov-2013				34.05	3815.76
	6-Aug-2013				32.03	3817.78
	7-May-2013				31.80	3818.01
7-Feb-2013	31.85	3817.96				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Buena Vista Dairy I						
86-01	5-Nov-2014	421534.62	1511667.76	3864.96	50.40	3814.56
	13-Aug-2014				50.29	3814.67
	12-May-2014				50.20	3814.76
	17-Feb-2014				48.87	3816.09
	6-Nov-2013				42.33	3822.63
	6-Aug-2013				47.43	3817.53
	7-May-2013				47.21	3817.75
	7-Feb-2013				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				
86-02	5-Nov-2014	421792.08	1510881.53	3848.08	33.01	3815.07
	12-Aug-2014				32.62	3815.46
	12-May-2014				32.70	3815.38
	12-Feb-2014				31.62	3816.46
	6-Nov-2013				31.68	3816.40
	6-Aug-2013				30.37	3817.71
	7-May-2013				30.13	3817.95
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Bright Star Dairy						
340-01	5-Nov-2014	421410.13	1511423.42	3858.48	43.66	3814.82
	12-Aug-2014				43.32	3815.16
	12-May-2014				43.49	3814.99
	12-Feb-2014				42.30	3816.18
	6-Nov-2013				42.33	3816.15
	6-Aug-2013				41.21	3817.27
	7-May-2013				40.80	3817.68
	7-Feb-2013				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				
340-02	5-Nov-2014	420641.08	1512051.57	3869.76	55.05	3814.71
	12-Aug-2014				54.65	3815.11
	12-May-2014				54.80	3814.96
	12-Feb-2014				53.80	3815.96
	6-Nov-2013				53.59	3816.17
	6-Aug-2013				52.92	3816.84
	7-May-2013				52.34	3817.42
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Former D&J Dairy (Dominguez 2)						
42-02	10-Nov-2014	419982.45	1511126.19	3844.68575	28.96	3815.73
	13-Aug-2014				27.44	3817.25
	13-May-2014				28.53	3816.16
	12-Feb-2014				27.97	3816.72
	6-Nov-2013				26.34	3818.35
	14-Aug-2013				26.66	3818.03
	7-May-2013				26.53	3818.16
	7-Feb-2013				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				
42-03	10-Nov-2014	419710.55	1514064.35	3898.46	84.63	3813.83
	12-Aug-2014				84.73	3813.73
	13-May-2014				85.05	3813.41
	12-Feb-2014				83.40	3815.06
	6-Nov-2013				83.89	3814.57
	6-Aug-2013				82.46	3816.00
	7-May-2013				81.97	3816.49
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-06	10-Nov-2014	420021.61	1511465.15	3850.15	34.83	3815.32
	13-Aug-2014				33.65	3816.50
	13-May-2014				34.50	3815.65
	12-Feb-2014				33.85	3816.30
	6-Nov-2013				31.68	3818.47
	6-Aug-2013				31.24	3818.91
	7-May-2013				32.71	3817.44
	7-Feb-2013				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				
42-07	10-Nov-2014	420584.8	1513076.66	3891.52	Dry	
	13-Aug-2014				Dry	
	13-May-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b			
42-08	10-Nov-2014	419994.93	1511197.91	3846.53	30.97	3815.56			
	13-Aug-2014				29.54	3816.99			
	13-May-2014				30.68	3815.85			
	12-Feb-2014				29.98	3816.55			
	6-Nov-2013				28.26	3818.27			
	6-Aug-2013				27.97	3818.56			
	7-May-2013				28.69	3817.84			
	7-Feb-2013				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			
	42-09				8-Dec-2009	419729.17	1512255.76	3865.25	24.91
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						
10-Nov-2014		419729.17	1512255.76	3865.25	50.21				3815.04
12-Aug-2014					49.45				3815.80
13-May-2014					49.85				3815.40
12-Feb-2014					49.36				3815.89
6-Nov-2013					48.23				3817.02
6-Aug-2013					47.88				3817.37
7-May-2013					48.04				3817.21
7-Feb-2013	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							

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b			
42-10	10-Nov-2014	421426.39	1514460.4	3929.28	115.52	3813.76			
	14-Aug-2014				115.37	3813.91			
	13-May-2014				115.15	3814.13			
	12-Feb-2014				113.97	3815.31			
	6-Nov-2013				115.21	3814.07			
	6-Aug-2013				113.03	3816.25			
	7-May-2013				112.81	3816.47			
	7-Feb-2013				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			
	42-11				8-Dec-2009	420693.98	1515270.32	3939.31	109.41
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						
10-Nov-2014		420693.98	1515270.32	3939.31	125.97				3813.34
14-Aug-2014					125.85				3813.46
13-May-2014					125.27				3814.04
12-Feb-2014					123.96				3815.35
6-Nov-2013					125.37				3813.94
6-Aug-2013	124.06				3815.25				
7-May-2013	123.24				3816.07				
7-Feb-2013	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							

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-12	10-Nov-2014	420972.09	1515423.88	3945.83	132.31	3813.52
	14-Aug-2014				132.13	3813.70
	13-May-2014				131.63	3814.20
	12-Feb-2014				129.89	3815.94
	6-Nov-2013				131.11	3814.72
	6-Aug-2013				130.08	3815.75
	7-May-2013				129.59	3816.24
	7-Feb-2013				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
	42-13				8-Dec-2009	419734.06
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			
10-Nov-2014		57.27	3815.83			
12-Aug-2014		57.56	3815.54			
13-May-2014		57.95	3815.15			
17-Feb-2014		57.38	3815.72			
6-Nov-2013		56.31	3816.79			
6-Aug-2013	56.01	3817.09				
7-May-2013	56.02	3817.08				
7-Feb-2013	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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Dominguez Dairy						
624-01	10-Nov-2014	418826.21	1512131.46	3843.72	28.24	3815.48
	12-Aug-2014				26.64	3817.08
	12-May-2014				27.38	3816.34
	12-Feb-2014				28.10	3815.62
	7-Nov-2013				26.34	3817.38
	6-Aug-2013				25.98	3817.74
	7-May-2013				26.21	3817.51
	7-Feb-2013				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				
624-02	6-Nov-2014	417335.25	1512201.42	3835.45	19.65	3815.80
	12-Aug-2014				19.12	3816.33
	12-May-2014				19.00	3816.45
	12-Feb-2014				20.00	3815.45
	7-Nov-2013				18.60	3816.85
	6-Aug-2013				18.83	3816.62
	7-May-2013				19.01	3816.44
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-04	6-Nov-2014	418542.24	1508104.07	3835.69	Dry	
	12-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				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				
624-05	6-Nov-2014	419777.52	1509829.65	3835.27	Dry	
	12-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-06	6-Nov-2014	418502.42	1513981.08	3868.18	Dry	
	12-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				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				
624-07	6-Nov-2014	418012.23	1514707.77	3872.25	55.57	3816.68
	12-Aug-2014				55.68	3816.57
	12-May-2014				55.61	3816.64
	12-Feb-2014				55.62	3816.63
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-08	6-Nov-2014	421461.78	1507712.04	3838.70	Dry	
	12-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				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				
Gonzalez Dairy						
177-01	10-Nov-2014	417300.94	1512942.63	3834.27	19.12	3815.15
	13-Aug-2014				17.33	3816.94
	13-May-2014				18.53	3815.74
	12-Feb-2014				19.05	3815.22
	7-Nov-2013				17.97	3816.30
	6-Aug-2013				17.01	3817.26
	7-May-2013				17.81	3816.46
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
177-02	10-Nov-2014	416738.21	1513246.51	3834.66	19.80	3814.86
	13-Aug-2014				18.21	3816.45
	13-May-2014				19.24	3815.42
	12-Feb-2014				19.72	3814.94
	7-Nov-2013				18.66	3816.00
	6-Aug-2013				18.30	3816.36
	7-May-2013				18.69	3815.97
	7-Feb-2013				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				
177-03A	10-Nov-2014	416206.71	1513777.17	3835.75	21.61	3814.14
	13-Aug-2014				20.51	3815.24
	12-May-2014				21.60	3814.15
	12-Feb-2014				21.41	3814.34
	7-Nov-2013				20.29	3815.46
	6-Aug-2013				19.99	3815.76
	7-May-2013				20.53	3815.22
	7-Feb-2013				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

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
177-04	10-Nov-2014	416796.99	1513733.28	3840.33	25.75	3814.58
	13-Aug-2014				24.52	3815.81
	13-May-2014				25.46	3814.87
	12-Feb-2014				25.62	3814.71
	7-Nov-2013				24.75	3815.58
	6-Aug-2013				24.12	3816.21
	7-May-2013				24.67	3815.66
	7-Feb-2013				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				
177-05	10-Nov-2014	417302.42	1514116.55	3852.16	37.80	3814.36
	13-Aug-2014				36.70	3815.46
	13-May-2014				37.60	3814.56
	12-Feb-2014				37.51	3814.65
	6-Nov-2013				36.95	3815.21
	6-Aug-2013				36.02	3816.14
	7-May-2013				36.74	3815.42
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
177-06	5-Nov-2014	417301.84	1514765.63	3866.02	Dry	
	13-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				51.65	3814.37
	6-Aug-2013				51.11	3814.91
	7-May-2013				51.50	3814.52
	7-Feb-2013				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				
177-07R	10-Nov-2014	415240.93	1515476.47	3858.91	46.53	3812.38
	13-Aug-2014				45.50	3813.41
	13-May-2014				46.66	3812.25
	12-Feb-2014				45.90	3813.01
	7-Nov-2013				45.50	3813.41
	6-Aug-2013				45.51	3813.40
	7-May-2013				45.22	3813.69
	7-Feb-2013				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	5-Nov-2014	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	

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
CENTRAL AREA						
Buena Vista Diary II						
74-01	5-Nov-2014	405434.93	1519310.15	3841.01	36.66	3804.35
	13-Aug-2014				36.71	3804.30
	18-Jun-2014				37.09	3803.92
	12-Feb-2014				35.17	3805.84
	6-Nov-2013				35.77	3805.24
	6-Aug-2013				36.56	3804.45
	7-May-2013				35.02	3805.99
	7-Feb-2013				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				
Buena Vista Diary II Continued						
74-02	5-Nov-2014	404574.08	1519035.52	3820.58	17.16	3803.42
	13-Aug-2014				17.50	3803.08
	18-Jun-2014				18.13	3802.45
	12-Feb-2014				15.75	3804.83
	6-Nov-2013				17.07	3803.51
	6-Aug-2013				17.55	3803.03
	7-May-2013				16.22	3804.36
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
74-03	5-Nov-2014	407163.61	1516711.72	3823.36	15.67	3807.69
	13-Aug-2014				16.07	3807.29
	18-Jun-2014				16.73	3806.63
	12-Feb-2014				15.63	3807.73
	6-Nov-2013				15.53	3807.83
	6-Aug-2013				15.43	3807.93
	7-May-2013				14.85	3808.51
	7-Feb-2013				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				
74-04	5-Nov-2014	405488.65	1519864.48	3853.17	49.58	3803.59
	13-Aug-2014				49.12	3804.05
	18-Jun-2014				49.35	3803.82
	12-Feb-2014				47.75	3805.42
	6-Nov-2013				48.06	3805.11
	6-Aug-2013				48.55	3804.62
	7-May-2013				47.45	3805.72
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
74-05	5-Nov-2014	404747.71	1519885.3	3845.35	41.99	3803.36
	13-Aug-2014				42.28	3803.07
	18-Jun-2014				42.73	3802.62
	12-Feb-2014				40.76	3804.59
	6-Nov-2013				41.17	3804.18
	6-Aug-2013				41.80	3803.55
	7-May-2013				40.98	3804.37
	7-Feb-2013				39.40	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				
River Valley Dairy						
167-01	10-Nov-2014	402518.37	1518459.71	3818.94	17.86	3801.08
	13-Aug-2014				18.49	3800.45
	18-Jun-2014				19.77	3799.17
	12-Feb-2014				16.81	3802.13
	6-Nov-2013				18.82	3800.12
	6-Aug-2013				19.11	3799.83
	7-May-2013				18.43	3800.51
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-01A	5-Nov-2014	402518.18	1518936.72	3818.88	17.35	3801.53
	13-Aug-2014				18.34	3800.54
	18-Jun-2014				19.65	3799.23
	12-Feb-2014				16.79	3802.09
	6-Nov-2013				18.19	3800.69
	6-Aug-2013				18.54	3800.34
	7-May-2013				18.22	3800.66
	7-Feb-2013				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				
167-02	10-Nov-2014	402498.3	1519354.81	3819.64	Dry	
	13-Aug-2014				19.35	3800.29
	18-Jun-2014				Dry	
	12-Feb-2014				17.94	3801.70
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-03	10-Nov-2014	402981.73	1519415.73	3825.66	24.45	3801.21
	13-Aug-2014				24.81	3800.85
	18-Jun-2014				25.84	3799.82
	12-Feb-2014				23.04	3802.62
	6-Nov-2013				24.79	3800.87
	6-Aug-2013				25.27	3800.39
	7-May-2013				22.99	3802.67
	7-Feb-2013				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				
167-04	10-Nov-2014	402032.19	1519884.6	3827.60	26.18	3801.42
	13-Aug-2014				26.91	3800.69
	18-Jun-2014				27.94	3799.66
	12-Feb-2014				25.42	3802.18
	6-Nov-2013				26.38	3801.22
	6-Aug-2013				26.70	3800.90
	7-May-2013				25.59	3802.01
	7-Feb-2013				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				Well Damaged	
	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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-05	10-Nov-2014	397947.44	1520446.03	3815.44	16.84	3798.60
	13-Aug-2014				15.94	3799.50
	18-Jun-2014				17.19	3798.25
	12-Feb-2014				15.73	3799.71
	6-Nov-2013				15.75	3799.69
	6-Aug-2013				16.03	3799.41
	7-May-2013				15.42	3800.02
	7-Feb-2013				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				
167-06	10-Nov-2014	404479.35	1519603.88	3834.84	31.33	3803.51
	13-Aug-2014				32.08	3802.76
	18-Jun-2014				32.63	3802.21
	12-Feb-2014				30.42	3804.42
	6-Nov-2013				30.95	3803.89
	6-Aug-2013				31.73	3803.11
	7-May-2013				30.83	3804.01
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-07	10-Nov-2014	402562.23	1518480.34	3819.08	17.11	3801.97
	13-Aug-2014				18.47	3800.61
	18-Jun-2014				19.76	3799.32
	12-Feb-2014				16.88	3802.20
	6-Nov-2013				17.82	3801.26
	6-Aug-2013				18.25	3800.83
	7-May-2013				16.14	3802.94
	7-Feb-2013				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				
167-08	5-Nov-2014	399352.96	1519889.65	3817.96	18.31	3799.65
	13-Aug-2014				18.46	3799.50
	18-Jun-2014				19.71	3798.25
	12-Feb-2014				17.65	3800.31
	6-Nov-2013				17.68	3800.28
	6-Aug-2013				18.07	3799.89
	7-May-2013				16.99	3800.97
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-09	5-Nov-2014	398473.95	1519259.34	3817.00	16.78	3800.22
	13-Aug-2014				16.92	3800.08
	18-Jun-2014				17.69	3799.31
	12-Feb-2014				16.38	3800.62
	6-Nov-2013				15.91	3801.09
	6-Aug-2013				16.22	3800.78
	7-May-2013				16.09	3800.91
	7-Feb-2013				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				
Big Sky Dairy						
833-01	5-Nov-2014	399617.23	1521136.33	3839.55	Dry	
	12-Aug-2014				Dry	
	18-Jun-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				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				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-02	5-Nov-2014	401200.32	1520639.92	3836.04	35.48	3800.56
	12-Aug-2014				36.02	3800.02
	18-Jun-2014				36.72	3799.32
	12-Feb-2014				34.61	3801.43
	6-Nov-2013				34.80	3801.24
	6-Aug-2013				35.44	3800.60
	8-May-2013				35.13	3800.91
	7-Feb-2013				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				
833-03	5-Nov-2014	401392.09	1521955.23	3867.06	Dry	
	12-Aug-2014				Dry	
	18-Jun-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-04	5-Nov-2014	402898.52	1520659.33	3845.79	43.98	3801.81
	12-Aug-2014				44.62	3801.17
	18-Jun-2014				45.07	3800.72
	12-Feb-2014				43.19	3802.60
	6-Nov-2013				43.59	3802.20
	6-Aug-2013				44.00	3801.79
	8-May-2013				43.63	3802.16
	7-Feb-2013				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				
833-05	10-Nov-2014	399712.39	1522374.73	3865.51	66.10	3799.41
	12-Aug-2014				66.71	3798.80
	18-Jun-2014				66.83	3798.68
	12-Feb-2014				65.32	3800.19
	6-Nov-2013				65.29	3800.22
	6-Aug-2013				65.80	3799.71
	8-May-2013				65.19	3800.32
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-06	5-Nov-2014	402219.48	1522652.04	3878.20	75.96	3802.24
	12-Aug-2014				76.20	3802.00
	18-Jun-2014				76.18	3802.02
	12-Feb-2014				75.43	3802.77
	6-Nov-2013				75.12	3803.08
	6-Aug-2013				75.47	3802.73
	8-May-2013				74.67	3803.53
	7-Feb-2013				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-2011				72.16	3806.04
	17-Jan-2011				71.43	3806.77
	14-Sep-2010				72.05	3806.15
	22-Jun-2010				72.08	3806.12
	22-Mar-2010				72.00	3806.20
	8-Dec-2009				71.92	3806.28
	28-Aug-2009				72.22	3805.98
26-May-2009	72.02	3806.18				
10-Dec-2008	70.95	3807.25				
28-Sep-2008	70.87	3807.33				
10-Jun-2008	71.78	3806.42				
5-Feb-2008	71.47	3806.73				
833-07	10-Nov-2014	399298.8	1522082.75	3860.70	61.75	3798.95
	12-Aug-2014				62.28	3798.42
	18-Jun-2014				62.58	3798.12
	12-Feb-2014				60.88	3799.82
	6-Nov-2013				61.12	3799.58
	6-Aug-2013				61.45	3799.25
	8-May-2013				60.76	3799.94
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-08	10-Nov-2014	400535.64	1521938.23	3861.76	61.22	3800.54
	12-Aug-2014				61.97	3799.79
	18-Jun-2014				62.07	3799.69
	12-Feb-2014				60.68	3801.08
	6-Nov-2013				60.79	3800.97
	6-Aug-2013				61.07	3800.69
	8-May-2013				60.60	3801.16
	7-Feb-2013				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				
833-09	5-Nov-2014	398280.67	1520918.52	3826.27	27.74	3798.53
	12-Aug-2014				27.71	3798.56
	18-Jun-2014				28.71	3797.56
	12-Feb-2014				26.82	3799.45
	6-Nov-2013				27.49	3798.78
	6-Aug-2013				27.76	3798.51
	8-May-2013				27.31	3798.96
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-10	10-Nov-2014	396715.89	1520283.6	3820.76	22.95	3797.81
	12-Aug-2014				21.05	3799.71
	18-Jun-2014				22.37	3798.39
	12-Feb-2014				21.61	3799.15
	6-Nov-2013				21.76	3799.00
	6-Aug-2013				21.95	3798.81
	8-May-2013				22.26	3798.50
	7-Feb-2013				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				
Sunset/Desert Land Dairy						
257-01	10-Nov-2014	395856.31	1520572.16	3820.33	23.20	3797.13
	12-Aug-2014				22.50	3797.83
	18-Jun-2014				22.67	3797.66
	12-Feb-2014				21.67	3798.66
	6-Nov-2013				22.29	3798.04
	6-Aug-2013				22.52	3797.81
	7-May-2013				21.15	3799.18
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
257-02	10-Nov-2014	394728.34	1521030.29	3813.67	17.45	3796.22
	13-Aug-2014				16.50	3797.17
	18-Jun-2014				17.87	3795.80
	12-Feb-2014				15.78	3797.89
	6-Nov-2013				16.06	3797.61
	6-Aug-2013				15.95	3797.72
	7-May-2013				15.04	3798.63
	7-Feb-2013				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				
257-03	10-Nov-2014	397935.69	1518746.14	3814.74	Dry	
	13-Aug-2014				12.34	3802.40
	18-Jun-2014				12.21	3802.53
	12-Feb-2014				13.49	3801.25
	6-Nov-2013				11.04	3803.70
	6-Aug-2013				11.29	3803.45
	7-May-2013				12.98	3801.76
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
257/260-01	5-Nov-2014	397678.36	1519948.22	3814.04	14.93	3799.11
	13-Aug-2014				13.28	3800.76
	18-Jun-2014				14.53	3799.51
	12-Feb-2014				14.06	3799.98
	6-Nov-2013				14.01	3800.03
	14-Aug-2013				14.20	3799.84
	7-May-2013				13.83	3800.21
	7-Feb-2013				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				
Additional Wells						
Bruce1	18-Jul-2011	388741.02	1523777.06	3808.92	Destroyed	
	19-Apr-2011				11.17	3797.75
	17-Jan-2011				11.13	3797.79
	15-Sep-2010				10.38	3798.54
	23-Jun-2010				10.99	3797.93
	21-Mar-2010				11.50	3797.42
	8-Dec-2009				11.05	3797.87
	27-Aug-2009				10.41	3798.51
	27-May-2009				10.77	3798.15
	10-Dec-2008				11.28	3797.64
	27-Sep-2008				10.93	3797.99
	10-Jun-2008				11.28	3797.64
	5-Feb-2008				11.47	3797.45
Bruce2	5-Feb-2008	NM	NM	NM	Destroyed	
	10-Jun-2008				8.33	--

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
SOUTHERN AREA						
Del Oro Dairy						
692-01	5-Nov-2014	373615.88	1531529.38	3844.13	61.43	3782.70
	12-Aug-2014				61.27	3782.86
	13-May-2014				60.79	3783.34
	14-Feb-2014				60.38	3783.75
	6-Nov-2013				60.72	3783.41
	6-Aug-2013				60.30	3783.83
	7-May-2013				60.58	3783.55
	7-Feb-2013				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				
692-02	5-Nov-2014	372984.72	1531192.1	3840.84	59.27	3781.57
	12-Aug-2014				59.01	3781.83
	13-May-2014				58.51	3782.33
	14-Feb-2014				58.12	3782.72
	6-Nov-2013				57.91	3782.93
	6-Aug-2013				57.60	3783.24
	7-May-2013				57.39	3783.45
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-04	5-Nov-2014	372982.53	1531555.21	3842.66	60.44	3782.22
	12-Aug-2014				60.13	3782.53
	13-May-2014				59.66	3783.00
	14-Feb-2014				59.18	3783.48
	6-Nov-2013				59.03	3783.63
	6-Aug-2013				58.79	3783.87
	7-May-2013				58.68	3783.98
	7-Feb-2013				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				
692-05	5-Nov-2014	374807.26	1532403	3854.26	81.06	3773.20
	12-Aug-2014				81.02	3773.24
	13-May-2014				80.82	3773.44
	13-Feb-2014				79.21	3775.05
	6-Nov-2013				NM	NM
	14-Aug-2013				78.12	3776.14
	7-May-2013				79.43	3774.83
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-06	5-Nov-2014	375054.77	1532411.83	3856.48	82.91	3773.57
	12-Aug-2014				82.88	3773.60
	13-May-2014				81.84	3774.64
	14-Feb-2014				81.31	3775.17
	6-Nov-2013				82.18	3774.30
	6-Aug-2013				81.86	3774.62
	7-May-2013				81.22	3775.26
	7-Feb-2013				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				
692-07	5-Nov-2014	374944.88	1532019.81	3848.20	74.65	3773.55
	12-Aug-2014				74.94	3773.26
	13-May-2014				73.69	3774.51
	14-Feb-2014				73.14	3775.06
	6-Nov-2013				74.26	3773.94
	6-Aug-2013				73.92	3774.28
	7-May-2013				73.21	3774.99
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-08	5-Nov-2014	375535.69	1531378.09	3843.09	68.47	3774.62
	12-Aug-2014				68.72	3774.37
	13-May-2014				68.35	3774.74
	14-Feb-2014				67.81	3775.28
	6-Nov-2013				68.06	3775.03
	6-Aug-2013				68.52	3774.57
	14-May-2013				67.09	3776.00
	7-Feb-2013				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				
692-09	10-Nov-2014	373575.83	1532395.09	3856.32	83.56	3772.76
	14-Aug-2014				84.03	3772.29
	13-May-2014				83.59	3772.73
	17-Feb-2014				82.51	3773.81
	6-Nov-2013				83.73	3772.59
	6-Aug-2013				83.40	3772.92
	7-May-2013				82.64	3773.68
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Anthony Waste Water Treatment Plant						
MW-1	6-Nov-2014	372097.86	1532364.36	3843.03	60.79	3782.24
	12-Aug-2014				60.73	3782.30
	13-May-2014				60.65	3782.38
	14-Feb-2014				60.49	3782.54
	7-Nov-2013				60.28	3782.75
	7-Aug-2013				60.13	3782.90
	8-May-2013				59.72	3783.31
	7-Feb-2013				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				
MW-2	6-Nov-2014	NM	NM	3843.25	62.22	3781.03
	12-Aug-2014				62.09	3781.16
	13-May-2014				62.06	3781.19
	14-Feb-2014				62.04	3781.21
	7-Nov-2013				61.81	3781.44
	7-Aug-2013				62.07	3781.18
	8-May-2013				61.21	3782.04
	7-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
MW-3	6-Nov-2014	NM	NM	3841.24	Dry	
	12-Aug-2014				Dry	
	13-May-2014				Dry	
	14-Feb-2014				Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				59.29	3781.95
	8-May-2013				58.80	3782.44
	7-Feb-2013				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				
ABATEMENT PLAN MONITOR WELLS						
DAD-01	6-Nov-2014	422970.59	1512825.76	3886.16	72.07	3814.09
	12-Aug-2014				71.93	3814.23
	13-May-2014				71.48	3814.68
	12-Feb-2014				70.14	3816.02
	6-Nov-2013				70.64	3815.52
	7-Aug-2013				68.63	3817.53
	7-May-2013				68.48	3817.68
	8-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-02	6-Nov-2014	413002.98	1517319.93	3875.82	66.60	3809.22
	12-Aug-2014				66.55	3809.27
	13-May-2014				66.01	3809.81
	12-Feb-2014				65.42	3810.40
	7-Nov-2013				65.55	3810.27
	7-Aug-2013				65.01	3810.81
	8-May-2013				64.56	3811.26
	8-Feb-2013				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				
DAD-03	6-Nov-2014	407721.31	1516497.85	3820.58	12.94	3807.64
	12-Aug-2014				13.20	3807.38
	13-May-2014				13.39	3807.19
	17-Feb-2014				12.66	3807.92
	11-Dec-2013				12.67	3807.91
	14-Aug-2013				12.36	3808.22
	8-May-2013				11.87	3808.71
	8-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-04	6-Nov-2014	404576.66	1517413.28	3821.47	15.29	3806.18
	13-Aug-2014				15.81	3805.66
	13-May-2014				17.36	3804.11
	13-Feb-2014				15.45	3806.02
	7-Nov-2013				16.91	3804.56
	7-Aug-2013				17.11	3804.36
	8-May-2013				15.02	3806.45
	8-Feb-2013				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				
DAD-05	10-Nov-2014	396712.87	1519102.06	3816.01	17.25	3798.76
	13-Aug-2014				14.33	3801.68
	13-May-2014				17.24	3798.77
	13-Feb-2014				15.82	3800.19
	7-Nov-2013				15.39	3800.62
	7-Aug-2013				15.32	3800.69
	8-May-2013				15.78	3800.23
	8-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-06	6-Nov-2014	404273.19	1522081.00	3887.71	Dry	
	12-Aug-2014				Dry	
	13-May-2014				Dry	
	13-Feb-2014				Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				Dry	
	8-May-2013				82.79	3804.92
	8-Feb-2013				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				
DAD-07	6-Nov-2014	399270.18	1524320.88	3891.38	92.34	3799.04
	12-Aug-2014				92.12	3799.26
	13-May-2014				91.88	3799.50
	13-Feb-2014				91.37	3800.01
	7-Nov-2013				91.60	3799.78
	7-Aug-2013				91.19	3800.19
	8-May-2013				90.89	3800.49
	8-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-08	6-Nov-2014	395287.38	1522575.07	3849.15	52.61	3796.54
	13-Aug-2014				53.09	3796.06
	13-May-2014				53.98	3795.17
	13-Feb-2014				51.31	3797.84
	7-Nov-2013				51.50	3797.65
	7-Aug-2013				53.18	3795.97
	8-May-2013				52.43	3796.72
	8-Feb-2013				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				
DAD-09	6-Nov-2014	373259.30	1530905.70	3838.03	56.69	3781.34
	12-Aug-2014				56.57	3781.46
	13-May-2014				56.14	3781.89
	13-Feb-2014				55.65	3782.38
	7-Nov-2013				55.17	3782.86
	7-Aug-2013				55.35	3782.68
	7-May-2013				54.94	3783.09
	8-Feb-2013				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				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-10	6-Nov-2014	372980.55	1532375.33	3854.93	83.31	3771.62
	12-Aug-2014				83.25	3771.68
	13-May-2014				83.61	3771.32
	17-Feb-2014				81.59	3773.34
	7-Nov-2013				82.75	3772.18
	7-Aug-2013				82.78	3772.15
	7-May-2013				81.77	3773.16
	8-Feb-2013				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				
DAD-11 (177-03)	10-Nov-2014	416211.35	1513814.71	3835.90	21.80	3814.10
	13-Aug-2014				20.77	3815.13
	12-May-2014				21.34	3814.56
	12-Feb-2014				21.64	3814.26
	7-Nov-2013				20.76	3815.14
	7-Aug-2013				20.17	3815.73
	8-May-2013				20.70	3815.20
	8-Feb-2013				19.25	3816.65
	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	10-Nov-2014	419731.54	1512274.77	3866.72	51.93	3814.79
	13-Aug-2014				51.10	3815.62
	12-May-2014				51.43	3815.29
	12-Feb-2014				50.92	3815.80
	7-Nov-2013				50.49	3816.23
	7-Aug-2013				49.24	3817.48
	7-May-2013				49.66	3817.06
	8-Feb-2013				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

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-13	10-Nov-2014	417879.08	1515673.13	3898.44	85.74	3812.70
	13-Aug-2014				86.67	3811.77
	13-May-2014				87.24	3811.20
	12-Feb-2014				84.45	3813.99
	7-Nov-2013				85.43	3813.01
	14-Aug-2013				86.46	3811.98
	8-May-2013				84.96	3813.48
	8-Feb-2013				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
DAD-14	10-Nov-2014	414923.33	1514695.26	3841.90	29.50	3812.40
	13-Aug-2014				28.63	3813.27
	13-May-2014				29.68	3812.22
	12-Feb-2014				29.02	3812.88
	7-Nov-2013				28.44	3813.46
	7-Aug-2013				28.25	3813.65
	8-May-2013				28.15	3813.75
	8-Feb-2013				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	6-Nov-2014	402001.22	1523552.04	3897.61	95.11	3802.50
	14-Aug-2014				95.50	3802.11
	13-May-2014				95.47	3802.14
	12-Feb-2014				94.81	3802.80
	7-Nov-2013				95.08	3802.53
	7-Aug-2013				95.31	3802.30
	8-May-2013				94.35	3803.26
	8-Feb-2013				94.01	3803.60
	29-Oct-2012				93.78	3803.83
DAD-16	10-Nov-2014	400628.77	1519350.74	3819.28	18.94	3800.34
	13-Aug-2014				19.45	3799.83
	13-May-2014				20.31	3798.97
	13-Feb-2014				18.45	3800.83
	7-Nov-2013				18.94	3800.34
	7-Aug-2013				19.06	3800.22
	8-May-2013				18.49	3800.79
	8-Feb-2013				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	10-Nov-2014	393991.97	1520267.94	3817.75	21.76	3795.99
	13-Aug-2014				20.32	3797.43
	13-May-2014				23.32	3794.43
	12-Feb-2014				20.05	3797.70
	7-Nov-2013				20.21	3797.54
	7-Aug-2013				19.75	3798.00
	13-May-2013				19.37	3798.38
	8-Feb-2013				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

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b				
DAD-18	10-Nov-2014	395714.14	1520588.96	3821.59	24.90	3796.69				
	12-Aug-2014				22.93	3798.66				
	13-May-2014				25.33	3796.26				
	17-Feb-2014				23.03	3798.56				
	7-Nov-2013				23.25	3798.34				
	7-Aug-2013				24.23	3797.36				
	13-May-2013				22.97	3798.62				
	8-Feb-2013				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	10-Nov-2014	400164.47	1522027.92	3864.50	64.50	3800.00				
	12-Aug-2014				65.29	3799.21				
	13-May-2014				65.26	3799.24				
	12-Feb-2014				63.99	3800.51				
	7-Nov-2013				64.11	3800.39				
	7-Aug-2013				64.46	3800.04				
	14-May-2013				63.75	3800.75				
	8-Feb-2013				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	6-Nov-2014	371751.45	1531188.19	3833.27	54.44	3778.83				
	12-Aug-2014				54.26	3779.01				
	13-May-2014				54.20	3779.07				
	13-Feb-2014				53.54	3779.73				
	7-Nov-2013				53.70	3779.57				
	7-Aug-2013				53.43	3779.84				
	8-May-2013				52.88	3780.39				
	8-Feb-2013				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				
	DAD-21				6-Nov-2014	374013.39	1530983.98	3839.62	56.97	3782.65
					12-Aug-2014				56.82	3782.80
13-May-2014		56.42	3783.20							
17-Feb-2014		55.97	3783.65							
7-Nov-2013		55.89	3783.73							
7-Aug-2013		55.81	3783.81							
7-May-2013		55.43	3784.19							
8-Feb-2013		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							

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-22	6-Nov-2014	373029.62	1530352.69	3827.14	47.14	3780.00
	12-Aug-2014				46.98	3780.16
	13-May-2014				46.56	3780.58
	17-Feb-2014				46.18	3780.96
	7-Nov-2013				45.73	3781.41
	7-Aug-2013				45.77	3781.37
	14-May-2013				44.09	3783.05
	8-Feb-2013				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 H ₂ SO ₄ = Sulfuric Acid HDPE = High-density polyethylene mL = milliliters				

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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	3-Dec-14	6.53	<1.80	468	1,780	NA	
	29-Aug-14	8.28	<1.80	425	1,830	NA	
	3-Jun-14	6.13	<1.80	491	2,020	NA	
	10-Mar-14	5.76	<1.66	496	1,780	NA	
	11-Dec-13	7.61	3.50	471	1,760	NA	
	10-Sep-13	4.43	2.80	472	1,920	NA	
	16-May-13	10.4	<1.66	408	1,930	NA	
	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	
	NMED Split	21-Mar-10	6.3	<5.0	500	1,780	NA
		9-Dec-09	7.5	1.5	550	2,010	NA
9-Dec-09		7.3	2.8	468	356	264	
29-Aug-09		7.3	<5.0	540	1,970	NA	
12-May-09		5.6	<1.0	540	1,800	NA	
DAD-02	3-Dec-14	8.47	<1.80	542	1,710	NA	
	29-Aug-14	7.05	<1.80	451	1,690	NA	
	3-Jun-14	5.18	<1.80	506	1,640	NA	
	10-Mar-14	7.75	<1.66	463	1,620	NA	
	11-Dec-13	7.91	2.80	443	1,540	NA	
	9-Sep-13	7.14	<1.66	337	1,900	NA	
	16-May-13	9.19	<1.66	393	1,750	NA	
	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	

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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-03	3-Dec-14	<0.126	<1.80	569	2,560	NA	
	29-Aug-14	<0.126	<1.80	686	2,890	NA	
	9-Jun-14	<0.187	<1.80	838	3,410	NA	
	10-Mar-14	0.906	<1.66	917	3,480	NA	
	11-Dec-13	<0.213	<1.66	932	3,180	NA	
	10-Sep-13	Did Not Contain Enough Water to Sample					
	16-May-13	1.07	<1.66	1,400	4,420	NA	
	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	1,100	
	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	
	NMED Split	21-Mar-10	<10	<1.0	2,200	5,620	NA
		9-Dec-09	<10	<5.0	2,100	5,590	NA
9-Dec-09		<0.1	0.88	1,570	5,300	1,160	
29-Aug-09		<0.10	<5.0	1,400	4,420	NA	
12-May-09		<10	<5.0	1,200	5,000	NA	
DAD-04		3-Dec-14	1.65	<1.80	185	1,260	NA
		29-Aug-14	<0.126	<1.80	483	2,060	NA
		3-Jun-14	0.988	3.50	740	2,810	NA
	10-Mar-14	1.01	<1.66	694	2,600	NA	
	11-Dec-13	1.69	<1.66	604	2,400	NA	
	5-Sep-13	0.827	9.10	544	2,710	NA	
	16-May-13	<0.0420	<1.66	613	2,320	NA	
	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 WELL 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	3-Dec-14	2.55	<1.80	273	1,300	NA
	29-Aug-14	1.87	<1.80	230	1,200	NA
	3-Jun-14	2.20	<1.80	497	2,000	NA
	10-Mar-14	4.81	<1.66	312	1,510	NA
	12-Dec-13	0.898	2.80	72.9	695	NA
	5-Sep-13	2.16	4.90	120	870	NA
	29-May-13	2.44	<1.66	582	2,580	NA
	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
	NMED Split	9-Dec-09	<2.0	1.3	710	2,420
9-Dec-09		<0.1	0.95	563	2,290	362
29-Aug-09		<2.0	<2.0	630	2,310	NA
13-May-09		<2.0	<5.0	640	2,700	NA
Duplicate	13-May-09	<10	1.6	618	2,260	NA
DAD-06	4-Dec-14	Dry				
	12-Aug-14	Dry				
	13-May-14	Dry				
	10-Mar-14	Dry				
	11-Dec-13	Dry				
	5-Sep-13	Dry				
	30-May-13	6.07	<1.66	508	1,690	NA
	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	262
	29-Aug-09	8.2	<5.0	390	1,260	NA
	14-May-09	11	<5.0	350	1,300	NA
	Duplicate	14-May-09	8.17	0.4	338	1,250

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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-07	3-Dec-14	6.85	<1.80	607	2,180	NA
	2-Sep-14	7.48	<1.80	589	2,150	NA
	12-Jun-14	5.44	<1.80	540	2,020	NA
	11-Mar-14	4.84	2.10	512	1,980	NA
	11-Dec-13	7.94	<1.66	700	2,270	NA
	5-Sep-13	7.01	3.50	650	2,380	NA
	24-May-13	8.42	<1.66	720	2,570	NA
	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
	NMED Split	9-Dec-09	5.4	<1.0	620	1,900
9-Dec-09		5.2	<0.1	536	1,870	403
29-Aug-09		4.4	<5.0	610	1,780	NA
14-May-09		4.6	<1.0	530	1,800	NA
DAD-08	3-Dec-14	48.1	<1.80	1,700	5,930	NA
	2-Sep-14	39.5	<1.80	1,700	5,220	NA
	4-Jun-14	55.8	2.10	2,210	5,840	NA
	11-Mar-14	71.7	<1.66	2,450	6,400	NA
	12-Dec-13	70.7	2.80	2,500	6,780	NA
	5-Sep-13	74.9	2.80	2,440	7,440	NA
	24-May-13	71.5	<1.66	2,140	6,740	NA
	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
	NMED Split	9-Dec-09	<4.0	<1.0	1,400	3,290
9-Dec-09		3.1	0.26	1,400	3,070	509
29-Aug-09		<4.0	<2.0	1,500	3,180	NA
14-May-09		3.0	<5.0	1,300	3,600	NA

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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	5-Dec-14	4.27	<1.80	495	1,800	NA
	28-Aug-14	5.25	<1.80	466	1,720	NA
	4-Jun-14	3.14	<1.80	440	1,580	NA
	18-Mar-14	3.44	<1.66	418	1,480	NA
	16-Dec-13	17.4	<1.66	294	1,200	NA
	30-Aug-13	12.3	2.10	454	1,800	NA
	30-May-13	9.69	<1.66	435	1,740	NA
	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
	NMED Split	9-Dec-09	26	<5.0	300	1,190
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	5-Dec-14	12.8	<1.80	461	1,720	NA
	3-Oct-14	12.5	<1.80	419	1,720	NA
	28-Aug-14	17.0	<1.80	445	1,740	NA
	9-Jun-14	6.86	<1.80	454	1,560	NA
	18-Mar-14	7.79	<1.66	475	1,620	NA
	16-Dec-13	8.34	4.90	475	1,600	NA
	5-Sep-13	6.01	3.50	451	1,480	NA
	23-May-13	5.42	<1.66	453	1,450	NA
	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
NMED Split	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

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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-11 Vertical Delineation (formerly 177-03)	5-Dec-14	19.9	<1.80	1,230	3,870	NA
	3-Sep-14	11.10	<1.80	717	2,950	NA
	6-Jun-14	1.31	4.90	477	1,860	NA
	17-Mar-14	12.0	<1.66	890	3,230	NA
	16-Dec-13	15.0	2.10	1,170	3,790	NA
	9-Sep-13	13.6	2.80	1,080	3,560	NA
	29-May-13	15.7	<1.66	1,110	3,600	NA
	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	4-Dec-14	19.0	<1.80	620	2,760	NA
	3-Sep-14	18.6	<1.80	588	2,700	NA
	9-Jun-14	19.3	<1.80	603	2,750	NA
	17-Mar-14	20.5	<1.66	621	2,890	NA
	13-Dec-13	18.5	2.10	638	2,840	NA
	10-Sep-13	18.1	2.80	557	2,950	NA
	29-May-13	18.2	<1.66	686	3,130	NA
	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	4-Dec-14	9.14	<1.80	581	2,160	NA
	2-Sep-14	6.51	<1.80	386	1,960	NA
	9-Jun-14	5.82	<1.80	507	2,000	NA
	17-Mar-14	6.59	<3.32	528	1,960	NA
	13-Dec-13	5.83	<1.66	546	1,940	NA
	9-Sep-13	3.42	2.80	524	1,800	NA
	29-May-13	5.00	<1.66	550	2,020	NA
	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	

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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-14	4-Dec-14	30.3	<1.80	933	3,200	NA
	2-Sep-14	26.7	2.10	878	3,240	NA
	6-Jun-14	29.6	<1.80	943	3,340	NA
	17-Mar-14	41.3	<1.66	1,040	3,620	NA
	13-Dec-13	31.9	<1.66	929	3,160	NA
	9-Sep-13	29.2	3.50	1,010	3,590	NA
	29-May-13	34.6	<1.66	1,030	3,520	NA
	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	
DAD-15	4-Dec-14	5.79	<1.80	508	1,730	NA
	2-Sep-14	5.97	<1.80	489	1,620	NA
	6-Jun-14	6.09	<1.80	510	1,750	NA
	2-Jan-14	4.72	2.10	497	1,780	NA
	10-Sep-13	7.56	3.50	356	1,740	NA
	29-May-13	5.29	<1.66	504	1,970	NA
	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	4-Dec-14	2.79	<1.80	679	2,220	NA
	2-Sep-14	2.44	<1.80	579	2,300	NA
	3-Jun-14	1.49	2.10	569	2,260	NA
	10-Mar-14	1.65	<1.66	573	2,100	NA
	12-Dec-13	1.28	2.10	561	2,210	NA
	9-Sep-13	0.832	4.20	538	2,260	NA
	29-May-13	1.68	<1.66	501	2,200	NA
	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-Dec-14	6.87	<1.80	451	1,820	NA
	3-Sep-14	2.48	<1.80	442	1,920	NA
	3-Jun-14	1.03	<1.80	525	2,600	NA
	11-Mar-14	3.27	<3.32	440	1,820	NA
	12-Dec-13	2.45	2.80	412	1,640	NA
	9-Sep-13	0.370	2.10	451	2,340	NA
	24-May-13	0.827	<1.66	317	1,400	NA
	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	

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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-18 Vertical Delineation	5-Dec-14	19.3	<1.80	623	2,780	NA	
	3-Sep-14	12.1	<1.80	713	2,960	NA	
	3-Jun-14	13.2	<1.80	749	2,760	NA	
	11-Mar-14	12.8	<1.66	739	2,880	NA	
	12-Dec-13	11.8	2.10	719	2,840	NA	
	9-Sep-13	10.9	2.80	697	3,040	NA	
	29-May-13	11.9	<1.66	734	3,020	NA	
	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	5-Dec-14	10.7	<1.80	782	2,670	NA	
	3-Sep-14	41.0	<1.80	899	3,240	NA	
	4-Jun-14	54.3	<1.80	914	3,220	NA	
	18-Mar-14	50.3	<1.66	861	3,130	NA	
	12-Dec-13	48.9	2.10	930	3,240	NA	
	9-Sep-13	54.6	<1.66	1,260	3,270	NA	
	30-May-13	71.3	<1.66	951	3,560	NA	
	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	4-Dec-14	20.8	<1.80	806	2,240	NA	
	28-Aug-14	19.3	<1.80	603	2,400	NA	
	9-Jun-14	20.4	<1.80	773	2,470	NA	
	18-Mar-14	20.6	<1.66	665	2,120	NA	
	16-Dec-13	20.2	2.10	732	2,140	NA	
	5-Sep-13	19.2	5.60	808	2,870	NA	
	23-May-13	25.2	<1.66	707	2,320	NA	
	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	4-Dec-14	5.03	<1.80	465	1,760	NA	
	28-Aug-14	13.0	<1.80	520	2,080	NA	
	4-Jun-14	15.0	<1.80	532	2,180	NA	
	18-Mar-14	18.1	<1.66	592	2,140	NA	
	16-Dec-13	16.9	<1.66	568	1,890	NA	
	5-Sep-13	12.0	4.20	583	1,990	NA	
	24-May-13	6.73	<1.66	509	1,960	NA	
	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		

**TABLE 3. ABATEMENT PLAN MONITORING WELL 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-22	3-Dec-14	6.52	<1.80	915	2,480	NA
	28-Aug-14	6.60	<1.80	810	2,420	NA
	6-Jun-14	6.80	<1.80	906	2,480	NA
	18-Mar-14	6.38	<1.66	846	2,420	NA
	13-Dec-13	6.35	<1.66	909	2,440	NA
	5-Sep-13	Did Not Contain Enough Water to Sample				
	24-May-13	9.29	<1.66	920	2,580	NA
	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)
NMWQCC Standard		10	NA	250	1,000
Northern Area					
Northern Land Application Area					
70-03	14-Nov-14	49.1	<1.80	2,530	6,360
	20-Aug-14	49.8	<1.80	2,590	7,000
	15-May-14	48.6	<1.80	2,580	6,880
	19-Feb-14	57.1	<1.66	3,400	8,380
	14-Nov-13	45.4	3.50	2,680	6,800
	9-Aug-13	48.7	3.50	2,740	6,890
	9-May-13	58.4	<1.66	3,290	9,200
	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	12-Nov-14	15.6	<1.80	2,090	6,320
	15-Aug-14	15.3	<1.80	1,730	5,780
	11-Nov-13	6.65	4.90	1,760	4,780
	8-Aug-13	15.1	3.50	2,190	6,920
	9-May-13	15.1	<1.66	1,930	6,650
	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	

**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)
86/340-01	11-Nov-14	11.3	<1.80	398	2,180
	15-Aug-14	11.6	<1.80	400	2,300
	14-May-14	15.4	<1.80	500	2,380
	18-Feb-14	12.4	<1.66	460	2,370
	11-Nov-13	12.2	7.00	641	2,940
	8-Aug-13	12.1	2.10	720	3,230
	9-May-13	12.3	<1.66	603	3,020
	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	
Organ Dairy (Formerly known as Del Norte Dairy and Daybreak Dairy)					
126-04	12-Nov-14	16.4	7.70	556	2,400
	18-Aug-14	15.1	<1.80	536	2,590
	15-May-14	17.4	16.1	514	2,200
	20-Feb-14	17.1	<1.66	564	2,410
	13-Nov-13	16.7	9.10	567	2,240
	12-Aug-13	15.3	18.2	511	2,170
	10-May-13	15.1	<1.66	499	2,310
	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	

**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)
126-05	12-Nov-14	19.2	5.60	746	3,500
	18-Aug-14	16.4	<1.80	575	3,080
	15-May-14	23.0	4.90	637	2,960
	20-Feb-14	27.1	<1.66	643	3,140
	13-Nov-13	30.3	4.20	648	3,100
	12-Aug-13	33.9	4.20	594	2,920
	10-May-13	39.0	<1.66	635	3,060
	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-Nov-14	23.4	<1.80	586	2,710
	18-Aug-14	21.8	<1.80	565	2,510
	16-May-14	24.8	4.90	583	2,170
	20-Feb-14	25.6	<1.66	615	2,490
	13-Nov-13	24.1	4.20	615	2,330
	12-Aug-13	23.5	5.60	586	2,410
	10-May-13	20.2	<1.66	573	2,620
	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	13-Nov-14	2.42	<1.80	842	2,500
	18-Aug-14	2.25	<1.80	832	2,840
	15-May-14	2.52	<1.80	893	2,690
	20-Feb-14	2.12	<1.66	911	2,720
	13-Nov-13	2.25	4.20	919	2,710
	12-Aug-13	2.13	5.60	937	2,710
	10-May-13	2.25	<1.66	898	3,300
	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	13-Nov-14	2.57	2.80	409	2,160
	18-Aug-14	16.5	<1.80	384	2,220
	15-May-14	15.4	2.10	404	2,250
	20-Feb-14	13.6	2.10	404	2,370
	13-Nov-13	15.7	3.50	401	2,360
	12-Aug-13	17.0	4.20	434	2,400
	10-May-13	16.2	2.10	398	2,380
	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	

**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)
126-13	12-Nov-14	33.9	<1.80	801	2,940
	18-Aug-14	38.2	<1.80	809	3,160
	15-May-14	49.5	<1.80	841	3,010
	20-Feb-14	29.9	<1.66	769	2,780
	13-Nov-13	28.0	2.80	655	2,980
	12-Aug-13	26.8	3.50	780	2,800
	10-May-13	34.1	<1.66	385	3,160
	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	
Mountain View Dairy					
70-01	17-Nov-14	22.0	<1.80	621	2,620
	20-Aug-14	22.5	<1.80	596	2,610
	15-May-14	23.3	2.10	632	2,540
	19-Feb-14	22.6	<1.66	616	2,620
	14-Nov-13	22.3	3.50	510	2,620
	8-Aug-13	22.8	2.80	638	2,670
	9-May-13	22.4	<1.66	616	2,740
	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	

**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)
70-02	17-Nov-14	37.4	<1.80	793	3,180
	20-Aug-14	35.8	<1.80	766	3,160
	14-May-14	37.0	<1.80	781	3,220
	19-Feb-14	36.9	<1.66	793	3,160
	14-Nov-13	36.1	4.90	837	3,200
	9-Aug-13	20.9	29.4	815	2,890
	9-May-13	37.4	<1.66	790	3,260
	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	17-Nov-14	20.2	<1.80	375	2,720
	20-Aug-14	24.4	<1.80	577	2,950
	15-May-14	24.6	<1.80	610	2,630
	19-Feb-14	22.3	<1.66	607	2,580
	14-Nov-13	21.0	2.80	649	2,630
	9-Aug-13	21.7	4.20	636	2,780
	9-May-13	23.0	<1.66	630	3,510
	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	12-Nov-14	49.9	<1.80	337	2,630
	15-Aug-14	37.9	<1.80	383	2,800
	14-May-14	27.4	<1.80	608	2,770
	20-Feb-14	29.1	2.80	564	2,800
	11-Nov-13	29.2	3.50	600	2,800
	8-Aug-13	28.6	4.90	694	2,000
	9-May-13	31.1	<1.66	577	3,700
	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	12-Nov-14	90.1	<1.80	807	3,320
	15-Aug-14	84.4	<1.80	772	3,420
	14-May-14	84.6	<1.80	793	3,130
	20-Feb-14	86.8	<1.66	806	3,080
	11-Nov-13	87.0	3.50	807	3,160
	8-Aug-13	80.2	4.90	794	3,180
	9-May-13	74.6	<1.66	744	3,180
	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	

**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 D&J Dairy (Dominguez 2)					
42-02	18-Nov-14	8.21	<1.80	461	2,400
	26-Aug-14	7.62	<1.80	477	2,350
	21-May-14	10.2	2.10	498	2,460
	26-Feb-14	9.28	<1.66	469	2,180
	26-Nov-13	9.62	2.10	490	2,260
	20-Aug-13	14.5	4.90	459	2,360
	14-May-13	12.0	<1.66	432	2,220
	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	
42-03	18-Nov-14	73.2	16.1	1,040	3,560
	26-Aug-14	78.0	<1.80	891	3,360
	21-May-14	62.6	<1.80	1,100	3,720
	26-Feb-14	62.8	<1.66	1,070	3,160
	26-Nov-13	62.9	2.80	1,090	3,660
	15-Aug-13	67.5	17.5	1,090	3,560
	14-May-13	59.6	<1.66	1,150	3,800
	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	

**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)
42-06	18-Nov-14	94.6	<1.80	302	2,160
	13-Aug-14	83.6	<1.80	302	2,220
	21-May-14	87.9	2.80	395	2,440
	26-Feb-14	59.3	<1.66	417	2,380
	26-Nov-13	76.3	2.10	397	2,270
	20-Aug-13	95.1	4.90	432	2,580
	14-May-13	86.5	<1.66	413	2,390
	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	18-Nov-14	Dry			
	26-Aug-14	Dry			
	22-May-14	Dry			
	26-Feb-14	Dry			
	26-Nov-13	Dry			
	15-Aug-13	Dry			
	14-May-13	Dry			
	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	18-Nov-14	47.3	<1.80	117	1,440
	26-Aug-14	36.1	<1.80	159	1,500
	21-May-14	33.1	<1.80	149	1,470
	26-Feb-14	32.6	<1.66	251	1,790
	26-Nov-13	30.8	2.10	275	1,780
	20-Aug-13	30.3	6.30	292	2,000
	14-May-13	29.9	<1.66	259	1,880
	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	18-Nov-14	46.4	<1.80	722	3,000
	26-Aug-14	46.5	<1.80	674	3,000
	22-May-14	59.3	<1.80	699	3,060
	26-Feb-14	53.5	<1.66	715	3,030
	26-Nov-13	51.2	2.80	731	3,030
	15-Aug-13	56.1	37.8	725	3,010
	14-May-13	51.6	<1.66	717	3,200
	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	

**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)
42-10	19-Nov-14	1.08	11.9	441	1,340
	26-Aug-14	1.08	<1.80	410	1,340
	22-May-14	1.25	<1.80	457	1,420
	26-Feb-14	0.982	<1.66	416	1,400
	26-Nov-13	1.10	2.10	435	1,420
	20-Aug-13	0.991	9.10	423	1,540
	14-May-13	0.976	<1.66	395	1,400
	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	
42-11	19-Nov-14	1.83	2.10	316	1,170
	27-Aug-14	1.78	6.30	295	1,200
	22-May-14	1.87	<1.80	312	1,120
	26-Feb-14	1.44	<1.66	339	1,280
	26-Nov-13	1.43	2.80	344	1,260
	20-Aug-13	1.50	2.80	334	1,280
	14-May-13	1.78	<1.66	303	1,220
	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	0.47	2.38	285	1,300
	1-Oct-10	0.62	<10.0	300	1,250
	27-Jun-10	3.90	<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	0.70	300	1,080	
14-Mar-09	0.90	<0.2	310	1,225	

**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)
42-12	19-Nov-14	2.10	<1.80	333	1,220
	26-Aug-14	1.96	48.3	319	1,290
	22-May-14	2.18	<1.80	337	1,160
	26-Feb-14	1.87	<1.66	336	1,180
	26-Nov-13	1.95	2.10	341	1,160
	20-Aug-13	1.77	3.50	337	1,200
	14-May-13	1.73	<1.66	319	1,170
	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	18-Nov-14	54.6	<1.80	855	3,360
	27-Aug-14	77.9	2.10	927	3,490
	22-May-14	50.9	<1.80	873	3,560
	26-Feb-14	50.0	<1.66	871	3,340
	26-Nov-13	49.8	3.50	895	3,260
	15-Aug-13	59.9	3.50	891	3,380
	14-May-13	49.7	<1.66	809	3,320
	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	17-Nov-14	11.2	<1.80	790	2,620
	19-Aug-14	11.8	<1.80	794	2,590
	20-May-14	23.2	4.90	1,050	3,320
	25-Feb-14	18.6	<1.66	950	3,080
	19-Nov-13	23.6	2.10	1,080	3,250
	14-Aug-13	15.4	3.50	970	2,990
	13-May-13	20.8	<1.66	894	2,720
	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	18-Nov-14	15.6	<1.80	912	3,100
	19-Aug-14	13.9	<1.80	995	3,380
	20-May-14	12.7	2.10	1,010	3,350
	25-Feb-14	12.4	<1.66	965	3,320
	19-Nov-13	12.6	9.10	969	3,200
	14-Aug-13	11.4	4.20	1,030	3,350
	13-May-13	9.98	<1.66	950	3,360
	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	

**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)
624-04	18-Nov-14	Dry			
	19-Aug-14	Dry			
	20-May-14	Dry			
	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	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	
624-05	18-Nov-14	Dry			
	19-Aug-14	Dry			
	20-May-14	Dry			
	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	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	

**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)
624-06	18-Nov-14	Dry			
	19-Aug-14	Dry			
	20-May-14	Dry			
	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	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	17-Nov-14	Dry			
	19-Aug-14	Not Sampled - insufficient water to sample			
	20-May-14	Dry			
	26-Feb-14	Not Sampled - insufficient water to sample			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	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	18-Nov-14	Dry			
	19-Aug-14	Dry			
	20-May-14	Dry			
	26-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	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	13-Nov-14	34.6	<1.80	1,330	3,780
	18-Aug-14	30.5	2.80	1,100	3,780
	16-May-14	33.8	<1.80	1,380	3,840
	21-Feb-14	33.7	<1.66	1,310	3,870
	18-Nov-13	33.2	2.80	1,330	3,740
	13-Aug-13	32.2	4.20	1,370	3,850
	15-May-13	31.6	<1.66	1,300	3,940
	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	

**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)
177-02	14-Nov-14	16.3	<1.80	931	2,930
	18-Aug-14	17.1	<1.80	864	2,810
	16-May-14	43.0	<1.80	803	2,980
	21-Feb-14	67.9	<1.66	725	3,180
	18-Nov-13	111	2.80	682	3,150
	13-Aug-13	30.7	4.20	794	3,020
	15-May-13	27.6	<1.66	910	3,000
	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	
177-03A	13-Nov-14	0.993	<1.80	486	1,780
	19-Aug-14	10.9	<1.80	859	2,720
	19-May-14	11.4	<1.80	950	3,220
	24-Feb-14	15.6	2.10	1,160	3,900
	18-Nov-13	14.3	2.10	1,150	3,490
	13-Aug-13	17.1	2.80	1,230	4,120
	15-May-13	16.0	<1.66	1,150	3,530
	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	

**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)
177-04	13-Nov-14	22.5	<1.80	1,190	3,680
	19-Aug-14	18.2	<1.80	1,150	3,830
	19-May-14	17.5	<1.80	1,320	3,970
	24-Feb-14	17.6	<1.66	1,290	4,020
	18-Nov-13	23.0	2.80	1,260	3,850
	13-Aug-13	19.1	2.10	1,270	3,530
	15-May-13	19.4	<1.66	1,110	3,600
	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	13-Nov-14	56.1	<1.80	1,110	3,260
	19-Aug-14	18.1	<1.80	1,680	4,800
	19-May-14	35.7	<1.80	1,400	4,000
	24-Feb-14	26.6	<1.66	1,600	4,460
	18-Nov-13	33.5	2.10	1,580	4,360
	13-Aug-13	30.5	2.80	1,640	4,420
	15-May-13	29.8	<1.66	1,510	4,160
	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	13-Nov-14	Dry			
	13-Aug-14	Dry			
	13-Aug-14	Dry			
	19-May-14	Dry			
	24-Feb-14	Dry			
	21-Nov-13	24.1	14.0	1,080	3,110
	18-Nov-13	Insufficient Water to Sample			
	13-Aug-13	Insufficient Water to Sample			
	15-May-13	Insufficient Water to Sample			
	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	14-Nov-14	45.3	<1.80	1,070	3,250
	19-Aug-14	28.2	<1.80	980	3,120
	19-May-14	22.7	2.10	895	2,910
	24-Feb-14	22.7	<1.66	903	3,080
	18-Nov-13	21.5	2.10	911	3,060
	13-Aug-13	30.3	2.80	1,010	3,540
	15-May-13	29.2	<1.66	1,000	3,420
	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	

**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)
Central Area					
Buena Vista Dairy II					
74-01	19-Nov-14	23.9	<1.8	891	2,930
	20-Aug-14	76.2	<1.8	866	3,480
	20-May-14	62.6	2.10	816	3,080
	3-Mar-14	57.2	2.10	855	3,200
	19-Nov-13	63.6	4.20	898	3,210
	21-Aug-13	63.9	2.80	829	3,180
	16-May-13	72.3	<1.66	816	3,090
	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	
74-02	19-Nov-14	28.6	<1.80	572	2,230
	20-Aug-14	29.8	<1.80	567	2,360
	20-May-14	25.7	2.10	579	2,230
	3-Mar-14	24.7	<1.66	588	2,260
	20-Nov-13	28.8	2.10	625	2,340
	21-Aug-13	20.0	2.80	564	2,220
	16-May-13	15.5	<1.66	549	2,120
	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	

**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)
74-03	19-Nov-14	2.06	<1.80	1,380	4,390
	20-Aug-14	2.77	<1.80	1,240	4,380
	20-May-14	3.51	2.10	1,230	4,000
	3-Mar-14	5.75	<1.66	1,220	4,140
	20-Nov-13	10.7	2.80	1,200	4,070
	21-Aug-13	5.62	3.50	1,230	4,100
	16-May-13	7.88	<1.66	1,160	3,920
	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-Nov-14	14.7	<1.80	538	2,140
	21-Aug-14	16.3	<1.80	556	2,060
	21-May-14	20.1	<1.80	537	1,880
	3-Mar-14	18.1	<1.66	565	2,080
	19-Nov-13	17.3	2.10	570	1,910
	22-Aug-13	16.4	3.50	560	2,160
	16-May-13	17.6	<1.66	502	1,890
	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-Nov-14	17.3	<1.80	493	1,890
	21-Aug-14	18.8	<1.8	464	1,880
	21-May-14	19.8	<1.80	452	1,860
	25-Feb-14	18.3	<1.66	506	1,960
	19-Nov-13	18.4	<1.66	493	1,840
	22-Aug-13	18.8	4.2	497	1,980
	16-May-13	17.5	<1.66	469	1,860
	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	13-Aug-14	Not Sampled			
	23-May-14	Not Sampled			
	28-Feb-14	Not Sampled			
	10-Dec-13	Not Sampled			
	27-Aug-13	<0.164	10.5	290	1,260
	17-May-13	Not Sampled			
	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				

**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)
167-01A	20-Nov-14	1.65	19.6	539	3,260
	4-Sep-14	2.52	<1.80	652	3,070
	23-May-14	1.59	2.80	666	2,860
	28-Feb-14	2.03	<1.66	656	2,820
	10-Dec-13	2.35	2.80	643	2,720
	26-Aug-13	4.84	10.5	907	3,610
	17-May-13	4.83	<1.66	794	3,420
	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	
167-02	20-Nov-14	Dry			
	4-Sep-14	0.928	<1.80	455	1,580
	18-Jun-14	Dry			
	28-Feb-14	Dry			
	10-Dec-13	Dry			
	23-Aug-13	Dry			
	17-May-13	Not Sampled			
	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	

**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)	
167-03	24-Nov-14	16.2	<1.80	529	2,080	
	4-Sep-14	17.1	<1.80	534	2,220	
	23-May-14	16.6	2.80	440	2,200	
	28-Feb-14	15.4	<1.66	516	2,140	
	10-Dec-13	17.6	<1.66	578	2,310	
	26-Aug-13	19.0	2.80	587	2,440	
	20-May-13	16.7	<1.66	543	2,140	
	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	24-Nov-14	29.0	<1.80	908	3,520	
	4-Sep-14	25.1	<1.80	1,040	4,210	
	22-May-14	26.5	18.2	1,010	3,600	
	3-Mar-14	25.1	2.10	1,180	4,080	
	10-Dec-13	23.8	2.10	1,190	4,070	
	26-Aug-13	25.5	6.30	1,090	3,900	
	17-May-13	4.40	<1.66	796	4,170	
	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	20-Nov-14	2.62	<1.80	747	3,360
	3-Sep-14	4.16	<1.80	709	3,240
	23-May-14	3.62	3.50	764	3,010
	3-Mar-14	2.25	<1.66	818	3,180
	10-Dec-13	1.58	3.50	886	3,290
	26-Aug-13	4.54	3.50	767	3,400
	17-May-13	23.3	<1.66	1,120	3,140
	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-Nov-14	21.1	<1.80	702	2,900
	4-Sep-14	22.8	4.20	689	2,820
	22-May-14	22.8	4.20	726	2,660
	28-Feb-14	22.1	<1.66	707	2,620
	10-Dec-13	20.8	6.30	744	2,740
	26-Aug-13	29.0	2.10	757	2,740
	20-May-13	23.9	<1.66	704	2,620
	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	

**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)
167-07	20-Nov-14	<0.126	<1.80	258	2,300
	4-Sep-14	<0.126	<1.80	609	5,680
	23-May-14	<0.187	<1.80	209	1,490
	28-Feb-14	<0.213	2.10	229	1,540
	10-Dec-13	0.960	6.30	233	1,770
	26-Aug-13	2.00	4.20	681	4,770
	17-May-13	<0.0420	<1.66	319	1,840
	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	
167-08	24-Nov-14	<0.126	<1.80	944	3,020
	4-Sep-14	<0.126	<1.80	726	2,840
	27-May-14	<0.187	2.10	777	2,920
	4-Mar-14	1.02	<1.66	884	3,090
	10-Dec-13	Not Sampled			
	27-Aug-13	Not Sampled			
	21-May-13	1.13	<1.66	723	2,820
	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	

**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)
167-09	20-Nov-14	6.31	2.80	683	2,830
	3-Sep-14	10.5	<1.80	680	2,980
	23-May-14	10.1	3.50	721	2,800
	3-Mar-14	6.49	<1.66	756	2,840
	10-Dec-13	3.82	4.90	777	2,980
	27-Aug-13	6.24	5.60	772	3,320
	17-May-13	10.7	<1.66	726	3,050
	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	25-Nov-14				Dry
	25-Aug-14				Dry
	27-May-14				Dry
	4-Mar-14				Dry
	6-Nov-13				Dry
	29-Aug-13				Dry
	21-May-13				Dry
	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-Nov-14	60.4	<1.80	1,010	3,480
	25-Aug-14	24.8	<1.80	528	2,090
	27-May-14	27.0	2.10	563	2,140
	5-Mar-14	79.8	<1.66	1,120	3,920
	20-Nov-13	65.4	2.10	884	3,060
	5-Sep-13	85.8	69.3	1,080	4,270
	21-May-13	69.2	<1.66	858	3,140
	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	24-Nov-14	Dry			
	25-Aug-14	Dry			
	27-May-14	Dry			
	3-Mar-14	Dry			
	6-Nov-13	Dry			
	29-Aug-13	Dry			
	21-May-13	Dry			
	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	

**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)
833-04	25-Nov-14	46.6	<1.80	914	3,280
	22-Aug-14	10.4	<1.80	677	2,230
	29-May-14	23.5	5.60	780	2,670
	4-Mar-14	50.0	<1.66	1,010	3,530
	20-Nov-13	12.8	2.10	711	2,280
	30-Aug-13	37.9	2.80	868	3,260
	21-May-13	41.9	<1.66	875	3,180
	25-Feb-13	2.45	<1.72	1,050	3,600
	19-Nov-12	50.0	<1.72	1,010	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
	833-05	14-Dec-09	11.2	0.42	570
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
24-Nov-14		19.8	<1.80	992	2,680
21-Aug-14		21.0	<1.80	752	2,320
29-May-14		15.6	4.20	1,070	3,130
4-Mar-14		18.5	<1.66	1,170	3,170
25-Nov-13		17.8	2.80	1,060	2,900
29-Aug-13		20.9	20.3	911	2,660
21-May-13		14.7	<1.66	1,070	2,920
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	

**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)
833-06	25-Nov-14	46.5	<1.80	836	2,710
	21-Aug-14	17.4	<1.80	663	2,300
	29-May-14	26.5	3.50	760	2,460
	4-Mar-14	41.9	<1.66	847	2,800
	21-Nov-13	27.4	3.50	771	2,490
	30-Aug-13	25.3	2.80	656	2,310
	20-May-13	25.9	<1.66	816	2,640
	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	24-Nov-14	92.5	<1.80	1,190	4,300
	21-Aug-14	83.6	5.60	1,360	4,920
	29-May-14	87.0	4.90	1,380	4,760
	4-Mar-14	73.0	<1.66	1,390	4,420
	21-Nov-13	78.3	2.80	1,330	4,380
	29-Aug-13	78.4	4.90	1,330	4,420
	21-May-13	88.7	<1.66	1,400	4,730
	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	24-Nov-14	63.7	<1.80	1,130	3,320
	22-Aug-14	90.2	<1.80	672	2,900
	27-May-14	91.5	2.10	772	3,030
	4-Mar-14	100	<1.66	807	3,220
	21-Nov-13	86.3	<1.66	827	3,000
	29-Aug-13	79.6	4.90	971	3,300
	21-May-13	80.2	<1.66	953	3,320
	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	25-Nov-14	137	<1.80	965	4,260
	22-Aug-14	64.9	<1.80	759	3,240
	27-May-14	85.0	6.30	868	3,790
	5-Mar-14	125	<1.66	998	4,430
	20-Nov-13	137	<1.66	1,060	4,640
	29-Aug-13	82.2	3.50	786	3,860
	22-May-13	78.1	<1.66	786	3,630
	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	

**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)
833-10	25-Nov-14	4.96	<1.80	690	2,760
	21-Aug-14	5.66	<1.80	671	2,780
	29-May-14	3.20	2.10	667	2,670
	5-Mar-14	2.47	<1.66	679	2,660
	20-Nov-13	2.93	<1.66	695	2,620
	29-Aug-13	3.77	4.20	642	2,800
	22-May-13	3.96	<1.66	648	2,580
	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	
Sunset/Desert Land Dairy					
257-01	1-Dec-14	47.9	<1.80	750	3,370
	25-Aug-14	49.4	<1.80	694	3,570
	30-May-14	47.9	3.50	739	3,320
	6-Mar-14	44.3	<1.66	707	3,130
	25-Nov-13	42.4	2.80	726	3,090
	28-Aug-13	44.4	5.60	719	3,160
	22-May-13	33.6	<1.66	660	3,100
	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	

**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)
257-02	1-Dec-14	6.39	<1.80	669	2,760
	25-Aug-14	6.53	<1.80	585	2,550
	30-May-14	11.5	2.10	531	2,100
	6-Mar-14	10.4	<1.66	530	2,120
	25-Nov-13	11.1	2.80	529	2,070
	28-Aug-13	7.59	8.40	511	2,200
	22-May-13	3.39	<1.66	469	1,880
	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	1-Dec-14	Dry			
	25-Aug-14	7.64	<1.80	413	1,840
	30-May-14	Dry			
	6-Mar-14	6.06	<1.66	546	2,380
	25-Nov-13	2.03	4.90	494	1,900
	28-Aug-13	4.55	4.90	569	2,360
	22-May-13	7.23	<1.66	658	2,640
	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	1-Dec-14	4.92	2.80	375	1,520
	25-Aug-14	3.74	6.30	562	2,440
	30-May-14	4.82	2.10	658	2,640
	6-Mar-14	4.22	<1.66	644	2,780
	25-Nov-13	3.30	6.30	580	2,220
	28-Aug-13	2.81	7.70	624	2,460
	22-May-13	2.39	<1.66	673	2,820
	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	2-Dec-14	99.4	4.90	678	2,830
	27-Aug-14	95.6	9.10	643	2,910
	2-Jun-14	98.2	4.20	612	2,660
	13-Mar-14	97.8	<1.66	647	2,820
	4-Dec-13	2.57	7.00	706	2,840
	4-Sep-13	Not Sampled			
	28-May-13	82.4	<1.66	612	2,660
	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		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	

**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)
692-02	2-Dec-14	147	<1.80	974	3,430
	27-Aug-14	132	2.80	909	3,510
	30-May-14	128	4.20	906	3,370
	7-Mar-14	129	<1.66	912	3,420
	3-Dec-13	108	2.80	906	3,520
	4-Sep-13	120	2.80	925	3,600
	23-May-13	47.8	<1.66	742	2,720
	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	
692-03	30-Mar-10	Plugged and Abandoned			
	4-May-09				
692-04	2-Dec-14	27.1	<1.80	582	2,000
	28-Aug-14	32.5	<1.80	508	2,060
	30-May-14	38.7	4.20	481	2,010
	7-Mar-14	44.4	<1.66	581	2,290
	3-Dec-13	43.5	2.80	646	2,490
	4-Sep-13	Not Enough Water to Sample			
	23-May-13	71.3	<1.66	676	2,740
	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	

**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)
692-05	2-Dec-14	4.80	<1.80	447	1,460
	27-Aug-14	5.78	<1.80	424	1,340
	2-Jun-14	6.50	3.50	427	1,460
	14-Mar-14	1.67	<1.66	452	1,440
	4-Dec-13	4.05	2.80	437	1,360
	4-Sep-13	2.12	4.20	446	1,480
	28-May-13	1.90	<1.66	417	1,280
	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	2-Dec-14	3.65	<1.80	461	1,440
	27-Aug-14	3.77	<1.80	434	1,420
	2-Jun-14	3.90	3.50	453	1,500
	7-Mar-14	3.03	<1.66	429	1,400
	3-Dec-13	3.70	2.10	470	1,470
	4-Sep-13	3.19	2.10	423	1,540
	23-May-13	2.71	<1.66	415	1,370
	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	

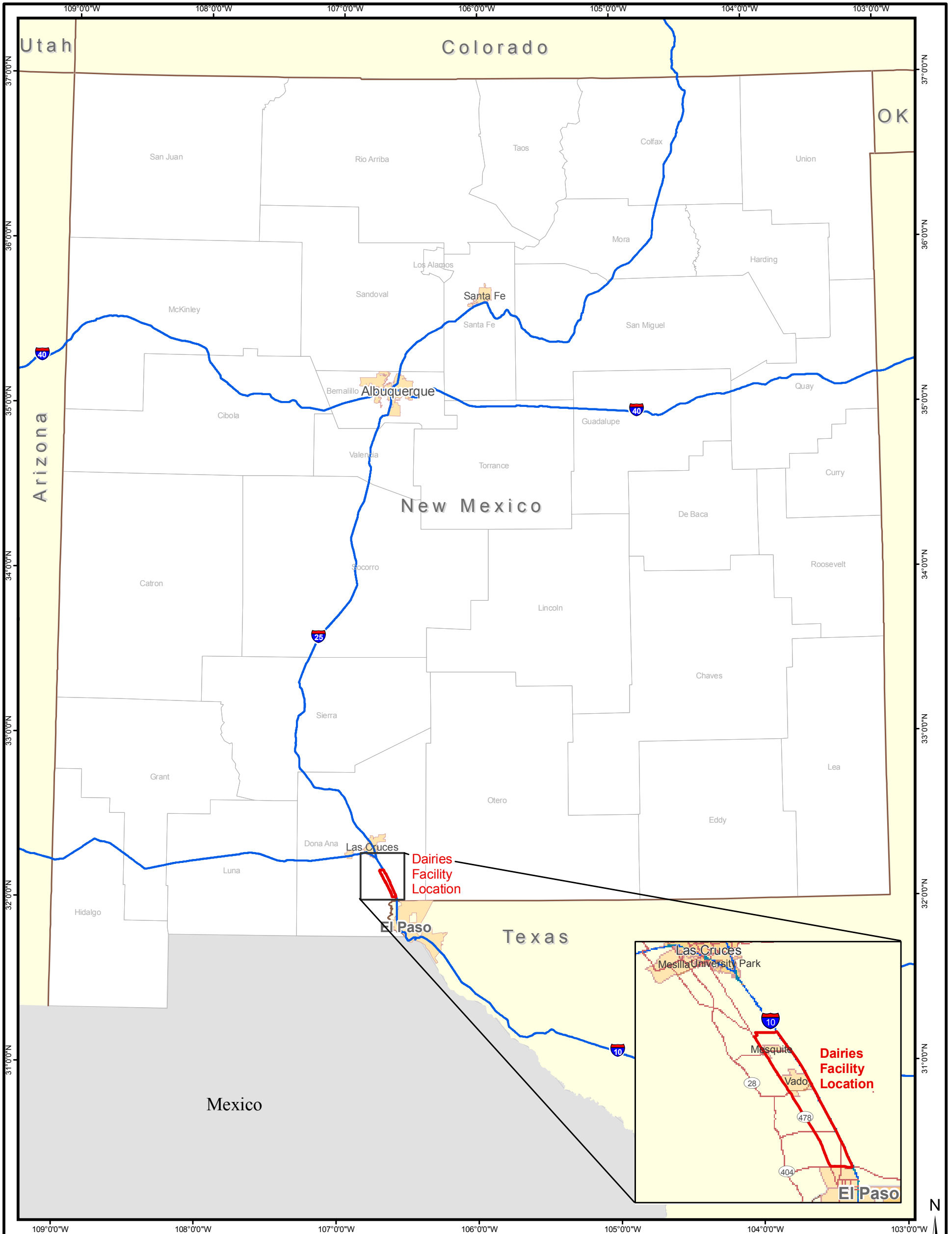
**TABLE 4. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
692-07	2-Dec-14	Pump was not operational			
	27-Aug-14	Not Sampled - insufficient water to sample			
	2-Jun-14	3.20	2.80	527	1,590
	14-Mar-14	3.26	<1.66	544	1,580
	4-Dec-13	4.26	2.10	581	1,600
	4-Sep-13	4.17	<1.66	550	1,840
	28-May-13	3.68	<1.66	524	1,530
	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	2-Dec-14	2.65	<1.80	437	1,370
	27-Aug-14	2.71	<1.80	418	1,300
	2-Jun-14	4.70	4.90	435	1,300
	14-Mar-14	4.27	<1.66	435	1,430
	4-Dec-13	3.22	<1.66	456	1,320
	4-Sep-13	3.58	2.10	430	1,360
	28-May-13	3.49	<1.66	434	2,760
	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	

**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)
692-09	2-Dec-14	1.94	<1.80	444	1,420
	28-Aug-14	4.36	<1.80	418	1,450
	2-Jun-14	6.81	<1.80	459	1,300
	14-Mar-14	6.08	<1.66	453	1,460
	4-Dec-13	3.43	2.10	465	1,440
	4-Sep-13	8.52	3.50	452	1,460
	28-May-13	8.92	<1.66	457	1,410
	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
<p>NOTES:</p> <p>Data suspect</p> <p>mg/l = milligrams per liter</p> <p>ND = Non-detect</p> <p>NMWQCC = New Mexico Water Quality Control Commission</p> <p>TDS = Total dissolved solids</p> <p>TKN = Total Kjeldahl nitrogen</p> <p>Highlight is at or above NMWQCC Standard</p>					

FIGURES

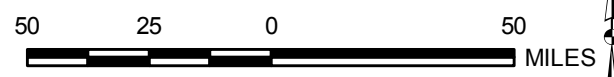


LEGEND:


 Facility Boundary

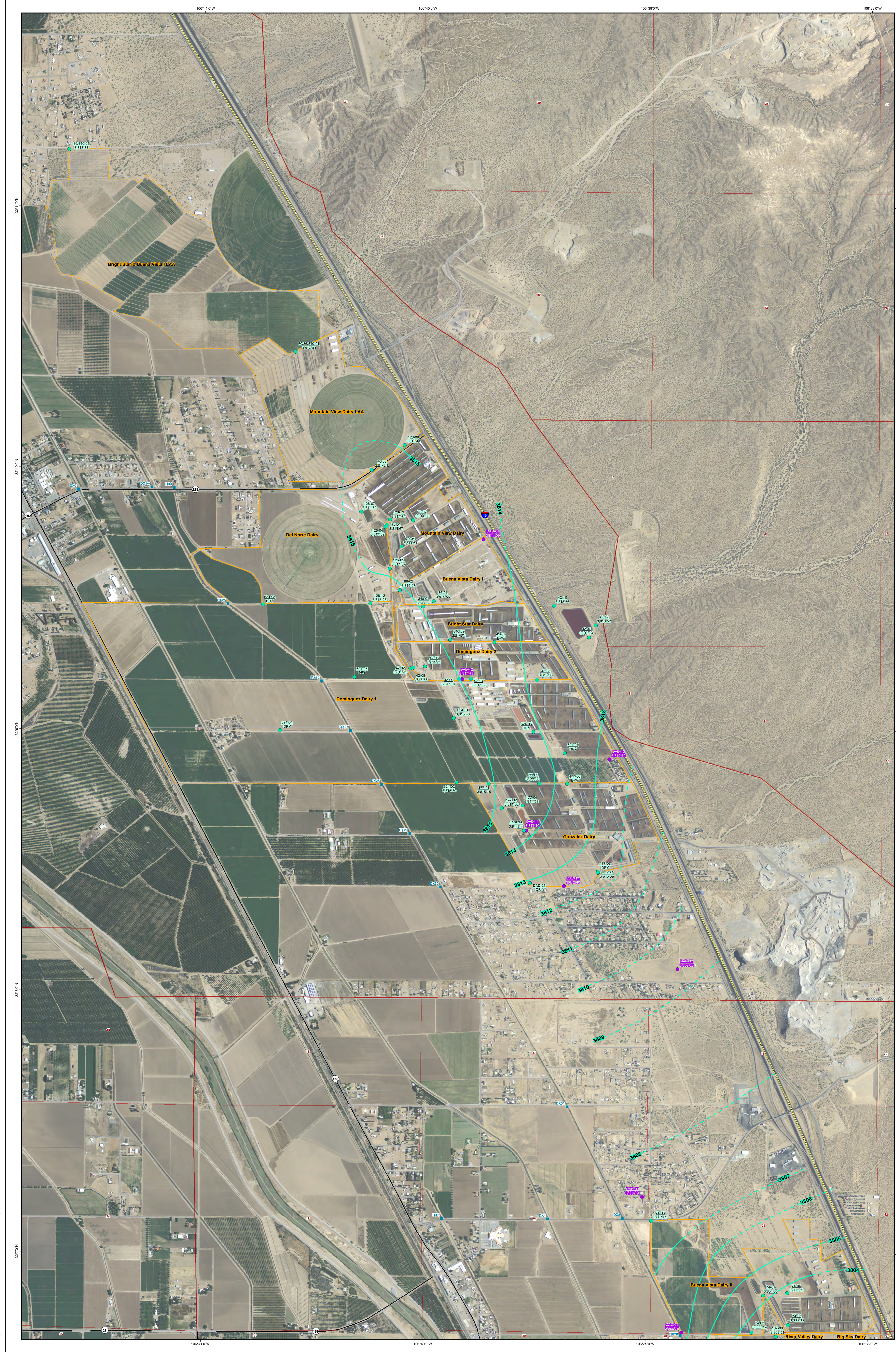
REFERENCES

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:
 * = Well not used in contouring

REFERENCES

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

500 250 0 250 500
 FEET
 SCALE: 1:9,000 1" = 750 FT
 WHEN PRODUCED AT 34x44IN

N

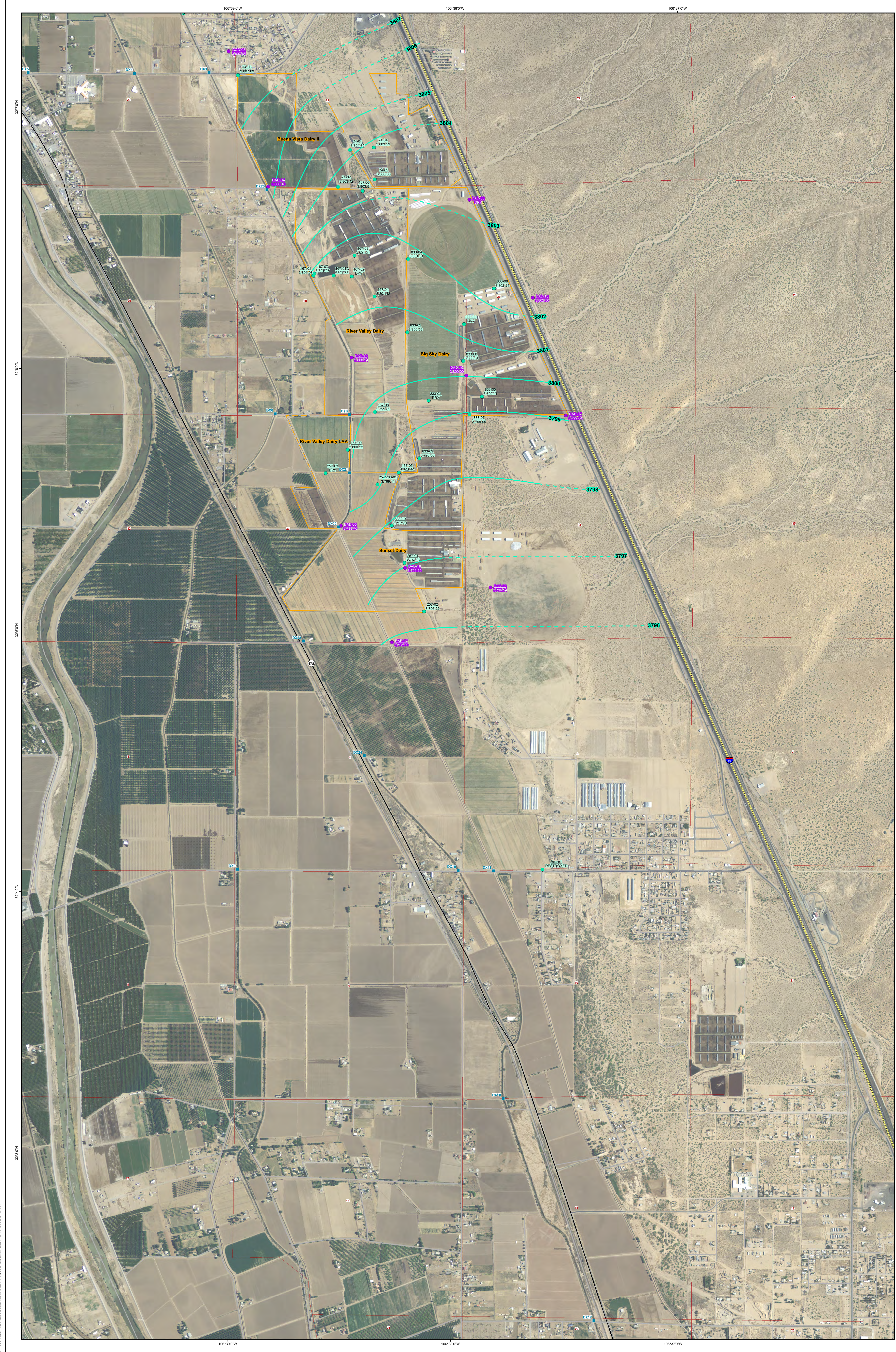
PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

MAP: POTENTIOMETRIC SURFACE MAP,
 NOVEMBER 2014, NORTHERN PORTION

PROJECT NO.	DATE	BY	CHECKED

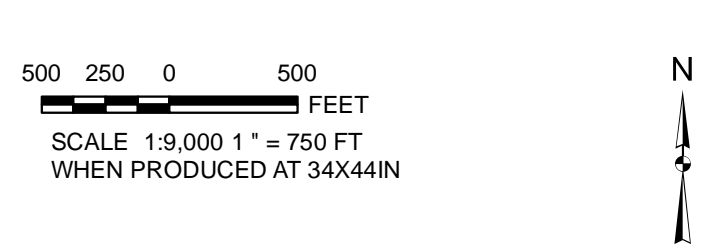
FIGURE 2

2014-08-04 10:45:00 AM C:\Users\jgarcia\Documents\2014-08-04_10:45:00 AM.dwg



- LEGEND**
- Drain Crossing Location
 - Discharge Plan Well With Water Elevations (Feet MSL)
 - Abatement Plan Well With Water Elevations (Feet MSL)
 - - - Potentiometric Contour - Assumed
 - ▭ Land Owned by Dairies
 - ▭ Land Application on Non-Dairy Property
 - ▭ Public Land Survey System

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



PROJECT
 DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

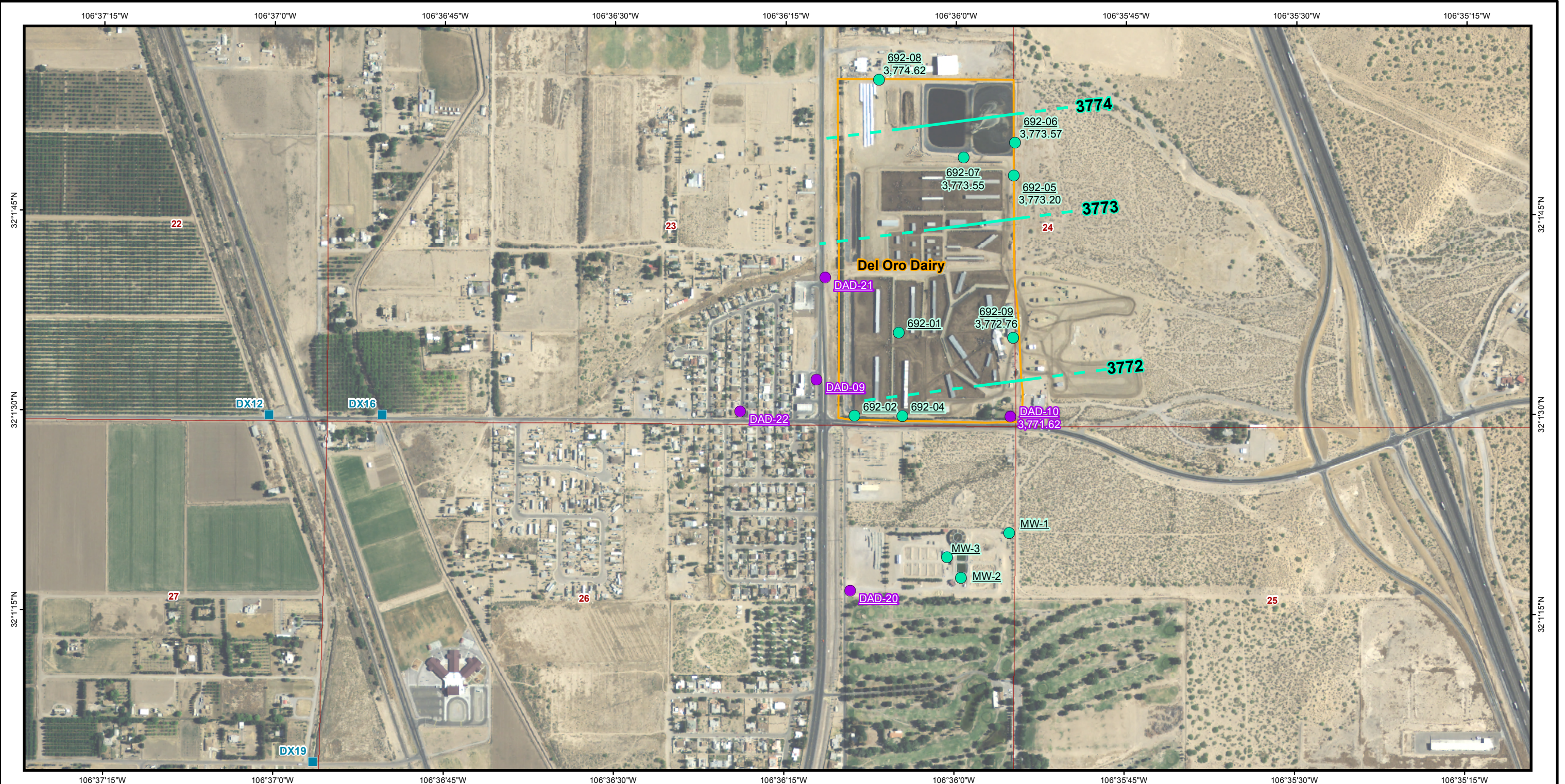
DATE
 NOVEMBER 2014, CENTRAL PORTION

PROJECT NO.	DATE	BY	APP'D.

EA **FIGURE 3**

2014-11-04 10:00 AM P:\Projects\14-0000\14-0000.dwg User: j... Plot Date: 11/04/14 10:00 AM

2014-12-30 P:\gis\Projects\donna ana\Dallas_GIS\MXDs\201411\Fig 4 SouthRegionAq_Pot_201411.mxd EA-Dallas mullen



- LEGEND:**
- Drain Crossing Location
 - Discharge Plan Well with Water Elevation (Feet Above Mean Sea Level)
 - Abatement Plan Well With Water Elevations (Feet Above Mean Sea Level)
 - Potentiometric Contour
 - - - Potentiometric Contour - Assumed
 - Land Owned by Dairies
 - Public Land Survey System

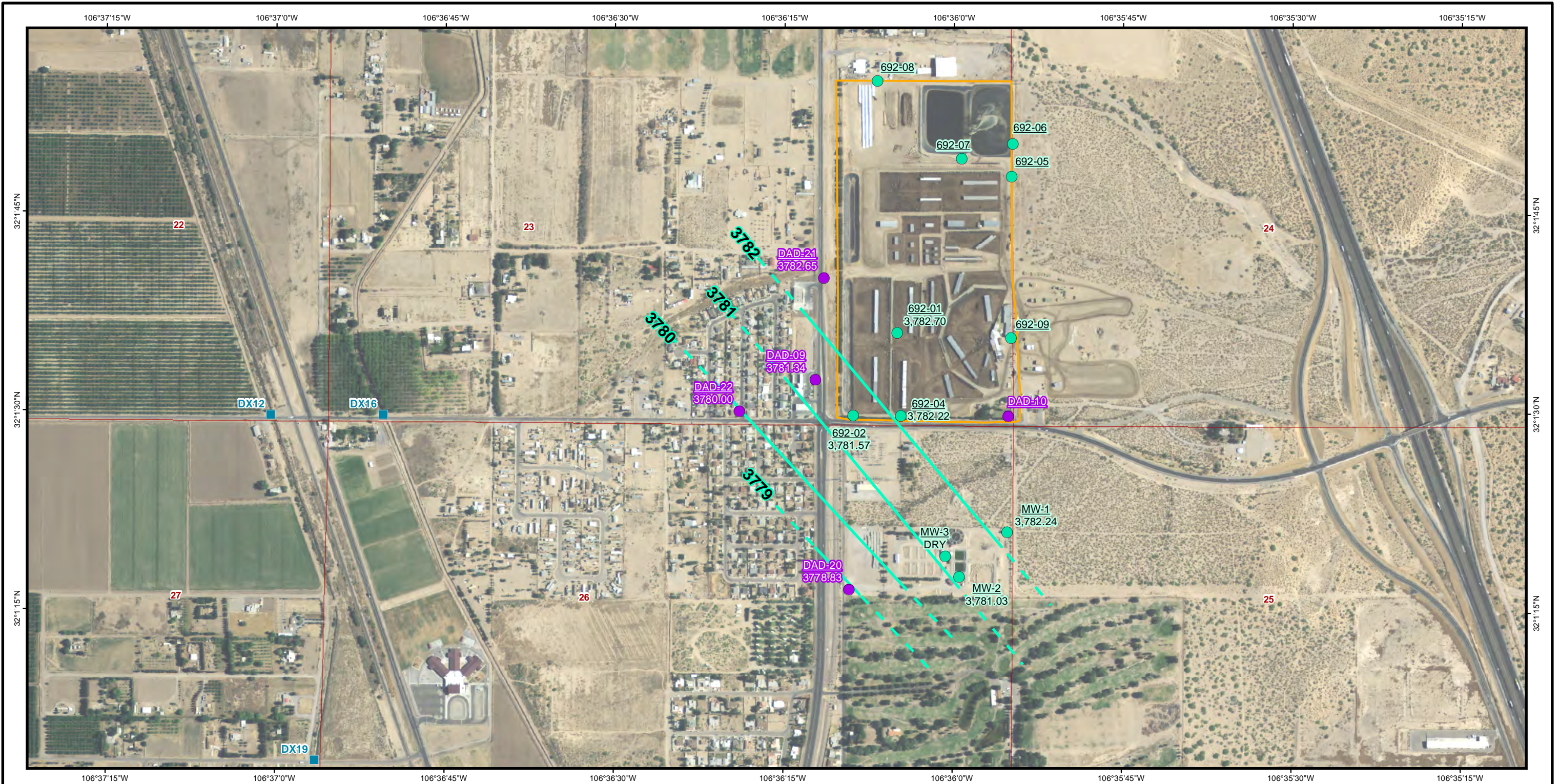
400 200 0 400
 FEET
 SCALE 1:9,000 1" = 750 FT
 WHEN PRODUCED AT 11X17IN



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

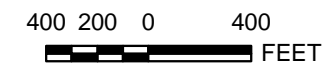
PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
POTENTIOMETRIC SURFACE MAP, NOVEMBER 2014, SOUTHERN PORTION REGIONAL AQUIFER			
	PROJECT No. 1464103		Fig 4 SouthRegionAq_Pot.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RMM	REV 0
	CHECK		
REVIEW			
			FIGURE 4

2015-03-06 P:\gis\Projects\doña ana\Dallas_GISMXDs\201411\Fig 5 SouthPerchAq_Pot_2014011.mxd EA-Dallas mullen



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



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)

DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
POTENTIOMETRIC SURFACE MAP, FEBRUARY 2015, SOUTHERN PORTION PERCHED AQUIFER			
	PROJECT No. 1464103		Fig 5 SouthPerchAq_Pot.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RMM	REV 0
	CHECK		
REVIEW			FIGURE 5

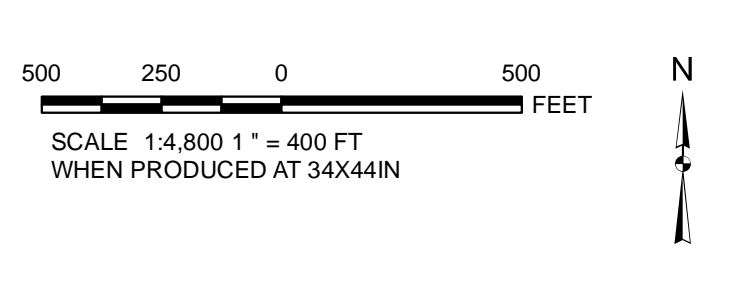


LEGEND:

- 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-N = Nitrate as N
 TDS = Total Dissolved Solids

REFERENCES
 Roads: Doña Ana County, 2011
 Aerial Photography: NARS, 2011
 PLSS: BLM, 2009
 Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

GROUND WATER ANALYTICAL RESULTS
 NOVEMBER - DECEMBER 2014,
 CENTRAL PORTION

PROJECT NO.	DATE	SCALE

EA **FIGURE 7**

2014-10-09 10:00 AM 10/9/2014 10:00 AM 10/9/2014 10:00 AM



LEGEND:

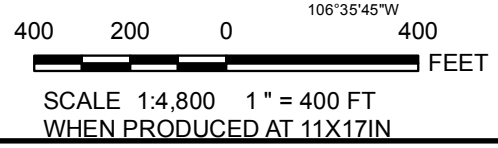
- Land Owned by Dairies
- Public Land Survey System

Notes:
Units are in milligrams per liter.

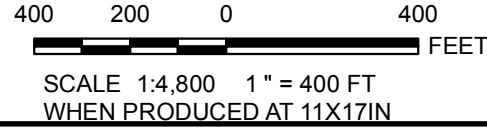
Cl = Chloride
NO₃ = Nitrate as N
TDS = Total Dissolved Solids

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 NOVEMBER - DECEMBER 2014, SOUTHERN PORTION, REGIONAL AQUIFER			
	PROJECT No. 1464103.0006		Fig8SouthRegionAq_Analytical.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RM	REV 0
	CHECK		
REVIEW			
			FIGURE 8



PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
GROUNDWATER ANALYTICAL RESULTS NOVEMBER - DECEMBER 2014, SOUTHERN PORTION, PERCHED AQUIFER			
	PROJECT No. 1464103.0006	deloro_analytical_perched200908.mxd	
	DESIGN NA	SCALE AS SHOWN	REV 0
	GIS RM		
	CHECK		
REVIEW			FIGURE 9

LEGEND:

- 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)

**APPENDIX A
SAMPLING FIELD FORMS**

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-02 Date Gauged 11-25-14
 Site BIG SKY Time Gauged 13:07
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 35.51 feet Height of Fluid Column 22.19 feet
 Total Depth 57.70 feet Volume in Well 14.64 gallons
 (3 Well Volumes = 43 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:13 11-25-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
13:13	1	1	19.1	3517	8.25	131	2686
13:33	1	31	19.1	3517	8.25	131	2686
13:35	1	36	19.0	3502	8.29	154	2675
13:37	1	39	18.8	3497	8.30	154	2674
13:39	1	40	18.7	3499	8.28	154	2673
13:40	1	41	18.6	3496	8.30	155	2673
13:41	1	42	18.6	3501	8.29	153	2676
13:43	1	43	18.6	3503	8.31	153	2677

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

Time/Date Sampled 13:43 11-25-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-03 Date Gauged 11-24-14
 Site Big Sky Time Gauged 10:35
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 62.74 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 ga/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-04 Date Gauged 11-25-14
 Site Big Sky Time Gauged 11:50
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 43.98 feet Height of Fluid Column 9.69 feet
 Total Depth 53.67 feet Volume in Well 6.3954 gallons
 (3 Well Volumes = 19. gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:57 11-25-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:04	12	12	19.5	5106	7.79	149	4054
12:06	1	13	20.0	5046	7.17	162	3994
12:07	1	14	20.5	5042	7.36	157	3993
12:08	1	15	20.6	5040	7.58	157	3991
12:09	1	16	20.5	5039	7.56	148	3997
12:10	1	17	20.4	5037	7.55	155	3995
12:12	1	18	20.4	5036	7.53	156	3992
12:14	1	19	20.3	5034	7.52	158	3991

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

Time/Date Sampled 12:14 11-25-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-05 Date Gauged 11-24-14
 Site Big Sky Time Gauged 12:54
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 66.12 feet Height of Fluid Column 7.61 feet
 Total Depth 73.73 feet Volume in Well 5.0226 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:02 11-24-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
13:09	8	8	21.8	4326	6.90	196	3359
13:11	1	9	22.6	4305	7.10	163	3360
13:13	1	10	22.8	4311	7.28	145	3359
13:15	1	11	22.3	4319	7.26	128	3362
13:17	1	12	22.1	4314	7.27	116	3361
13:19	1	13	22.5	4316	7.19	108	3365
13:21	1	14	21.7	4324	7.17	101	3399
13:22	1	15	22.3	4331	7.16	96	3371

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 13:22 11-24-14 Purged/Sampled By JV
 Sample Method Pump
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-06 Date Gauged 11-25-14
 Site Big Sky Time Gauged 12:26
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 66.16 feet Height of Fluid Column 7.63 feet
 Total Depth 73.73 feet Volume in Well 5.0358 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:33 11-25-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:41	8	8	19.0	3990	7.65	165	3129
12:43	1	9	20.7	4023	7.54	167	3117
12:44	1	10	20.7	4060	7.50	161	3147
12:45	1	11	20.9	4077	7.45	158	3161
12:47	1	12	21.1	4103	7.42	155	3184
12:48	1	13	20.7	4145	7.41	151	3222
12:49	1	14	20.8	4154	7.38	148	3231
12:50	1	15	20.8	4163	7.35	146	3240

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

Time/Date Sampled 12:50 11-24-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-07 Date Gauged 11-24-14
 Site Big Sky Time Gauged 11:35
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 61.77 feet Height of Fluid Column 11.66 feet
 Total Depth 73.42 feet Volume in Well 7.6956 gallons
 (3 Well Volumes = 23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:46 11-24-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:55	16	16	22.1	6475	7.47	178	5244
11:57	1	17	21.9	6483	7.43	178	5242
11:59	1	18	21.8	6460	7.39	176	5243
12:01	1	19	21.5	6473	7.37	173	5241
12:03	1	20	21.7	6463	7.32	174	5226
12:04	1	21	21.7	6459	7.31	173	5228
12:06	1	22	21.6	6426	7.28	168	5207
12:08	1	23	21.2	6432	7.27	164	5206

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

Time/Date Sampled 12:08 11-24-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-08 Date Gauged 11-24-14
 Site Big Sky Time Gauged 10:47
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 61.27 feet Height of Fluid Column 11.63 feet
 Total Depth 72.90 feet Volume in Well 7.6758 gallons
 (3 Well Volumes = 23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:00 11-24-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:13	1	16	21.7	5954	7.76	151	4359
11:14	1	17	21.8	5968	7.63	151	4381
11:16	1	18	21.7	5900	7.55	148	4356
11:18	1	19	22.3	5918	7.49	144	4366
11:20	1	20	20.9	5961	7.46	139	4333
11:22	1	21	21.6	5919	7.42	135	4323
11:24	1	22	21.2	5910	7.40	131	4361
11:26	1	23	20.9	5918	7.37	126	4319

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

Time/Date Sampled 11:26 11-24-14 Purged/Sampled By JV

Sample Method ~~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 833-09 Date Gauged 11-25-14
 Site Big Sky Time Gauged 11:17
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 27.77 feet Height of Fluid Column 11.63 feet
 Total Depth 39.4 feet Volume in Well 7.6758 gallons
 (3 Well Volumes = 23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:26 11-25-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:36	16	16	20.7	6535	7.64	174	5248
11:37	1	17	21.2	6565	7.57	176	5321
11:38	1	18	20.8	6580	7.53	177	5337
11:39	1	19	21.1	6588	7.47	178	5342
11:40	1	20	21.1	6590	7.46	178	5338
11:41	1	21	21.1	6569	7.45	177	5318
11:42	1	22	21.0	6542	7.42	177	5291 5338
11:43	1	23	20.9	6512	7.41	174	5291

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

Time/Date Sampled 11:43 11-25-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-10 Date Gauged 11-25-14
 Site BIG SKY Time Gauged 10:35
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 23.01 feet Height of Fluid Column 13.95 feet
 Total Depth 36.96 ~~23.01~~ feet Volume in Well 9.207 gallons
 (3 Well Volumes = 27 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:41 11-25-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:52	20	20	18.7	4186	7.42	86	3250
10:53	1	21	18.6	4195	7.35	103	3257
10:55	1	22	18.5	4194	7.25	184	3259
10:57	1	23	18.5	4191	7.20	183	3257
10:59	1	24	18.5	4193	7.11	183	3256
11:01	1	25	18.4	4192	6.94	189	3258
11:03	1	26	18.4	4193	7.13	177	3259
11:04	1	27	18.4	4193	7.16	176	3259

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

Time/Date Sampled 11:04 11-25-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

8701 Aberdeen, Ste. 9
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

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

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
 Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048
 Project #: 455538

Phone #: 915-859-8150
 Cell #: _____
 Fax #: _____
 E-mail: vayala@dhump.com

Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM

Project Name: Big Sky Dairy
 Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE
	833-02	1	250	X						X			11-25-14	1343
	833-02	1		X						X				1343
	833-04	1		X						X				1214
	833-04	1		X						X				1214
	833-06	1		X						X				12:50
	833-06	1		X						X				12:50
	833-09	1		X						X				1143
	833-10	1		X						X				1104
	833-10	1		X						X				1104

LAB USE ONLY	REMARKS
Intake <input checked="" type="checkbox"/> / N	
Headspace <input checked="" type="checkbox"/> / N	
Temp <input checked="" type="checkbox"/> / N	
Log-in Review <input checked="" type="checkbox"/>	
	Dry Weight Basis Required
	TRRP Report Required

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	
LAB Order ID #	
ANALYSIS REQUEST	
MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	
Nitrates EPA 300	
Total Kjeldhal Nitrogen SM 4500 NORG C	
Chloride EPA 300.0	
Total Dissolved Solids SM 2540 C MOD	
Turn Around Time	
Hold	

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 340-01 Date Gauged 11-12-14
 Site BRIGHT STAR Time Gauged 9:31
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 43.61 feet Height of Fluid Column 4.39 feet
 Total Depth 48.0 feet Volume in Well 2.8974 gallons
 (3 Well Volumes = 8.69 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:36 11-12-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:41	2	2	20.2	4286	7.29	164	3350
9:44	1	3	20.2	4220	7.23	166	3284
9:47	1	4	20.1	4204	7.41	167	3271
9:49	1	5	19.8	4183	7.18	168	3250
9:51	1	6	19.6	4169	7.17	168	3241
9:54	1	7	19.1	4159	7.15	169	3233
9:56	1	8	19.0	4155	7.13	169	3227
9:58	0.75	8.75	18.9	4148	7.11	168	3222

Actual Purge Volume 8.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:58 11-12-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID ~~1022A~~ 340-02 Date Gauged 11-12-14

Site BRIGHT STAR Time Gauged 10:05

Depth to PSH _____ feet Well Diameter 4 inches

Depth to Water 55.02 feet Height of Fluid Column 1.78 feet

Total Depth 56.8 feet Volume in Well 1.1748 gallons

(3 Well Volumes = 3.5244 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:09 11-12-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:12	1	1	19.7	5003	7.20	164	3952
10:15	1	2	20.8	4996	7.21	166	3961
10:18	1	3	20.9	5005	7.16	168	3969
10:20	.5	3.5	20.6	5003	7.13	169	3958

Actual Purge Volume 3.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:20 11-12-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 86/340-01 Date Gauged 11-11-14
 Site ~~XXXXXX~~ BRIGHT STAR Time Gauged 8:44
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 57.15 feet Height of Fluid Column 13.85 feet
 Total Depth 71.0 feet Volume in Well 9.141 gallons
 (3 Well Volumes = 27.423 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:50 11-11-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:40	21	21	20.7	3011	8.48	177	2353
9:42	1	22	20.3	2996	8.20	176	2343
9:44	1	23	20.0	2998	8.05	173	2344
9:47	1	24	19.8	2992	7.93	172	2341
9:49	1	25	19.7	2990	7.83	170	2339
9:52	1	26	19.6	2988	7.75	169	2338
9:54	1	27	19.4	2991	7.68	168	2341
9:55	5	27.5	19.3	2992	7.45	168	2342

Actual Purge Volume 27.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:55 11-11-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70/86/340-01 Date Gauged 11-12-14
 Site BRIGHT STAR Time Gauged 8:08
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 50.45 feet Height of Fluid Column 17.25 feet
 Total Depth 67.7 feet Volume in Well 11.385 gallons
 (3 Well Volumes = 34.15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:14 11-12-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:07	28	28	19.3	8966	7.03	235	7512
9:10	1	29	18.9	9294	6.78	238	7831
9:13	1	30	18.6	9529	6.73	238	8041
9:15	1	31	18.3	9557	6.65	238	8066
9:18	1	32	18.0	9538	6.61	236	8064
9:21	1	33	17.8	9541	6.59	235	8072
9:23	1	34	17.3	9555	6.57	233	8079
9:24	.25	34.25	17.1	9557	6.55	231	8083

Actual Purge Volume 34.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:24 11-12-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-01 Date Gauged 11-19-14
 Site BUENA VISTA II Time Gauged 12:23

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 36.68 feet Height of Fluid Column 8.45 feet
 Total Depth 45.13 feet Volume in Well 5.577 gallons
 (3 Well Volumes = 16.75 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:30 11-19-14 Purged Method Small Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:37 12:35	10	10	20.9	4741	7.48	219	3740
12:37	1	11	21.1	4717	7.43	220	3708
12:39	1	12	21.4	4722	7.38	220	3716
12:40	1	13	21.6	4761	7.35	218	3747
12:41	1	14	21.6	4765	7.32	211	3751
12:42	1	15	21.9	4761	7.29	197	3746
12:44	1	16 16	21.7	4763	7.30	200	3750
12:46	.75	16.75		4753	7.27	195	3740

Actual Purge Volume 16.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:46 11-19-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-02 Date Gauged 11-19-14
 Site BUENA VISTA II Time Gauged 11:06
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 17.18 feet Height of Fluid Column 2.97 feet
 Total Depth 20.15 feet Volume in Well 1.96 gallons
 (3 Well Volumes = 5.88 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:11 11-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:15	1	1	21.4	3724	7.22	221	2860
11:17	1	2	21.2	3676	7.20	221	2828
11:19	1	3	21.0	3655	7.16	219	2804
11:16	1	4	21.3	3645	7.14	217	2795
11:18	1	5	22.1	3649	7.12	216	2798
11:20	1	6	22.2	3642	7.12	215	2793

Actual Purge Volume 6 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:20 11-19-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 72-03 Date Gauged 11-19-19
 Site BUENA VISTA II Time Gauged 11:35
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 15.68 feet Height of Fluid Column 4.42 feet
 Total Depth 20.1 feet Volume in Well 2.9172 gallons
 (3 Well Volumes = 8.75 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:41 11-19-19 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:44	2	2	21.8	6551	7.20	223	5242
11:46	1	3	21.6	6505	7.22	220	5264
11:48	1	4	21.5	6472	7.20	219	5236
11:49	1	5	21.4	6461	7.17	220	5224
11:50	1	6	21.3	6444	7.15	219	5209
11:52	1	7	21.3	6441	7.12	219	5208
11:54	1	8	21.2	6436	7.05	225	5205
11:55	.75	8.75	21.4	6446	7.09	217	5214

Actual Purge Volume 8.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:55 11-19-19 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-04 Date Gauged 11-20-14
 Site BUENA VISTA II Time Gauged 8:45
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 49.62 feet Height of Fluid Column 8.22 feet
 Total Depth 57.84 feet Volume in Well 5.4252 gallons
 (3 Well Volumes = 16.27 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:00 11-20-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:08	10	10	21.0	3245	7.77	214	2470
9:10	1	11	20.9	3240	7.60	217	2463
9:12	1	12	20.8	3233	7.54	216	2459
9:14	1	13	21.1	3230	7.49	216	2453
9:15	1	14	21.0	3223	7.45	215	2447
9:17	1	15	20.9	3219	7.41	214	2440
9:19	1	16	20.8	3214	7.37	212	2437
9:21	1.25	16.25	20.7	3211	7.37	211	2433

Actual Purge Volume ~~9.22~~ 16.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:21 11-20-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-05 Date Gauged 11-20-14
 Site BUENA VISTA II Time Gauged 9:36
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 42.01 feet Height of Fluid Column 14.95 feet
 Total Depth 56.96 feet Volume in Well 9.867 gallons
 (3 Well Volumes = 29.6 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:44 11-20-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
10:01	23	23	19.7	3074	7.71	187	2336
10:03	1	24	20.0	3057	7.61	192	2313
10:04	1	25	19.9	3059	7.55	194	2315
10:05	1	26	20.1	3056	7.47	197	2311
10:06	1	27	20.3	3053	7.45	198	2309
10:08	1	28	20.1	3049	7.42	198	2306
10:10	1	29	20.2	3054	7.40	199	2311
10:11	0.75	29.75	20.2	3056	7.37	199	2309

Actual Purge Volume 29.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:11 11-20-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

TraceAnalysis, Inc.

Company Name: 155 McCutcheon, Ste. H El Paso, TX 79932
D&H Petroleum & Environmental Services
Address: (Street, City, Zip) Paso, TX 79932
1221 Tower Trail Ln., El Paso, Texas 79907
Contact Person: Victor Ayala
E-mail: vayala@dhpump.com

Phone #: 915-859-8150
Cell #: 915-585-3443
Fax #: 915-585-4944
Project Name: Buena Vista Dairy #2
Project #: 455543
Project Location (including state): Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048
Sampler Signature: *Jay*

Project Name: Buena Vista Dairy #2
Sampler Signature: *Jay*

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
74-1		1	2.50	X				X		X			11-19-14	12:46
74-1		1		X				X		X			12:46	
74-2		1		X				X		X			11:20	
74-2		1		X				X		X			11:20	
74-3		1		X				X		X			11:55	
74-3		1		X				X		X			11:55	
74-4		1		X				X		X				
74-4		1		X				X		X				
74-5		1		X				X		X				
74-5		1		X				X		X				
74 Lagoon		1		X				X		X			11-19-14	12:11
74 Lagoon		1		X				X		X			11-19-14	12:11

Relinquished By: *Jay* Date: 11-19-14 Time: 13:21
 Received By: *MPL* Date: 11-19-14 Time: 13:01
 Relinquished By: *MDC* Date: 11-19-14 Time: 16:30
 Received at Laboratory By: _____ Date: _____ Time: _____

Page _____ of _____
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # _____

ANALYSIS REQUEST	Hold
MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	
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

Remarks: *MPL*
 Lab Use Only
 Intact N
 Headspace Y/N
 Temp *20* *REL*
 Log-in Review _____
 Dry Weight Basis Required
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAB-01 Date Gauged 12-3-14
 Site _____ Time Gauged 8:36
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 72.11 feet Height of Fluid Column 4.05 feet
 Total Depth 76.16 feet Volume in Well 6.885 gallons
 (3 Well Volumes = 2 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:41 12-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:43	1	1	23.4	2899	7.74	154	2189
8:45	1	2	24.2	2762	7.54	158	2098

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 8:45 12-3-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAS-02 Date Gauged 12-3-14
 Site _____ Time Gauged 9:00
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 66.61 feet Height of Fluid Column 1.47 feet
 Total Depth 68.1 feet Volume in Well .2533 gallons
 (3 Well Volumes = .75 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:05 12-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>9:08</u>	<u>.75</u>	<u>.75</u>	<u>22.1</u>	<u>2808</u>	<u>7.86</u>	<u>150</u>	<u>2124</u>

Actual Purge Volume .75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:08 12-3-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAB-03 Date Gauged 12-3-14
 Site _____ Time Gauged ~~9:34~~ 9:39
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 12.48 feet Height of Fluid Column 2.08 feet
 Total Depth 15.06 feet Volume in Well .3536 gallons
 (3 Well Volumes = 1 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:39 12-3-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:39 9:42	1	1	21.1	3746	7.72	-11	2903

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 9:42 12-3-14 Purged/Sampled By JV
 Sample Method Bail
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-4 Date Gauged 12-3-14
 Site _____ Time Gauged 9:57
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 15:33 feet Height of Fluid Column 3.17 feet
 Total Depth 18.41 feet Volume in Well .5889 gallons
 (3 Well Volumes = 1.61 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:01 12-3-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:02	1	1	19.6	1802	8.20	76	11300
10:03	.5	1.5	20.2	1756	8.23	76	1264

Actual Purge Volume 1.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:03 12-3-14 Purged/Sampled By JV
 Sample Method Bail
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-05 Date Gauged 12-3-14
 Site _____ Time Gauged 10:19
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 17.19 feet Height of Fluid Column 6.06 feet
 Total Depth 23.25 feet Volume in Well 1.03 gallons
 (3 Well Volumes = 3. gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:26 12-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:28	1	1	19.7	1662	8.17	86	1191
10:30	1	2	19.9	2556	7.72	101	1927
10:32	1	3	19.9	2962	7.61	103	2234

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

Time/Date Sampled 10:32 12-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-06 Date Gauged 12-4-14

Site _____ Time Gauged 13:37

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 0 feet Height of Fluid Column _____ feet

Total Depth 83.47 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 -DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-07 Date Gauged 12-3-14
 Site _____ Time Gauged 11:35
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 92.38 feet Height of Fluid Column 8.32 feet
 Total Depth 100.7 feet Volume in Well 1.4144 gallons
 (3 Well Volumes = 4.24 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:42 12-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:46	1	1	23.1	3346	7.91	127	2561
11:50	1	2	23.1	3315	7.79	133	2529
11:53	1	3	23.0	3325	7.70	136	2535
11:56	1	4	23.1	3324	7.63	139	2534
11:57 11:57	.25	4.25	23.1 22.9	3328	7.57	140	2535

Actual Purge Volume 4.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:57 12-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-08 Date Gauged 12-3-14
 Site _____ Time Gauged 12:12
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 52.61 feet Height of Fluid Column 3.04 feet
 Total Depth 55.65 feet Volume in Well .5168 gallons

(3 Well Volumes = 1.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:17 12-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:19	1	1	20.4	7836	7.72	152	6473
12:21	.5	1.5	20.5	7	7.64	155	6452

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

Time/Date Sampled 12:21 12-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-09 Date Gauged 12-5-14
 Site _____ Time Gauged 11:24
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 56.66 feet Height of Fluid Column 4.79 feet
 Total Depth 61.45 feet Volume in Well .8143 gallons
 (3 Well Volumes = 2.45 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:30 12-5-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:32	1	1	21.8	2793	7.45	178	2132
11:34	1	2	22.0	2780	7.43	181	2110
11:35	.5	2.5	21.0	2786	7.24	185	2112

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:35 12-5-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analysis _____

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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-10 Date Gauged 12-5-14
 Site _____ Time Gauged 10:45
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 83.29 feet Height of Fluid Column 11.63 feet
 Total Depth 94.92 feet Volume in Well 1.9771 gallons
 (3 Well Volumes = 5.93 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:52 12-5-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:56	1	1	21.0	2509	7.68	168	1887
10:59	1	2	21.4	2498	7.59	171	1876
11:03	1	3	21.6	2488	7.53	173	1866
11:08	1	4	21.6	2483	7.50	176	1864
11:12	1	5	21.5	2481	7.47	177	1861
11:15	1	6	21.4	2483	7.45	178	1860
1							

Actual Purge Volume 6 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:15 12-5-14 Purged/Sampled By SV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-11 Date Gauged ~~12-5-14~~ 12-5-14
 Site _____ Time Gauged 8:07
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 21.77 feet Height of Fluid Column 25.6 feet
 Total Depth 47.37 feet Volume in Well 16.896 gallons
 (3 Well Volumes = 50.68 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:15 12-5-14 Purged Method ~~Atom~~ Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:36	43	43	21.9	6186	7.64	205	5002
8:38	1	44	22.6	6157	7.54	207	4967
8:39	1	45	23.0	6153	7.48	207	4959
8:40	1	46	22.8	6145	7.44	206	4956
8:41	1	47	22.9	6149	7.39	206	4957
8:42	1	48	22.8	6146	7.36	206	4953
8:43	1	49	22.6	6147	7.34	204	4954
8:44	1	50	22.7	6148	7.31	204	4956

Actual Purge Volume 50 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 8:44 12-5-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

. 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-12 Date Gauged 12-4-14
 Site _____ Time Gauged 10:39
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 51.87 feet Height of Fluid Column 30.43 feet
 Total Depth 82.3 feet Volume in Well 5.1731 gallons
 (3 Well Volumes = 15.5193 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:44 12-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS ± DO (mg/L)
11:07	9	9	21.6	4177	7.48	129	3255
11:10	1	10	21.9	4179	7.59	161	3253
11:14	1	11	21.8	4178	7.49	141	3247
11:17	1	12	21.6	4179	7.44	142	3247
11:19	1	13	21.5	4179	7.40	143	3244
11:21	1	14	21.4	4182	7.36	144	3248
11:23	1	15	21.3	4176	7.32	145	3244
11:24	.5	15.5	21.4	4176	7.29	145	3247

Actual Purge Volume 15.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:24 12-4-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-13 Date Gauged 12-4-14
 Site _____ Time Gauged 10:15
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 85.35 feet Height of Fluid Column 6.7 feet
 Total Depth 92.05 feet Volume in Well 1.139 gallons
 (3 Well Volumes = 3.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:20 12-4-14 Purged Method ~~WATER~~ BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:24	1	1	22.4	3302	7.67	133	2522
10:27	1	2	22.7	3289	7.54	139	2504
10:30	1	3	22.6	3290	7.45	141	2503
10:31	.5	3.5	22.4	3291	7.39	143	2504

Actual Purge Volume 3.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:31 12-4-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-14 Date Gauged 12-4-14
 Site _____ Time Gauged 8:25
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 29.46 feet Height of Fluid Column 13 feet
 Total Depth 42.46 feet Volume in Well 2.21 gallons
 (3 Well Volumes = 6.63 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:31 12-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:34	1	1	20.4	5054	7.93	132	4009
8:38	1	2	20.6	5065	7.88	135	4014
8:41	1	3	20.5	5063	7.82	137	4011 4001
8:44	1	4	20.5	5062	7.75	139	4008
8:48	1	5	20.4	5060	7.74	140	4008
8:51	1	6	20.4	5061	7.72	141	4009
8:53	.75	6.75	20.4	5068	7.71	141	4012

Actual Purge Volume 6.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 8:53 12-4-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-15 Date Gauged 12-4-14
 Site _____ Time Gauged ~~9:30~~ 9:36
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 95.14 feet Height of Fluid Column 14.34 feet
 Total Depth 109.48 feet Volume in Well 2.4378 gallons
 (3 Well Volumes = 7.31 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:41 12-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:46	1	1	22.6	2769	7.89	106	2101
9:50	1	2	22.6	2762	7.71	100	2092
9:53	1	3	22.7	2759	7.63	100	2093
9:56	1	4	22.5	2764	7.56	100	2093
9:59	1	5	22.0	2765	7.53	99	2091
10:03	1	6	21.9	2762	7.51	99	2092
10:04	1	7	21.7	2767	7.49	98	2097
			2				

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

Time/Date Sampled 10:04 12-4-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID ~~DAD-16~~ DAD-16 Date Gauged 12-3-14
 Site _____ Time Gauged 10:56
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 18.9 feet Height of Fluid Column 13.76 feet
 Total Depth 32.66 feet Volume in Well 2,3392 gallons
 (3 Well Volumes = 7 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:01 12-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:04	1	1	19.1	4128	7.82	111	3212
11:06	1	2	19.0	4102	7.66	116	3189
11:09	1	3	19.4	4100	7.64	117	3180
11:11	1	4	19.2	4098	7.58	118	3180
11:13	1	5	19.1	4101	7.56	118	3181
11:15	1	6	19.1	4095	7.55	119	3177
11:18	1	7	19.0	4090	7.50	119	3175

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

Time/Date Sampled 11:18 12-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft .4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-17 Date Gauged 12-5-14
 Site _____ Time Gauged 9:00
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 21.94 feet Height of Fluid Column 13.29 feet
 Total Depth 35.23 feet Volume in Well 2.2593 gallons
 (3 Well Volumes = 6.77 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:04 12-5-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:06	1	1	24.4	2673	7.76	180	2031
9:08	1	2	23.8	2661	7.65	184	2001
9:10	1	3	23.7	2660	7.58	186	2002
9:13	1	4	23.9	2655	7.52	187	2007
9:15	1	5	23.8	2654	7.48	188	1997
9:17	1	6	23.7	2651	7.45	188	2003
9:19	.75	6.75		2650	7.42	189	2002

Actual Purge Volume 6.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:19 12-5-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-18 Date Gauged 12-5-14
 Site _____ Time Gauged 9:26
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 24.80 feet Height of Fluid Column 31.38 feet
 Total Depth 56.26 feet Volume in Well 5.3346 gallons
 (3 Well Volumes = 16. gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:32 12-5-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:42	9	9	21.9	4167	7.57	154	3523 3523
9:43	1	10	21.8	4173	7.45	160	3250
9:44	1	11	21.7	4166	7.36	162	3238
9:45	1	12	21.6	4171	7.31	165	3242
9:47	1	13	21.6	4174	7.28	166	3244
9:48	1	14	21.6	4173	7.26	167	3243
9:49	1	15	21.5	4174	7.24	167	3244
9:50	1	16	21.6	4175	7.23	167	3245

Actual Purge Volume 16 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:50 12-5-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-A Date Gauged 12-5-14
 Site _____ Time Gauged 10:03
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 64.65 feet Height of Fluid Column 34.55 feet
 Total Depth 99.2 feet Volume in Well 5.8735 gallons
 (3 Well Volumes = 17.62 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:10 12-5-14 Purged Method Bar Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:23	11	11	21.2	4235	7.57	167	3301
10:25	1	12	21.5	4197	7.49	176	3276
10:26	1	13	21.7	4202	7.41	173	3277
10:27	1	14	21.6	4210	7.36	175	3274
10:29	1	15	21.7	4207	7.40	171	3272
10:30	1	16	21.8	4208	7.36	182	3273
10:31	1	17	21.8	4207	7.31	173	3274
10:32	.75	17.75	21.7	4205	7.29	173	3271

Actual Purge Volume 17.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:32 12-5-14 Purged/Sampled By JV

Sample Method Bar

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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-20 Date Gauged 12-4-14
 Site _____ Time Gauged 11:47
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 54.41 feet Height of Fluid Column 14.59 feet
 Total Depth 69.0 feet Volume in Well 2.4803 gallons
 (3 Well Volumes = 7.44 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:51 12-4-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:54	1	1	22.4	3727	7.72	140	2865
11:58	1	2	22.3	3721	7.69	146	2857
12:01	1	3	22.1	3714	7.63	149	2852
12:04	1	4	22.0	3704	7.59	151	2844
12:07	1	5	22.0	3699	7.57	152	2840
12:11	1	6	21.9	3699	7.54	153	2839
12:13	1	7	21.9	3698	7.52	154	2840
12:14	.5	7.5	21.8	3701	7.48	154	2840

Actual Purge Volume 7.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:14 12-4-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-21 Date Gauged 12-14-14
 Site _____ Time Gauged 12:57
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 56.98 feet Height of Fluid Column 9.55 feet
 Total Depth 66.53 feet Volume in Well ~~1.6235~~ 1.6235 gallons
 (3 Well Volumes = 4.87 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:05 12-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
13:08	1	1	21.4	2823	7.54	159	2150
13:12	1	2	21.6	2798	7.42	164	2124
13:15	1	3	21.5	2788	7.34	167	2111
13:17	1	4	21.5	2779	7.31	168	2101
13:21	1	5	21.4	2768	7.28	169	2096

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:21 ~~12-4-14~~ Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-22 Date Gauged 12-3-14
 Site _____ Time Gauged 13:00
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 47.16 feet Height of Fluid Column 2.88 feet
 Total Depth 50.04 feet Volume in Well .4896 gallons
 (3 Well Volumes = 1.46 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:06 12-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
13:11	.5	.5	22.0	3908	8.09	140	3026
	.5	1.5					

Actual Purge Volume .5 gallons Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:11 12-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations ~~THROUGH~~ NOT ENOUGH WATER TO PULL 1.5 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

TraceAnalysis, 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: Full Petroleum & Environmental Phone #: 915-859-8150

Address: 1277 Tower Drive, El Paso, TX 79907 Fax #: _____

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

Invoice to: _____

(If different from above) PO Box 19, Mesquite, NM 88048

Project #: 45520 Project Name: VARIOUS DAIRIES

Project Location (including state): Various Dairies, Deaf Ana County Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING DATE	TIME	INST	OBS	COR	REMARKS:
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH						
	DAD-07	1	250	X				X			X		11-15				
	DAD-09	1		X				X			X		11-15				
	DAD-10	1		X				X			X		11-15				
	DAD-11	1		X				X			X		11-15				
	DAD-12	1		X				X			X		11-15				
	DAD-13	1		X				X			X		11-15				
	DAD-14	1		X				X			X		11-15				

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Exh	
TPH 8015 GRO / DRO / TVHC	
PAH 8270 / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260 / 624	
GC/MS Semi. Vol. 8270 / 625	
PCB's 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Nitrates EPA 300.0	X
TKN SM 5500 NORG C	X
Chlorophyll EPA 200.0	X
TDS SM 2546 & MUD	X

LAB USE ONLY

Relinquished by: [Signature] Company: D-4 R-5-14 Date: 11-15 Time: _____

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

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

INST _____ OBS _____ COR _____

INST _____ OBS _____ COR _____

INST _____ OBS _____ COR _____

Intact Y / N

Headspace Y / N / NA

Log-in-Review _____

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-01 Date Gauged 12-2-14
 Site DEI CRU Time Gauged 10:23
 Depth to PSH _____ feet Well Diameter Pump inches
 Depth to Water 61.47 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:30 12-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:32	1	1	21.2	4314	7.52	-69	3366
10:34	1	2	21.1	4319	7.47	-67	3367
10:36	1	3	21.1	4311	7.41	-66	3360
10:38	1	4	21.0	4316	7.38	-65	3363
10:40	1	5	21.0	4313	7.36	-62	3362

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:40 12-2-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID W42-02 Date Gauged 12-2-14
 Site DBI PRO Time Gauged 10:55
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 59.31 feet Height of Fluid Column 7.39 feet
 Total Depth 66.7 feet Volume in Well 4.8774 gallons
 (3 Well Volumes = 14.6 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:00 12-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:27	7	7	20.7	5425	7.43	119	4349
11:36	1	8	20.9	5433	7.33	121	4352
11:32	1	9	21.0	5416	7.22	121	4315
11:35	1	10	20.9	5410	7.18	121	4311
11:38	1	11	20.6	5415	7.13	120	4316
11:41	1	12	20.6	5413	7.12	120	4314
11:44	1	13	20.6	5404	7.07	119	4306
11:46	1	14	20.5	5400	7.05	119	4304

Actual Purge Volume 14 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 11:46 12-2-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-04 Date Gauged 12-2-14
 Site DEL ORO Time Gauged 11:53

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 60.15 feet Height of Fluid Column .36 feet
 Total Depth 60.51 feet Volume in Well .2376 gallons
 (3 Well Volumes = .71 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:59 12-2-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:06	.25	.25	19.3	3596	7.68	116	2.64

Actual Purge Volume .25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:06 12-2-14 Purged/Sampled By JV

Sample Method _____

Requested Analyses _____

Comments/Observations BARELY ENOUGH WATER TO PURGE FOR SAMPLES

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-05 Date Gauged 12-2-14
 Site DELORO Time Gauged 13:01
 Depth to PSH _____ feet Well Diameter Pump inches
 Depth to Water 81.03 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:07 12-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:09	1	1	21.2	2302	7.77	158	1718
13:11	1	2	21.6	2299	7.72	166	1711
13:13	1	3	21.5	2295	7.67	170	1708
13:15	1	4	21.4	2294	7.64	174	1707
13:17	1	5	21.3	2297	7.61	176	1709

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 13:17 12-2-14 Purged/Sampled By JV
 Sample Method Pump
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-00 Date Gauged 12-2-14
 Site DEL ORO Time Gauged 8:30
 Depth to PSH _____ feet Well Diameter ~~3.5~~ 4 inches
 Depth to Water 82.94 feet Height of Fluid Column 7.24 feet
 Total Depth 90.18 feet Volume in Well 4.7784 gallons
 (3 Well Volumes = 14 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:30 12-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:03	7	7	20.3	2343	8.06	156	1744
9:07	1	8	20.1	2291	7.85	163	1703
9:11	1	9	20.0	2290	7.87	170	1704
9:13	1	10	20.1	2287	7.52	189	1700
9:16	1	11	19.9	2290	7.54	188	1703
9:20	1	12	19.8	2285	7.53	186	1698
9:23	1	13	19.6	2290	7.51	184	1703
9:25	1	14	19.6	2295	7.44	183	1707

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

Time/Date Sampled 9:25 12-2-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-07 Date Gauged 12-2-14

Site DELCRO Time Gauged 9:37

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 74.68 feet Height of Fluid Column _____ feet

Total Depth PUMP feet Volume in Well _____ gallons

(3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:43 12-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
	1	1					
	1	2					
	1	3					
	1	4					
	1	5					

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE PUMP WAS NOT WORKING.

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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-08 Date Gauged 12-2-14
 Site DEL CRO Time Gauged 9:53

Depth to PSH _____ feet Well Diameter Pump inches
 Depth to Water 68.51 feet Height of Fluid Column NA feet
 Total Depth Pump feet Volume in Well NA gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:06 12-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:07	1	1	19.8	2173	7.80	-48	1623
10:09	1	2	19.6	2169	7.69	-67	1605
10:10	1	3	19.5	2159	7.64	-75	1600
10:12	1	4	19.4	2165	7.59	-94	1603
10:14	1	5	19.4	2161	7.56	-95	1600

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:14 12-2-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-09 Date Gauged 12-2-14
 Site Del Oro Time Gauged 12:29
 Depth to PSH _____ feet Well Diameter Pump inches
 Depth to Water 83.52 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:35 12-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:37	1	1	20.9	2231	8.03	136	1661
12:38	1	2	22.0	2208	7.93	141	1637
12:39	1	3	22.4	2215	7.84	134	1647
12:40	1	4	22.7	2233	7.77	129	1659
12:41	1	5	22.7	2224	7.74	128	1651

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:41 12-2-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

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 #: 455537
Project Name: Jerry Settles 575-882-4331
Del Oro Dairy
Sampler Signature: *Jerry*

Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, 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	DATE	TIME
	692-LAGUN	1	250	X				X		X				12-2-14	8:07
	692-LAGUN	1		X				X		X					8:07
	692-G1			X				X		X				10:40	10:40
	692-G1			X				X		X				11:40	11:40
	692-O2			X				X		X				11:46	11:46
	692-O2			X				X		X				12:06	12:06
	692-O4			X				X		X				12:06	12:06
	692-O5			X				X		X				13:17	13:17
	692-O5			X				X		X				09:25	09:25
	692-O6			X				X		X				09:25	09:25
	692-O6			X				X		X				10:14	10:14
	692-O8			X				X		X				10:41	10:41
	692-O8			X				X		X				12:41	12:41
	692-O9			X				X		X				12:41	12:41
	692-O9			X				X		X				12:41	12:41

Relinquished By: *Jerry* Date: 12-2-14 Time: 14:10
Received at Laboratory By: *D. H. T. A.* Date: 12-2-14 Time: 14:40

Lab Use Only
 Intact N
 Headspace Y / N
 Temp 3/30
 In Review

Remarks: CAREY IN

Dry Weight Basis Required

ANALYSIS REQUEST

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 62401 Date Gauged 11-17-14
 Site Dorwater Time Gauged 12:24
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 28.27 feet Height of Fluid Column 18.43 feet
 Total Depth 46.7 feet Volume in Well ~~11.1638~~ 12.1638 gallons
 (3 Well Volumes = 36.49 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~12:28~~ ^{12:28} 11-17-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:34	30	30	20.4	4271	7.73	255	3331
13:36	1	31	20.3	4276	7.33	270	3332
13:39	1	32	20.9	4274	7.56	258	3330
13:42	1	33	20.9	4285	7.59	²⁴³ 230	3340
13:44	1	34	20.7	4289	7.47	252	3343
13:47	1	35	20.6	4294	7.46	258	3347
13:49	1	36	20.5	4298	7.16	268	3348
13:50	1.5	36.5	20.3	4303	7.53	246	3354

Actual Purge Volume 36.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:50 11-17-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-02 Date Gauged 11-18-14
 Site Douglass Time Gauged 9:05
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 19.69 feet Height of Fluid Column 17.61 feet
 Total Depth 37.3 feet Volume in Well 11.6226 gallons
 (3 Well Volumes = 34 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:11 11-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:57	27	27	18.0 16.9	4832	7.39	174	3827
9:59	1	28	17.6	4797	7.34	173	3779
10:01	1	29	17.5	4782	7.27	176	3765
10:03	1	30	16.9	4811	7.25	176	3789
10:06	1	31	17.0	4785	7.23	177	3768
10:08	1	32	16.9	4787	7.22	177	3769
10:09	1	33	16.8	4779	7.20	177	3759
10:12	1	34	16.7	4784	7.21	178	3766

Actual Purge Volume 34 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:12 11-18-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-04 Date Gauged 11-18-14
 Site DOMINGUEZ Time Gauged 8:32

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 17.5 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)	DO (mg/L)

Actual Purge Volume _____ gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled _____ Purged/Sampled By _____
 Sample Method _____
 Requested Analyses _____
 Comments/Observations THE 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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 62405 Date Gauged 11-18-14
 Site Dominique Time Gauged 8:43

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 17.4 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-06 Date Gauged 11-17-14
 Site Damwater Time Gauged 11:53
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 52.23 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 DEVELOPMENT-FIELD FORM

FLUID LEVEL DATA

Well ID 624-07 Date Gauged 11-17-14

Site Damnwake Time Gauged 11:44

Depth to PSH _____ feet Well Diameter 4 inches

Depth to Water 55.59 feet Height of Fluid Column .11 feet

Total Depth 55.7 feet Volume in Well .0726 gallons

(3 Well Volumes = .21 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THERE IS NOT ENOUGH WATER TO PURGE.

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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-08 Date Gauged 11-18-17
 Site Dominion Time Gauged 8:50

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 19.4 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-02 ~~42-02~~ ~~42-02~~ Date Gauged 11-18-14
 Site Dominquez II Time Gauged 10:23
 Depth to PSH _____ feet Well Diameter Pump inches
 Depth to Water 29.01 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:28 11-18-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:30	1	1	20.2	3589	7.77	175	2747
10:31	1	2	19.8	3573	7.62	190	2734
10:33	1	3	19.5	3570	7.58	181	2733
10:35	1	4	19.4	3569	7.28	194	2732
10:37	1	5	19.4	3567	6.78	196	2730

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:37 11-18-14 Purged/Sampled By JV
 Sample Method Pump
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-03 Date Gauged 11-19-14
 Site Dominion II Time Gauged 9:00
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 84.66 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:05 11-19-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul. Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:06	1	1	19.1	5506	6.62	267	4416
9:07	1	2	19.7	5538	6.58	267	4415
9:08	1	3	20.3	5477	6.60	266	4370
9:10	1	4	20.2	5461	6.65	266	4360
9:12	1	5	20.1	5461	6.66	266	4366

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:12 11-19-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-06 Date Gauged 11-18-14

Site Dominquez II Time Gauged 11:05

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 34.86 feet Height of Fluid Column _____ feet

Total Depth Pump feet Volume in Well _____ gallons

(3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:09 11-18-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:11	1	1	20.7	3158	2.40	446	2399
11:13	1	2	20.4	3155	7.62	174	2392
11:15	1	3	20.1	3153	7.31	193	2393
11:17	1	4	20.0	3151	7.14	190	2390
11:20	1	5	20.0	3155	7.11	188	2391

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:20 11-18-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID ~~4207~~ 4207 Date Gauged 11-18-14

Site Dominion II Time Gauged 12:36

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 0 feet Height of Fluid Column _____ feet

Total Depth Pump 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-08 Date Gauged 11-18-14
 Site Dominquez II Time Gauged 10:45

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 31.01 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:51 11-18-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:52	1	1	21.6	2180	8.11	130	1615
10:52	1	2	20.9	2186	8.04	134	1619
10:57 10:58	1	3	20.4	2188	7.82	141	1621
11:01	1	4	19.9	2186	7.95	140	1619
11:04	1	5	19.7	2184	7.96	140	1618

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:04 11-18-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-09 Date Gauged 11-18-14

Site Danville II Time Gauged 11:37

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 50.23 feet Height of Fluid Column _____ feet

Total Depth Pump feet Volume in Well _____ gallons

(3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:45 11-18-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:47	1	1	21.5	4640	7.38	-266	3645
11:49	1	2	21.4	4633	7.49	150	3638
11:51	1	3	21.2	4629	7.55	152	3634
11:53	1	4	20.9	4626	7.68	158	3630
11:55	1	5	20.6	4629	7.63	171	3632

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:55 11-18-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-10 Date Gauged 11-19-14
 Site DOMINGUEZ II Time Gauged 10:21
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 115.54 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:25 11-19-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:27	1	1	24.5	2334	7.20	234	1737
10:29	1	2	24.9	2302	7.16	223	1714
10:31	1	3	24.6	2289	7.17	217	1703
10:32	1	4	24.4	2294	7.16	211	1706
10:33	1	5	24.3	2284	7.15	205	1700

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:33 11-19-14 Purged/Sampled By JU

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-11 Date Gauged 11-19-14
 Site DOMINOZ II Time Gauged 9:35
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 126.01 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:43 11-19-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:44	1	1	23.0	1989	7.43	226	1443
9:47	1	2	23.3	1971	7.38	237	1448
9:49	1	3	22.9	1962	7.35	243	1433
9:51	1	4	23.1	1968	7.34	247	1429
9:53	1	5	22.9	1966	7.31	249	1427

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:53 11-19-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-12 Date Gauged 11-19-14
 Site Dominion I Time Gauged 10:00

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 132.33 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:04 11-19-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:06	1	1	22.3	1974	7.26	254	1436
10:08	1	2	23.4	1962	7.34	250	1424
10:10	1	3	23.1	1934	7.31	252	1426
10:11	1	4	23.2	1959	7.28	253	1422
10:13	1	5	23.1	1963	7.25	254	1424

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:13 11-19-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-13 Date Gauged 11-18-14

Site DOMINGUEZ II Time Gauged 12:15

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 57.3 feet Height of Fluid Column _____ feet

Total Depth Pump feet Volume in Well _____ gallons

(3 Well Volumes = 5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:21 11-18-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>12:26</u> <u>11/18/14</u>	<u>1</u>	<u>1</u>	<u>19.9</u>	<u>5221</u>	<u>6.37</u>	<u>167</u>	<u>4.045</u>

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:26 11-18-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations THE WATER WAS EXTREMELY SLOW TO PUMP STOPPED AT LITTLE OVER A GALLON.

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: 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 #: 455524
Project Name: Dominguez Dairy #2
Sampler Signature: *[Signature]*

Project Location (including state): Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM
Invoice to (if different from above): Isaac Dominguez 575-649-7040
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

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		
42-01		1	7.50	X				X	X	X	X	X	11-18-14	12:10
42-02		1		X				X	X	X	X	X	10:37	10:37
42-03		1		X				X	X	X	X	X	11:20	11:20
42-04		1		X				X	X	X	X	X	11:20	11:20
42-05		1		X				X	X	X	X	X	11:04	11:04
42-06		1		X				X	X	X	X	X	11:55	11:55
42-07		1		X				X	X	X	X	X	11:55	11:55
42-08		1		X				X	X	X	X	X	12:26	12:26
42-09		1		X				X	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
 Nitrates EPA 300
 Total Kjeldahl Nitrogen SM 4500 NORG C
 Chloride EPA 300.0
 Total Dissolved Solids SM 2540 C MOD

Hold
 Turn Around Time

Relinquished By: *[Signature]* Date: 11-18-14 Time: 13:10
 Received at Laboratory By: *[Signature]* Date: 11-18-14 Time: 13:10

Relinquished By: *[Signature]* Date: 11-18-14 Time: 16:13
 Received at Laboratory By: *[Signature]* Date: 11-18-14 Time: 13:10

Lab Use Only
 Intact Y N
 Headspace Y N
 Temp *[Signature]*
 Log-in Review *[Signature]*

Remarks: *[Signature]*

Dry Weight Basis Required
 TRRP Report Required

(12)

TraceAnalysis, Inc.

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

Invoice to (if different from above):
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048
Project #: 455524
Project Name: Dominguez Dairy #2
Sampler Signature: *[Signature]*

Project Location (including state):
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
42-03		1	2.50	X				X					11-19-14	9:12
42-03		1		X				X						9:12
42-10		1		X				X						10:33
42-10		1		X				X						10:33
42-11		1		X				X						9:53
42-11		1		X				X						9:53
42-12		1		X				X						10:13
42-12		1		X				X						10:13
42-Lagoon		1		X				X						8:37
42-Lagoon		1		X				X						8:37

Reinquired By: *[Signature]* Date: 11-19-14 Time: 13:21
 Received By: *[Signature]* Date: 11-19-14 Time: 13:21
 Date: 11-19-14 Time: 16:30

Lab Use Only
 Intact N
 Headspace Y / N
 Temp *[Signature]* 20
 Log-in Review

Remarks: *on file*
Carmy In
 Dry Weight Basis Required
 TRRP Report Required

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 NORGC	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	
Hold	

TraceAnalysis, 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

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: DAH PETROLEUM & ENVIRONMENTAL Phone #: 915-859-8150
 Address: (Street, City, Zip) 1221 TOWER TRAIL LN, EL PASO, TX, 79907 Fax #:
 Contact Person: VICTOR AYALA E-mail: vayala@dnpump.com
 Invoice to: (If different from above) P.O. Box 21, MESQUITE, NM, 88048 575-649-7040
 Project #: 455523 Project Name: DOMINIQUE 7
 Project Location (including state): 13600 STERN DR, MESQUITE, NM Sampler Signature: [Signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	GC/MS Vol. 8260 / 624	BOD, TSS, pH	Moisture Content	Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity	Na, Ca, Mg, K, TDS, EC	NITRATE EPA 300.0	TKN SM 4500 NORG C	CHLORIDE EPA 300.0	TDS SM 2540 C MOD	Turn Around Time if different from standard	Hold
BTEX 8021 / 602 / 8260 / 624	GC/MS Semi. Vol. 8270 / 625	Pesticides 8081 / 608									
TPH 418.1 / TX1005 / TX1005 EXI(C35)	PCB's 8082 / 608										
TPH 8015 GRO / DRO / TVHC	Pesticides 8081 / 608										
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											

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	
379921	624-02	1	250	X						X					11-10	10:12
L-2	624-02	1	250	X							X	X			↓	↓

Relinquished by: <u>[Signature]</u> Company: <u>DAH</u> Date: <u>11-10-14</u> Time: <u>13:10</u>	Received by: <u>[Signature]</u> Company: <u>MRC TRAP</u> Date: <u>11-18-14</u> Time: <u>13:10</u>	INST <u>IR</u> OBS <u>2.0</u> COR <u>2.0</u>
Relinquished by: <u>[Signature]</u> Company: <u>MRC TRAP</u> Date: <u>11-18-14</u> Time: <u>16:30</u>	Received by: <u>[Signature]</u> Company: <u>MRC TRAP</u> Date: <u>11-18-14</u> Time: <u>16:30</u>	INST <u>IR</u> OBS <u>4.1</u> COR <u>4.0</u>

LAB USE ONLY

Intact: Y/N

Headspace: Y/N/NA

REMARKS: on file

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

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

ORIGINAL COPY

Carrier # Carry In LS 21503797

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-01 Date Gauged 11-13-14
 Site GONZALEZ Time Gauged 13:46
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 19.12 feet Height of Fluid Column 6.15 feet
 Total Depth 25.27 feet Volume in Well 4.059 gallons
 (3 Well Volumes = 12.17 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:52 11-13-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
14:03	6	6	18.4	6119	7.52	228	4949
14:05	1	7	18.7	6149	7.46	228	4965
14:07	1	8	18.6	6139	7.42	229	4951
14:09	1	9	18.2	6094	7.40	230	4913
14:11	1	10	18.5	6077	7.39	226	4898
14:13	1	11	18.2	6087	7.37	225	4906
14:14	1	12	18.0	6097	7.35	227	4916
14:15	.25	12.25	17.9	6086	7.35	227	4901

Actual Purge Volume 12.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 14:15 11-13-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-02 Date Gauged 11-14-14
 Site GONZALEZ Time Gauged 9:11
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 19.81 feet Height of Fluid Column 5.49 feet
 Total Depth 25.30 feet Volume in Well 3.6234 gallons
 (3 Well Volumes = 10.87 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:16 11-14-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:19	4	4	20.7	4682	7.72	189	3687
9:21	1	5	20.4	4636	7.63	185	3641
9:24	1	6	20.5	4611	7.26	195	3625
9:27	1	7	20.5	4600	7.41	194	3616
9:29	1	8	20.4	4602	7.39	194	3611
9:31	1	9	20.3	4592	7.37	194	3604
9:33	1	10	20.3	4601	7.38	193	3611
9:35	1	11	19.9	4609	7.37	192	3615

Actual Purge Volume 11 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:35 11-14-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-03 Date Gauged 11-13-14
 Site Gonzalez Time Gauged 11:50
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 21.63 feet Height of Fluid Column 13.55 feet
 Total Depth 35.18 feet Volume in Well 2.3035 gallons
 (3 Well Volumes = 6.91 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:56 11-13-14 Purged Method Ball

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:58	1	1	21.8	2987	7.25	191	2256
12:00	1	2	22.0	2898	7.18	192	2182
12:02	1	3	21.7	2865	7.15	192	2155
12:04	1	4	21.8	2862	7.13	193	2153
12:06	1	5	21.0	2838	7.14	192	2154
12:08	1	6	20.8	2808	7.13	191	2128
12:11	1	7	20.6	2801	7.14	191	2127
12:13							

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

Time/Date Sampled 12:13 11-13-14 Purged/Sampled By JV

Sample Method Ball

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT-FIELD FORM

FLUID LEVEL DATA

Well ID 177-04 Date Gauged 11-13-14
 Site GONZALEZ Time Gauged 12:17
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 25.77 feet Height of Fluid Column 20.46 feet
 Total Depth 46.23 feet Volume in Well 13.5 gallons
 (3 Well Volumes = 40.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:21 11-13-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:18	34	34	20.2	5924	7.26	219	4773
13:21	1	35	18.8	5819	7.23	220	4671
13:24	1	36	19.1	5815	7.19	222	4675
13:26	1	37	19.0	5810	7.17	223	4655
13:29	1	38	18.6	5818	6.91	209	4667
13:31	1	39	18.2	5825	7.13	217	4671
13:33	1	40	17.8	5817	6.91	239	4665
13:34	.5	40.5	17.8	5823	6.95	242	4672

Actual Purge Volume 40.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:34 11-13-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-05 Date Gauged 11-13-14
 Site GONZALEZ Time Gauged 10:36
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 37.8 feet Height of Fluid Column 11 feet
 Total Depth 48.8 feet Volume in Well ~~48.8~~ 7.26 gallons
 (3 Well Volumes = 21.78 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:41 11-13-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:24	15	15	18.9	5378	7.30	197	4345
11:27	1	16	18.7	5367	7.28	198	4286
11:30	1	17	17.0	5373	7.27	199	4282
11:32	1	18	17.7	5341	7.28	198	4255
11:35	1	19	17.5	5353	7.28	198	4264
11:37	1	20	17.2	5361	7.28	197	4272
11:40	1	21	16.2	5355	7.32	198	4277
11:42	.75	21.75	16.5	5349	7.30	198	4267

Actual Purge Volume 21.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:42 11-13-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-06 Date Gauged 11-13-14

Site GONZALEZ Time Gauged 10:30

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 0 feet Height of Fluid Column NA feet

Total Depth 51.7 feet Volume in Well NA 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-07 Date Gauged 11-14-14
 Site CONRAEZ Time Gauged 9:45
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 46.57 feet Height of Fluid Column 7.55 feet
 Total Depth 54.12 feet Volume in Well 4.983 gallons
 (3 Well Volumes = 14.949 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:51 11-14-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:17	8	8	18.5	5369	7.49	-498	4304
10:20	1	9	19.6	5410	7.20	210	4305
10:23	1	10	19.9	5382	7.38	199	4289
10:26	1	11	19.8	5390	7.37	199	4293
10:30	1	12	19.6	5381	7.36	198	4285
10:33	1	13	19.5	5377	7.35	207	4284
10:36	1	14	19.3	5384	7.33	199	4288
10:39	1	15	19.3	5379	7.33	198	4284

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

Time/Date Sampled 10:39 11-14-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

6701 Aberdeen, Ste. 9 Lubbock, TX 79424 Tel (806) 794-1296 Fax (806) 794-1298

TraceAnalysis, Inc.

Company Name: D&H Petroleum & Environmental Services

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

Contact Person: Victor Ayala

Phone #: 915-859-8150

Cell #: 915-859-8150

Fax #: 915-859-8150

E-mail: vajala@dhpump.com

Project Name: Joe Gonzalez 575-233-4801

Project #: 455526

Sampler Signature: *JG*

Project Location (including state): Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

Gonzalez Dairy, PO Box 199, Mesquite, NM 88048

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		TIME	DATE	Turn Around Time	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ O ₂	NaOH	ICF	NONE	DATE				
	177-01	1	2.80	X				X			X				11-13-14	14:15		
	177-01	1		X				X			X				14:15			
	177-03	1		X				X			X				12:13			
	177-03	1		X				X			X				12:13			
	177-04	1		X				X			X				13:34			
	177-04	1		X				X			X				13:34			
	177-05	1		X				X			X				11:42			
	177-05	1		X				X			X				11:42			

ANALYSIS REQUEST

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

Remarks:

Relinquished By: *JWS* Date: 11-13-14 Time: 14:10
 Received By: *[Signature]* Date: 11-13-14 Time: 14:10
 Relinquished By: *JWS* Date: 11-13-14 Time: 14:10
 Received By: *[Signature]* Date: 11-13-14 Time: 14:10

Lab Use Only
 Intact Y / N
 Headspace Y / N
 Temp D / C
 Log-In Review Y / N
 Dry Weight Basis Required Y / N
 TRRP Report Required Y / N

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-01 Date Gauged 11-17-14
 Site MT. VIEW Time Gauged 8:47

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 37.19 feet Height of Fluid Column 9.36 feet
 Total Depth 46.55 feet Volume in Well 6.1776 gallons
 (3 Well Volumes = 18.5328 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:52 11-17-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:32	12	12	19.9	4184	7.50	165	3242
9:36	1	13	19.7	4090	7.39	164	3164
9:40	1	14	19.2	4089	7.26	164	3152
9:43	1	15	19.3	4059	7.12	173	3144
9:46	1	16	18.9	4049	7.21	163	3135
9:49	1	17	18.7	4058	7.15	162	3146
9:51	1	18	17.8	4055	7.14	162	3138
9:52	.5	18.5	17.7	4054	7.12	161	3139

Actual Purge Volume 18.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:52 11-17-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-02 Date Gauged 11-17-14
 Site MT. VIEW Time Gauged 11:01

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 46.7 feet Height of Fluid Column 2.9 feet
 Total Depth 49.6 feet Volume in Well 1.914 gallons
 (3 Well Volumes = 5.742 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~11:06~~ 11-17-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:10	1	1	20.5 20.4	5030	7.75	243	3995
11:12	1	2	20.4	4985	7.63	239	3955
11:15	1	3	20.1	4993	7.00	275	3948
11:18	1	4	19.6	5000	6.88	296	3956
11:21	1	5	19.6	4996	6.01	321	3963
11:23	.75	5.75	19.3	4986	7.44	245	3943

Actual Purge Volume 5.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:23 11-17-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-03 Date Gauged 11-14-14
 Site MT. VIEW Time Gauged 11:02
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 57.28 feet Height of Fluid Column 3.95 feet
 Total Depth 61.23 feet Volume in Well 2.607 gallons
 (3 Well Volumes = 7.821 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:07 11-14-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:11	1	1	20.5	10.12	7.34	213	8620
11:15	1	2	20.4	10.10	7.31	213	8592
11:19	1	3	20.6	10.03	7.26	212	8550
11:22	1	4	20.5	10.04	7.25	213	8532
11:25	1	5	20.5	9957	7.20	212	8439
11:28	1	6	20.3	9953	7.17	211	8443
11:32	1	7	20.1	9951	7.16	211	8438
11:36	1	8	20.0	9941	7.15	210	8429

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

Time/Date Sampled 11:36 11-14-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-04 Date Gauged 11-17-14
 Site MT. VIEW Time Gauged 9:58

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 35.24 feet Height of Fluid Column 12.63 feet
 Total Depth 47.87 feet Volume in Well 2.1471 gallons
 (3 Well Volumes = 6.44 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:03 11-17-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:06	1	1	20.1	4080	8.28	88	3154
10:08	1	2	20.0	4025	7.15	148	3118
10:11	1	3	19.9	4041	7.10	150	3126
10:13	1	4	21.2	4031	7.08	151	3121
10:16	1	5	20.7	4039	7.05	152	3127
10:19	1	6	20.6	4044	7.05	153	3128
10:21	.5	6.5	20.4	4035	7.01	154	3122

Actual Purge Volume 6.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:21 11-17-14 Purged/Sampled By Jv

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-04 Date Gauged 11-12-14
 Site ORGAN Time Gauged 12:45
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 35.65 feet Height of Fluid Column 2.55 feet
 Total Depth 38.2 feet Volume in Well 1.683 gallons
 (3 Well Volumes = 5.049 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:50 11-12-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:53	1	1	20.7	3081	7.52	99	2996
12:56	1	2	20.6	3908	7.36	106	3012
12:59	1	3	20.2	3893	7.29	108	2998
13:02	1	4	20.1	3888	7.27	110	2992
13:06	1	5	20.0	3883	7.26	111	2989

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:06 11-12-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-05 Date Gauged 11-12-14
 Site ORGAN Time Gauged 13:20
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 27.99 feet Height of Fluid Column 3.51 feet
 Total Depth 31.5 feet Volume in Well 5967 gallons
 (3 Well Volumes = 1.79 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:21 11-12-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:30	1	1	18.5	5342	7.36	121	4250
13:34	.75	1.75	18.2	5336	7.31	123	4247

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:34 11-12-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-07 Date Gauged 11-12-14
 Site ORGAN Time Gauged 11:37
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 36.35 feet Height of Fluid Column 2.75 feet
 Total Depth 39.1 feet Volume in Well 4.75 gallons
 (3 Well Volumes = 1.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:41 11-12-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:44	1	1	19.1	3959	7.21	4	3111
11:45	.5	1.5	19.7	3954	6.97	23	3063

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

Time/Date Sampled 11:45 11-12-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-09 Date Gauged 11-13-14
 Site ORGAN Time Gauged 8:45

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 78.24 feet Height of Fluid Column 4.31 feet
 Total Depth 82.55 feet Volume in Well 7327 gallons
 (3 Well Volumes = 2.19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:52 11-13-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:56	1	1	21.5	4266	6.97	134	3324
8:59	1	2	21.1	4218	6.95	138	3285
9:01	.25	2.25	19.9	4199	6.94	140	3262

Actual Purge Volume 2.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:01 11-13-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-12 Date Gauged 11-13-14
 Site ORGAN Time Gauged 9:30
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 23.63 feet Height of Fluid Column 6.27 feet
 Total Depth 29.9 feet Volume in Well 4.1382 gallons
 (3 Well Volumes = 12.41 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:35 11-13-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:58	6	6	19.2	3452	6.83	38	2647
10:01	1	7	19.0	3381	6.70	39	2579
10:03	1	8	18.9	3222	6.66	39	2447
10:06	1	9	18.0	3353	6.64	45	2558
10:08	1	10	17.5	3375	6.63	49	2570
10:16	1	11	15.9	3373	6.64	53	2572
10:13	1	12	16.1	3369	6.64	57	2567
10:14	0.5	12.5	16.5	3376	6.66	62	2575

Actual Purge Volume 12.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:14 11-13-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-13 Date Gauged 11-12-14
 Site ORGAN DAIRY Time Gauged 11:00AM

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 42.61 feet Height of Fluid Column 16.21 feet
 Total Depth 58.82 feet Volume in Well 2.7557 gallons
 (3 Well Volumes = 8.2671 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:06 11-12-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:12	2	2	20.6	4750	7.35	-3	3736
11:15	1	3	20.5	4733	7.18	29	3736
11:17	1	4	19.9	4705	7.12	40	3697
11:20	1	5	19.7	4712	7.06	46	3722
11:23	1	6	19.4	4718	7.04	48	3711
11:25	1	7	19.3	4716	7.01	52	3706
11:28	1	8	19.1	4722	6.97	55	3715
11:30	0.25	8.25	19.0	4724	6.96	57	3712

Actual Purge Volume 8.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:30 11-12-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 107-01A Date Gauged 11-20-14
 Site RIVER VALLEY Time Gauged 11:19
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 17.37 feet Height of Fluid Column 7.73 feet
 Total Depth 25.10 feet Volume in Well 1.3141 gallons
 (3 Well Volumes = 3.94 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~11:24~~ 11:24 11-20-14 Purged Method BAL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	^{TDS} DO (mg/L)
11:26	1	1	18.8	4394	7.75	97	4337
11:28	1	2	19.2	4403	7.55	88	3444
11:31	1	3	19.5	4400	7.58	98	3446
11:33	1	4	19.3	4410	7.54	97	3456

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

Time/Date Sampled 11:33 11-20-14 Purged/Sampled By JV

Sample Method BAL

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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-02 Date Gauged 11-20-14
 Site RIVER VALLEY Time Gauged 12:06
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 19.46 feet Volume in Well _____ gallons
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1 Purged Method BAIL

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

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE 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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-03 Date Gauged 11-24-14
 Site RIVER VALLEY Time Gauged 8:28
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 24.48 feet Height of Fluid Column 16.36 feet
 Total Depth 40.84 feet Volume in Well 10.7976 gallons
 (3 Well Volumes = 32.39 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~8:41~~ 8:41 11-24-14 Purged Method ~~Pump~~ Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:56	26	26	19.2	3468	7.48	205	2639
8:58	1	27	19.1	3469	7.42	204	2636
9:00	1	28	19.2	3463	7.37	204	2634
9:02	1	29	19.1	3461	7.34	202	2632
9:04	1	30	19.0	3457	7.21	201	2628
9:06	1	31	18.9	3454	7.26	200	2624
9:08	1	32	18.7	3458	7.17	201	2622
9:10	.5	32.5	18.6	3451	7.14	201	2620

Actual Purge Volume 32.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:10 11-24-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-04 Date Gauged 11-24-14
 Site River Valley Time Gauged 9:25

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 26.21 feet Height of Fluid Column 3.94 feet
 Total Depth 30.15 feet Volume in Well 6698 gallons
 (3 Well Volumes = 2.0 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:31 11-24-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:33	1	1	18.3 18.9	5822	7.55	218	4670
9:36	1	2	19.1	5081	7.49	212	4043

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 9:36 11-24-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-05 Date Gauged 11-20-14
 Site River Valley Time Gauged 13:01

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 16.85 feet Height of Fluid Column 4.72 feet
 Total Depth 21.51 feet Volume in Well 8.024 gallons
 (3 Well Volumes = 2.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:08 11-20-14 Purged Method Bar

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:10	1	1	18.6	4734	7.70	144	3726
13:12	1	2	18.6	4693	7.59	152	3692
13:13	.5	2.5	18.8	4720	7.69	150	3701

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 13:13 11-20-14 Purged/Sampled By TV
 Sample Method Bar
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 16706 Date Gauged 11-20-14
 Site RIVER VALLEY Time Gauged 10:32

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 31.35 feet Height of Fluid Column 4.3 feet
 Total Depth 35.65 feet Volume in Well 0.731 gallons
 (3 Well Volumes = 2.19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:37 11-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
10:39	1	1	20.5	4116	7.53	181	3193
10:41	1	2	20.8	4099	7.45	189	3179
10:42	0.25	2.25	21.1	4097	7.39	191	3174

Actual Purge Volume 2.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:42 11-20-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-07 Date Gauged 11-20-14
 Site RIVER VALLEY Time Gauged 10:55

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 17.12 feet Height of Fluid Column 7.83 feet
 Total Depth 24.95 feet Volume in Well 1.3311 gallons
 (3 Well Volumes = 3.99 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:00 11-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:01	1	1	18.9	3066	7.89	-74	2322
11:03	1	2	19.6	2999	7.78	-98	2269
11:05	1	3	19.4	3045	7.64	-110	2302
11:07		4	19.3	3034	7.62	-111	2296

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 11:07 11-20-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-08 Date Gauged 11-24-14
 Site RIVER VALLEY Time Gauged 10:00

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 18.36 feet Height of Fluid Column 12.5 feet
 Total Depth 30.86 feet Volume in Well ~~11.25~~ 2.125 gallons
 (3 Well Volumes = 6.37 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:07 11-24-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:10	1	1	18.0	4923	7.46	68	3917
10:13	1	2	18.4	4881	6.74	83	3864
10:15	1	3	18.4	4875	6.85	109	3844
10:17	1	4	18.3	4878	7.28	47	3852
10:19	1	5	18.4	4869	7.27	46	3844
10:22	1	6	18.3	4875	7.22	45	3845
10:23	.5	6.5	18.2	4870	7.21	44	3841

Actual Purge Volume 6.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:23 11-24-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-09 Date Gauged 11-20-14
 Site RIVER VALLEY Time Gauged 12:20

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 16.8 feet Height of Fluid Column 2.97 feet
 Total Depth 19.77 feet Volume in Well .5049 gallons
 (3 Well Volumes = 1.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:30 11-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
12:32	1	1	18.5	4365	7.71	147	3412
12:33	.5	1.5	18.6	4351	7.29	161	3396

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

Time/Date Sampled 12:33 11-20-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

LAB USE ONLY	LAB Order ID #	ANALYSIS REQUEST
		Hold
		Turn Around Time
		Total Dissolved Solids SM 2540 C MOD
		Chloride EPA 300
		TKN SM 4500 NORG C
		Nitrates EPA 300
		Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7
		PAH 8270 (Low Level Analysis)
		PAH 8270C
		TX 1005 Extended (C35)
		TPH 418.1 / TX1005
		BTEX 8021B/602
		MTBE 8021B/602

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
	167-166	1	250	X			X						11:06	
	167-167	1		X			X						11:56	
	167-01A	1		X			X						11:33	
	167-01A	1		X			X						11:33	
	167-02	1		X			X							
	167-02	1		X			X							
	167-03	1		X			X							
	167-04	1		X			X						12:33	
	167-04	1		X			X						12:33	
	167-05	1		X			X						13:13	
	167-05	1		X			X						13:13	
	167-06	1		X			X						10:42	
	167-06	1		X			X						10:42	
	167-07	1		X			X						11:07	
	167-07	1		X			X						11:07	

Project Location (including state):
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

Project Name:
 River Valley Dairy, LLC

Sampler Signature: *[Signature]*

Project #:
 Bruce Bonestroo 575-233-2061

Company Name:
 D&H Petroleum & Environmental Services

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

Contact Person:
 Victor Ayala

Company Name:
 D&H Petroleum & Environmental Services

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

Contact Person:
 Victor Ayala

Company Name:
 D&H Petroleum & Environmental Services

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

Contact Person:
 Victor Ayala

Relinquished By: *[Signature]* Date: 11-20-17 Time: 14:40

Received By: *[Signature]* Date: 11-20-17 Time: 14:10

Relinquished By: *[Signature]* Date: 11-20-17 Time: 14:10

Received By: *[Signature]* Date: 11-20-17 Time: 14:10

Remarks: Carry for

Lab Use Only: Intact Y N

Headspace Y N

Temp Y N

Log-in Review Y N

Dry Weight Basis Required

TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-01 Date Gauged 12-1-14

Site SUNSET Time Gauged 11:40

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 23.13 feet Height of Fluid Column 2.43 feet

Total Depth 25.56 feet Volume in Well .4131 gallons

(3 Well Volumes = 1.23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:44 12-1-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:45 11:45	1	1	20.3	5152	7.86	165	4090
11:46	.25	1.25	20.4	5142	7.85	166	4080

Actual Purge Volume 1.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:46 12-1-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID A 257-02 Date Gauged 12-1-14

Site SUNSET Time Gauged 10:37

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 17.33 feet Height of Fluid Column 3.38 feet

Total Depth 20.71 feet Volume in Well .5746 gallons

(3 Well Volumes = 1.7238 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:32 12-1-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:33	1	1	19.9	4079	7.39	179	3171
10:34	.75	1.75	20.3	4043	7.38	177	3132

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:34 12-1-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-03 Date Gauged 12-1-14

Site SUNSET Time Gauged 12:29

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 13.75 ~~11.25~~ feet Height of Fluid Column _____ feet

Total Depth 13.75 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)	DO (mg/L)

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THERE IS NOT ENOUGH TO BAIL

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 DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257/260-01 Date Gauged 12-1-14
 Site SUNSET Time Gauged 12:38

Depth to PSH _____ feet Well Diameter 66 inches
 Depth to Water 14.87 feet Height of Fluid Column 5.35 feet
 Total Depth 20.22 feet Volume in Well 3.531 gallons
 (3 Well Volumes = 10.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:45 12-1-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:53	4	4	19.4	3311	7.87	131	2521
12:55	1	5	19.2	3307	7.42	139	2517
12:57	1	6	19.2	3298	7.07	175	2508
12:58	1	7	19.1	3292	7.38	180	2504
13:00	1	8	19.0	3286	7.29	150	2498
13:01	1	9	19.1	3278	7.23	157	2496
13:02	1	10	19.1	3274	7.21	164	2491
13:03	0.5	10.5	19.0	3271	7.18	171	2489

Actual Purge Volume 10.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:03 12-1-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

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

	Northing ^a	Easting ^a	Date	Time	Depth to Water (ft) ^b	Notes or Total Depth (ft) ^b
NORTHERN AREA						
Northern Land Application Area (DP-340)						
70-03	424580.78	1510233.88	11-5	10:15	57.25	61.23
70/86/340-01	427320.92	1508461.05	11-5	9:09	67.7	50.67
86/340-01	432021.33	1503216.90	11-5	8:49	57.31	71.0
Del Norte Dairy (DP-126)						
126-04	423258.23	1510546.24	11-5	11:02	35.62	38.2
126-05	422293.26	1510649.84		11:22	27.95	31.5
126-07	423613.62	1509986.47		11:40	36.34	39.1
126-09	425154.15	1510994.31		11:52	78.21	82.55
126-12	421492.11	1510198.45		11:30	23.65	29.9
126-13	423431.96	1510657.41	↓	11:08	42.63	58.82
Mountain View Dairy (DP-70)						
70-01	423303.43	1510585.63	11-5	10:04	37.17	46.65 46.65
70-02	423412.73	1511192.51	11-5	9:57	46.67	49.6
70-04			11-5	9:50	35.2	47.87
Buena Vista Dairy I (DP-86) - GAUGE ONLY						
86-01	421534.62	1511667.76	11-5	10:30	50.4	54.38
86-02	421792.08	1510881.53	11-5	10:45	20.00	48.5
Bright Star Dairy (DP-340)						
					33.01	
340-01	421410.13	1511423.42	11-5	9:26	43.66	48.0
340-02	420641.08	1512051.57	11-5	9:34	55.05	56.8
Gonzalez Dairy (DP-177)						
177-01	417300.94	1512942.63	11-5	1:27	18.96	25.27
177-02	416738.21	1513246.51		1:38	19.61	25.30
177-03A	416211.35	1513814.71		1:20	21.52	35.18
177-04	416796.99	1513733.28		1:14	25.66	46.23
177-05	417302.42	1514116.55		1:08	37.71	48.8
177-06	417301.84	1514765.63		1:06	0	51.7
177-07R	415258.95	1515471.64	↓	1:45	46.6	54.12
Dominguez 2 Dairy (DP-42)						
42-02	419982.45	1511126.19	11-6	8:34	30.94	Pump
42-03	419710.55	1514064.35		8:08	84.63	
42-06	420021.61	1511465.15		8:27	34.8	" " 34.83
42-07	420584.80	1513076.66		8:51	DRY	
42-08	419994.93	1511197.91		8:40	28.95	" " 30.97
42-09	419729.17	1512255.76		8:22	50.25	" " 50.21
42-10	421426.39	1514460.40		12:39	115.52	
42-11	420693.98	1515270.32		12:30	125.97	
42-12	420972.09	1515423.88		12:34	132.31	
42-13	419734.06	1512534.42	↓	8:17	57.27	↓

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

Monitoring Well	Northing ^a	Easting ^a	Date	Time	Depth to Water (ft) ^b	Notes or Total Depth (ft) ^b
Dominguez Dairy (DP-624)						
						RE-GAUGE: 11-10-14
624-01	418826.21	1512131.46	11/6/14	9:50	28.12	46.7 28.24 @ 10:20
624-02	417335.25	1512201.42		9:56	19.65	37.3
624-04	418542.24	1508104.07		10:06	Ø	17.5
624-05	419777.52	1509829.65		10:15	Ø	17.4
624-06	418502.42	1513981.08		9:40	Ø	52.23
624-07	418012.23	1514707.77		9:30	55.57	55.7
624-08	421461.78	1507712.04		10:25	Ø	19.4
CENTRAL AREA						
Buena Vista Dairy II (DP-74)						
74-01	405434.93	1519310.15	11/5/14	13:20	36.66	45.13
74-02	404574.08	1519035.52		13:14	17.16	20.15
74-03	407163.61	1516711.72		13:05	20.10	15.67 TP = 20.10
74-04	405488.65	1519864.48		13:24	49.58	57.84
74-05	404747.71	1519885.30	11/5/14	13:31	41.99	56.96
River Valley Dairy (DP-167)						
						RE-GAUGE: 11-10-14
167-01	402518.37	1518459.71	11/5/14	14:04	17.29	107.05 17.86 gauge only/do not sample 11:20
167-01A	402518.18	1518936.72		14:10	17.35	25.10
167-02	402498.30	1519354.81		14:13	18.90	19.86 DRY @ 11:24
167-03	402981.73	1519415.73		13:57	24.03	40.84 24.45 @ 11:10
167-04	402032.19	1519884.60		13:44	26.07	30.15 26.18 @ 11:36
167-05	397947.44	1520446.03		14:33	16.67	21.51 16.84 @ 11:54
167-06	404479.35	1519603.88		13:39	31.54	35.65 31.33 @ 11:40
167-07	402562.23	1518480.34		14:00	17.18	24.95 17.11 @ 11:16
167-08	399352.96	1519889.65		14:20	18.31	30.86
167-09	398473.95	1519259.34	11/5/14	14:29	16.78	19.77
Big Sky Dairy (DP-833)						
						RE-GAUGE: 11-10-14
833-01	399617.23	1521136.33	11/5/14	11:07	Dry	36.33
833-02	401200.32	1520639.92		11:41	35.48	57.70
833-03	401392.09	1521955.23		11:21	Dry	62.74 Dry
833-04	402898.52	1520659.33		11:34	43.68	53.67
833-05	399712.39	1522374.73		11:13	66.10	73.73 66.1 @ 10:47
833-06	402219.48	1522652.04		11:25	75.96	85.11
833-07	399298.80	1522082.75		10:58	63.14	73.42 61.75 @ 10:42
833-08	400535.64	1521938.23		11:17	61.27	72.50 61.22 @ 10:37
833-09	398280.67	1520918.52		10:51	27.74	39.40
833-10	396715.89	1520283.60	11/5/14	10:45	22.83	36.96 22.95 @ 10:58
Sunset/Desert Land Dairy (DP-257)						
						RE-GAUGE: 11-10-14
257-01	395856.31	1520572.16	11/5/14	10:10	23.11	25.86 23.2 @ 12:06
257-02	394728.34	1521030.29		10:05	17.49	20.71 17.45 @ 12:20
257-03	397935.69	1518746.14		10:26	Dry	13.75 Dry 13.75 @ 12:11
257/260-01	397678.36	1519948.22	11/5/14	10:19	14.93	20.22 COULD NOT GAUGE, IRRIGATING FIELD
SOUTHERN AREA						
Del Oro Dairy (DP-692)						

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

Monitoring Well	Northing ^a	Easting ^a	Date	Time	Depth to Water (ft) ^b	Notes or Total Depth (ft) ^b
692-01	373615.88	1531529.38	11/9/14	9:20	61.43	Pump
692-02	372984.72	1531192.10		9:13	59.27	66.70
692-04	372982.53	1531555.21		9:08	60.44	60.51
692-05	374807.26	1532403.00		8:46	81.06	Pump
692-06	375054.77	1532411.83		8:51	82.91	90.18
692-07	374944.88	1532019.81		8:56	74.65	Pump
692-08	375535.69	1531378.09		9:01	68.47	Pump
692-09	373575.83	1532395.09	11/10/14	8:35	83.56	Pump Probe Bottom out at 88.00 <small>No water</small>
ADDITIONAL WELLS AND DRAIN CROSSINGS (DAD)						
Bruce1	388741.02	1523777.06	3808.92	11/6/14		no way to Pool Lock Tread all
Bruce2	NM	NM	NM			Destroyed
Anthony Waste Water Treatment Plant (DAD)						
MW-1	372097.86	1532364.36	11/6/14	8:44	60.79	62.81
MW-2	NM	NM	↓	8:37	62.22	63.60
MW-3	NM	NM		8:49	Dry	59.01
ABATEMENT PLAN MONITOR WELLS						RE-GAUGE
DAD-01	422970.59	1512825.76	11/6/14	12:12	72.07	76.19
DAD-02	413002.98	1517319.93	11/6/14	11:51	61.60	68.09
DAD-03	407721.31	1516497.85	11/6/14	11:22	12.94	15.08
DAD-04	404576.66	1517413.28	11/6/14	11:31	15.29	18.47
DAD-05	396712.87	1519102.06	11/6/14	10:45	16.88	23.33 17.25 @ 12:30
DAD-06	404273.19	1522081.00	11/6/14	10:11	Dry	83.47
DAD-07	399270.18	1524320.88	11/6/14	10:18	92.34	100.69
DAD-08	395287.38	1522575.07	11/6/14	10:35	52.61	55.65
DAD-09	373259.30	1530905.70	11/6/14	9:17	56.69	61.44
DAD-10	372980.55	1532375.33	11/6/14	9:05	83.31	94.92
DAD-11			11/6/14	10:30	21.81	42.97 21.8 @ 11:15
DAD-12			11/6/14	12:08	51.90	82.30 51.93 @ 1:23
DAD-13			11/6/14	11:45	85.73	72.79 85.74 @ 1:38
DAD-14			11/6/14	10:41	29.55	42.46 29.5 @ 1:05
DAD-15			11/6/14	9:49	95.11	109.48
DAD-16			11/6/14	11:00	191.03	32.66 18.94 @ 12:46
DAD-17			11/6/14	10:51	21.96	38.23 21.76 @ 12:39
DAD-18			11/6/14	10:40	24.75	56.96 24.9 @ 12:33
DAD-19			11/6/14	10:27	64.68	99.19 64.5 @ 12:53
DAD-20			11/6/14	8:59	54.44	69.00
DAD-21			11/6/14	9:12	56.97	66.53
DAD-22			11/6/14	9:25	47.14	50.04

APPENDIX B
ANALYTICAL LABORATORY REPORTS
(Electronic Format – CD)



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 (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

Tim Hyde
 Bright Star Dairy
 13520 Stern Dr.
 P.O. Box 167
 Mesquite, NM, 88048

Report Date: November 14, 2014

Work Order: 14111219



Project Location: 13520 Stern Drive, Mesquite, NM
 Project Name: Bright Star Dairy
 Project Number: 455531

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
379211	86/340-01	water	2014-11-11	09:55	2014-11-11
379212	340-Lagoon	water	2014-11-11	11:30	2014-11-11

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 17 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
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2014-11-11 and assigned to work order 14111219. Samples for work order 14111219 were received intact at a temperature of 4 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	99049	2014-11-12 at 18:48	117154	2014-11-12 at 18:48
NO3 (IC)	E 300.0	99049	2014-11-12 at 18:48	117154	2014-11-12 at 18:48
TDS	SM 2540C	99043	2014-11-13 at 10:15	117144	2014-11-13 at 10:15
TKN	SM 4500-NH3 B,C	99061	2014-11-13 at 10:00	117167	2014-11-13 at 14:10

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14111219 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: 379211 - 86/340-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	398	398	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 379211 - 86/340-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	11.3	11.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379211 - 86/340-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2180	2180	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379211 - 86/340-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117167 Date Analyzed: 2014-11-13 Analyzed By: CF
 Prep Batch: 99061 Sample Preparation: 2014-11-13 Prepared By: CF

Report Date: November 14, 2014
455531

Work Order: 14111219
Bright Star Dairy

Page Number: 5 of 17
13520 Stern Drive, Mesquite, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379212 - 340-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	971	971	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379212 - 340-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	2.58	2.58	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379212 - 340-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	5830	5830	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379212 - 340-Lagoon

Report Date: November 14, 2014
455531

Work Order: 14111219
Bright Star Dairy

Page Number: 6 of 17
13520 Stern Drive, Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117167 Date Analyzed: 2014-11-13 Analyzed By: CF
Prep Batch: 99061 Sample Preparation: 2014-11-13 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117144
Prep Batch: 99043

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117167
Prep Batch: 99061

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: CF
Prepared By: CF

Report Date: November 14, 2014
455531

Work Order: 14111219
Bright Star Dairy

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13520 Stern Drive, Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379348

QC Batch: 117144
Prep Batch: 99043

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2730	2710	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117144
Prep Batch: 99043

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	971	mg/L	1	1000	<2.50	97	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	100	90 - 110	3	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.9	mg/L	1	25.0	<0.00680	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.9	mg/L	1	25.0	<0.00680	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110

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

Param	F	C	LCSD			Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117167
Prep Batch: 99061

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD			Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379287

QC Batch: 117167
Prep Batch: 99061

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120	0	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-11-12

Standard (CCV-1)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-11-12

Standard (CCV-2)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2014-11-12

Standard (CCV-2)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.90	98	90 - 110	2014-11-12

Standard (ICV-1)

QC Batch: 117167

Date Analyzed: 2014-11-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-11-13

Standard (CCV-1)

QC Batch: 117167

Date Analyzed: 2014-11-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-11-13

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jerry Settles
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Report Date: November 24, 2014

Work Order: 14111253



DP: 455527
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
379345	126-Lagoon	water	2014-11-12	12:30	2014-11-12
379346	126-04	water	2014-11-12	13:06	2014-11-12
379347	126-05	water	2014-11-12	13:34	2014-11-12
379348	126-07	water	2014-11-12	11:45	2014-11-12
379349	126-13	water	2014-11-12	11:30	2014-11-12

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-11-12 and assigned to work order 14111253. Samples for work order 14111253 were received intact at a temperature of 1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	99049	2014-11-12 at 18:48	117154	2014-11-12 at 18:48
NO3 (IC)	E 300.0	99049	2014-11-12 at 18:48	117154	2014-11-12 at 18:48
TDS	SM 2540C	99043	2014-11-13 at 10:15	117144	2014-11-13 at 10:15
TDS	SM 2540C	99161	2014-11-17 at 14:15	117289	2014-11-17 at 14:15
TKN	SM 4500-NH3 B,C	99168	2014-11-18 at 10:15	117298	2014-11-18 at 14:40

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 14111253 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: 379345 - 126-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1340	1340	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379345 - 126-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	3.15	3.15	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379345 - 126-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	6910	6910	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379345 - 126-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117298 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99168 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	243	243	<1.80	mg/L	1	1.80	10	1.8

Sample: 379346 - 126-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	556	556	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379346 - 126-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	16.4	16.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379346 - 126-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2400	2400	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379346 - 126-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117298 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99168 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	J	2,3,6,7	7.70	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379347 - 126-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Chloride		1,4,5	746	746	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379347 - 126-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result			(Unadjusted)	(Unadjusted)	
Nitrate-N		1,4,5	19.2	19.2	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379347 - 126-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

continued . . .

sample 379347 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	3500	3500	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379347 - 126-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117298 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99168 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	5.60	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379348 - 126-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	586	586	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379348 - 126-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	23.4	23.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379348 - 126-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2710	2710	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379348 - 126-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117298 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99168 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379349 - 126-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	801	801	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379349 - 126-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	33.9	33.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379349 - 126-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2940	2940	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379349 - 126-13

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117298 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99168 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117144
Prep Batch: 99043Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117154
Prep Batch: 99049Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117154
Prep Batch: 99049Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117298
Prep Batch: 99168

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379348QC Batch: 117144
Prep Batch: 99043Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2730	2710	mg/L	1	1	10

Duplicate (1) Duplicated Sample: 379549QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3320	3260	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117144
Prep Batch: 99043Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	971	mg/L	1	1000	<2.50	97	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	100	90 - 110	3	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 117154
Prep Batch: 99049Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.9	mg/L	1	25.0	<0.00680	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.9	mg/L	1	25.0	<0.00680	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117154
Prep Batch: 99049Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1,4,5	1000	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1,4,5	998	mg/L	1	1000	<2.50	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: 117298
Prep Batch: 99168

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	46.9	mg/L	1	50.0	<1.80	94	80.7 - 115

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	5	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379340QC Batch: 117154
Prep Batch: 99049Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1770	mg/L	55.6	1390	337	103	80 - 120

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		1,4,5	1760	mg/L	55.6	1390	337	102	80 - 120	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: 379340QC Batch: 117154
Prep Batch: 99049Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	328	mg/L	55.6	278	49.9	100	80 - 120

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		1,4,5	327	mg/L	55.6	278	49.9	100	80 - 120	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: 379497QC Batch: 117298
Prep Batch: 99168Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2014-11-12

Standard (CCV-2)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.90	98	90 - 110	2014-11-12

Standard (CCV-3)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.8	99	90 - 110	2014-11-12

Standard (CCV-3)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.97	99	90 - 110	2014-11-12

Standard (CCV-4)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.0	100	90 - 110	2014-11-12

Standard (CCV-4)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.00	100	90 - 110	2014-11-12

Standard (CCV-5)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2014-11-12

Standard (CCV-5)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.05	101	90 - 110	2014-11-12

Standard (ICV-1)

QC Batch: 117298

Date Analyzed: 2014-11-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-11-18

Standard (CCV-1)

QC Batch: 117298

Date Analyzed: 2014-11-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-11-18

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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 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
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 (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

Tim Hyde
 Bright Star Dairy
 13520 Stern Dr.
 P.O. Box 167
 Mesquite, NM, 88048

Report Date: November 24, 2014

Work Order: 14111248



Project Location: 13520 Stern Drive, Mesquite, NM
 Project Name: Bright Star Dairy
 Project Number: 455531

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
379339	70/86/340-01	water	2014-11-12	09:24	2014-11-12
379340	340-01	water	2014-11-12	09:58	2014-11-12
379341	340-02	water	2014-11-12	10:20	2014-11-12

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2014-11-12 and assigned to work order 14111248. Samples for work order 14111248 were received intact at a temperature of 1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	99049	2014-11-12 at 18:48	117154	2014-11-12 at 18:48
NO3 (IC)	E 300.0	99049	2014-11-12 at 18:48	117154	2014-11-12 at 18:48
TDS	SM 2540C	99043	2014-11-13 at 10:15	117144	2014-11-13 at 10:15
TKN	SM 4500-NH3 B,C	99168	2014-11-18 at 10:15	117298	2014-11-18 at 14:40

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 14111248 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: 379339 - 70/86/340-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	2090	2090	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379339 - 70/86/340-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	15.6	15.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379339 - 70/86/340-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	6320	6320	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379339 - 70/86/340-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117298 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99168 Sample Preparation: 2014-11-18 Prepared By: CF

Report Date: November 24, 2014
455531

Work Order: 14111248
Bright Star Dairy

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379340 - 340-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	337	337	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 379340 - 340-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
 Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	49.9	49.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379340 - 340-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
 Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2630	2630	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379340 - 340-01

Report Date: November 24, 2014
455531

Work Order: 14111248
Bright Star Dairy

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Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117298 Date Analyzed: 2014-11-18 Analyzed By: CF
Prep Batch: 99168 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379341 - 340-02

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	807	807	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379341 - 340-02

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117154 Date Analyzed: 2014-11-12 Analyzed By: JR
Prep Batch: 99049 Sample Preparation: 2014-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	90.1	90.1	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 379341 - 340-02

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 117144 Date Analyzed: 2014-11-13 Analyzed By: MC
Prep Batch: 99043 Sample Preparation: 2014-11-13 Prepared By: MC

continued . . .

sample 379341 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 Dissolved Solids		1,4,5	3320	3320	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379341 - 340-02

Laboratory: Lubbock
Analysis: TKN
QC Batch: 117298
Prep Batch: 99168

Analytical Method: SM 4500-NH3 B,C
Date Analyzed: 2014-11-18
Sample Preparation: 2014-11-18

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

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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117144
Prep Batch: 99043

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117298
Prep Batch: 99168

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: CF
Prepared By: CF

Report Date: November 24, 2014
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Work Order: 14111248
Bright Star Dairy

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379348

QC Batch: 117144
Prep Batch: 99043

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2730	2710	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117144
Prep Batch: 99043

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	971	mg/L	1	1000	<2.50	97	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	100	90 - 110	3	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.9	mg/L	1	25.0	<0.00680	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.9	mg/L	1	25.0	<0.00680	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117154
Prep Batch: 99049

Date Analyzed: 2014-11-12
QC Preparation: 2014-11-12

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110

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

Param	F	C	LCSD			Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117298
Prep Batch: 99168

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,6,7	46.9	mg/L	1	50.0	<1.80	94	80.7 - 115

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

Param	F	C	LCSD			Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	5	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379497

QC Batch: 117298
Prep Batch: 99168

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2014-11-12

Standard (CCV-2)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.90	98	90 - 110	2014-11-12

Standard (CCV-3)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.8	99	90 - 110	2014-11-12

Standard (CCV-3)

QC Batch: 117154

Date Analyzed: 2014-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.97	99	90 - 110	2014-11-12

Standard (ICV-1)

QC Batch: 117298

Date Analyzed: 2014-11-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-11-18

Standard (CCV-1)

QC Batch: 117298

Date Analyzed: 2014-11-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-11-18

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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 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
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 (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: November 25, 2014

Work Order: 14111719



DP: 455523
 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
379829	624-Lagoon	water	2014-11-17	12:02	2014-11-17
379830	624-01	water	2014-11-17	13:50	2014-11-17

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
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2014-11-17 and assigned to work order 14111719. Samples for work order 14111719 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	99160	2014-11-17 at 18:43	117287	2014-11-17 at 18:43
NO3 (IC)	E 300.0	99160	2014-11-17 at 18:43	117287	2014-11-17 at 18:43
TDS	SM 2540C	99162	2014-11-18 at 14:16	117290	2014-11-18 at 14:16
TKN	SM 4500-NH3 B,C	99362	2014-11-25 at 09:30	117525	2014-11-25 at 13:00

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14111719 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: 379829 - 624-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1,4,5	3030	3030	<0.680	mg/L	100	0.680	2.5	0.0068

Sample: 379829 - 624-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	5.30	5.30	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379829 - 624-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117290 Date Analyzed: 2014-11-18 Analyzed By: MC
 Prep Batch: 99162 Sample Preparation: 2014-11-18 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	13600	13600	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379829 - 624-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
 Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,8	126	126	<1.80	mg/L	1	1.80	10	1.8

Sample: 379830 - 624-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1,4,5	790	790	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379830 - 624-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	11.2	11.2	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379830 - 624-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117290 Date Analyzed: 2014-11-18 Analyzed By: MC
 Prep Batch: 99162 Sample Preparation: 2014-11-18 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2620	2620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379830 - 624-01

Report Date: November 25, 2014

Work Order: 14111719
Dominguez Dairy #1

Page Number: 6 of 18
13950 Stern Dr., Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117290
Prep Batch: 99162Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117525
Prep Batch: 99362Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: CF
Prepared By: CF

Report Date: November 25, 2014

Work Order: 14111719
Dominguez Dairy #1

Page Number: 8 of 18
13950 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379830

QC Batch: 117290
 Prep Batch: 99162

Date Analyzed: 2014-11-18
 QC Preparation: 2014-11-18

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2620	2620	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.9	mg/L	1	25.0	<0.00680	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.8	mg/L	1	25.0	<0.00680	99	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.92	mg/L	1	5.00	<0.0251	98	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117290
Prep Batch: 99162Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	998	mg/L	1	1000	<2.50	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: 117525
Prep Batch: 99362

Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	0	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379826QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride	Qs	1,4,5	2110	mg/L	55.6	1390	375	125	80 - 120

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

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride	Qs	1,4,5	2080	mg/L	55.6	1390	375	123	80 - 120	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: 379826QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1,4,5	304	mg/L	55.6	278	20.2	102	80 - 120

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

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,5	299	mg/L	55.6	278	20.2	100	80 - 120	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: 379921QC Batch: 117525
Prep Batch: 99362Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: CF
Prepared By: CF

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,6,8	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2014-11-17

Standard (CCV-2)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.06	101	90 - 110	2014-11-17

Standard (CCV-3)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-17

Standard (CCV-3)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.10	102	90 - 110	2014-11-17

Standard (CCV-4)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.6	102	90 - 110	2014-11-17

Standard (CCV-4)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.13	103	90 - 110	2014-11-17

Standard (ICV-1)

QC Batch: 117525

Date Analyzed: 2014-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,8	mg/L	5.00	4.34	87	85 - 115	2014-11-25

Standard (CCV-1)

QC Batch: 117525

Date Analyzed: 2014-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,8	mg/L	5.00	4.48	90	85 - 115	2014-11-25

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7	NELAP	T104704392-14-8	Midland
8		2014-018	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.

F Description

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 Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
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5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(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: November 25, 2014

Work Order: 14111827



DP: 455523
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
379921	624-02	water	2014-11-18	10:12	2014-11-18

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 17 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
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2014-11-18 and assigned to work order 14111827. Samples for work order 14111827 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	99210	2014-11-18 at 18:23	117328	2014-11-18 at 18:23
NO3 (IC)	E 300.0	99210	2014-11-18 at 18:23	117328	2014-11-18 at 18:23
TDS	SM 2540C	99224	2014-11-19 at 14:55	117347	2014-11-19 at 14:55
TKN	SM 4500-NH3 B,C	99362	2014-11-25 at 09:30	117525	2014-11-25 at 13:00

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14111827 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: 379921 - 624-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	912	912	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379921 - 624-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	15.6	15.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379921 - 624-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117347 Date Analyzed: 2014-11-19 Analyzed By: MC
 Prep Batch: 99224 Sample Preparation: 2014-11-19 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3100	3100	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379921 - 624-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
 Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117347
Prep Batch: 99224Date Analyzed: 2014-11-19
QC Preparation: 2014-11-19Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117525
Prep Batch: 99362Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: CF
Prepared By: CF

Report Date: November 25, 2014

Work Order: 14111827
Dominguez Dairy #1

Page Number: 7 of 17
13950 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379921

QC Batch: 117347
 Prep Batch: 99224

Date Analyzed: 2014-11-19
 QC Preparation: 2014-11-19

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3080	3100	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.5	mg/L	1	25.0	<0.00680	102	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.6	mg/L	1	25.0	<0.00680	102	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.04	mg/L	1	5.00	<0.0251	101	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.06	mg/L	1	5.00	<0.0251	101	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117347
Prep Batch: 99224Date Analyzed: 2014-11-19
QC Preparation: 2014-11-19Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	997	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	999	mg/L	1	1000	<2.50	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: 117525
Prep Batch: 99362

Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	42.7	mg/L	1	50.0	<1.80	85	80.7 - 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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	0	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379914

QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1540	mg/L	55.6	1390	117	102	80 - 120

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		1,4,6	1540	mg/L	55.6	1390	117	102	80 - 120	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: 379914

QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	332	mg/L	55.6	278	47.3	102	80 - 120

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		1,4,6	331	mg/L	55.6	278	47.3	102	80 - 120	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: 379921

QC Batch: 117525
Prep Batch: 99362Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.5	102	90 - 110	2014-11-18

Standard (CCV-2)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.13	103	90 - 110	2014-11-18

Standard (CCV-3)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.7	103	90 - 110	2014-11-18

Standard (CCV-3)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.16	103	90 - 110	2014-11-18

Standard (CCV-4)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.8	103	90 - 110	2014-11-18

Standard (CCV-4)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.18	104	90 - 110	2014-11-18

Standard (ICV-1)

QC Batch: 117525

Date Analyzed: 2014-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.34	87	85 - 115	2014-11-25

Standard (CCV-1)

QC Batch: 117525

Date Analyzed: 2014-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2014-11-25

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2014-018	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.

F	Description
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 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 Petroleum & Environmental Phone #: 915-859-8150

Address: 1221 Tower Trail Ln, El Paso, TX, 79907 Fax #:

Contact Person: VICTOR AVILA E-mail: Vygalan@impump.com

Invoice to: P.O. Box 21, Mesquite, NM, 88048 575-649-7040

Project #: 455523 Project Name: DOMINAZ A

Project Location (including state): 13600 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
37992	624-02	1	250	X				X				X		11-10	10:12
1-2	624-02	1	250	X					X			X			↓

ANALYSIS REQUEST (Circle or Specify Method No.)

<input checked="" type="checkbox"/>	MTBE 8021 / 602 / 8260 / 624
<input type="checkbox"/>	BTEX 8021 / 602 / 8260 / 624
<input type="checkbox"/>	TPH 418.1 / TX1005 / TX1005 Ext(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, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity
<input type="checkbox"/>	Na, Ca, Mg, K, TDS, EC
<input checked="" type="checkbox"/>	NITRATE EPA 300.0
<input checked="" type="checkbox"/>	TKN SM 4500 NORG C
<input checked="" type="checkbox"/>	CHLORIDE EPA 300.0
<input checked="" type="checkbox"/>	TDS SM 2510 C MOD

Turn Around Time if different from standard

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST:	OBS:	COR:
[Signature]	D&H	11-10-14	15:10	MRC TRAP		11-18-14	13:10	2	2	2
MRC TRAP		11-18-14	16:30	[Signature]		11/14	8:15	1R	4.1	4.0

REMARKS: on file

LAB USE ONLY
inlab Y/N
Headspace Y/N/NA
Log-In-Review 11-18-14

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

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

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Carrier # Carry In 1521503797



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: November 25, 2014

Work Order: 14111826



Project Location: 13600 Stern Dr. Mesquite, NM
 Project Name: Dominguez Dairy #2
 Project Number: 455524

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
379912	42- 02	Water	2014-11-18	10:37	2014-11-18
379913	42- 06	Water	2014-11-18	11:20	2014-11-18
379914	42- 08	Water	2014-11-18	11:04	2014-11-18
379915	42- 09	Water	2014-11-18	11:55	2014-11-18
379916	42- 13	Water	2014-11-18	12:26	2014-11-18

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 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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2014-11-18 and assigned to work order 14111826. Samples for work order 14111826 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	99210	2014-11-18 at 18:23	117328	2014-11-18 at 18:23
NO3 (IC)	E 300.0	99210	2014-11-18 at 18:23	117328	2014-11-18 at 18:23
TDS	SM 2540C	99224	2014-11-19 at 14:55	117347	2014-11-19 at 14:55
TKN	SM 4500-NH3 B,C	99362	2014-11-25 at 09:30	117525	2014-11-25 at 13:00

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14111826 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: 379912 - 42- 02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	461	461	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379912 - 42- 02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	8.21	8.21	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379912 - 42- 02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117347 Date Analyzed: 2014-11-19 Analyzed By: MC
 Prep Batch: 99224 Sample Preparation: 2014-11-19 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2400	2400	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379912 - 42- 02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
 Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379913 - 42- 06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	302	302	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 379913 - 42- 06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	94.6	94.6	<1.26	mg/L	50	1.26	0.5	0.0251

Sample: 379913 - 42- 06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117347 Date Analyzed: 2014-11-19 Analyzed By: MC
 Prep Batch: 99224 Sample Preparation: 2014-11-19 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2160	2160	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379913 - 42- 06

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455524

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Dominguez Dairy #2

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Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379914 - 42- 08

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	117	117	<0.0340	mg/L	5	0.0340	2.5	0.0068

Sample: 379914 - 42- 08

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	47.3	47.3	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 379914 - 42- 08

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 117347 Date Analyzed: 2014-11-19 Analyzed By: MC
Prep Batch: 99224 Sample Preparation: 2014-11-19 Prepared By: MC

continued . . .

sample 379914 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	1440	1440	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379914 - 42- 08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
 Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379915 - 42- 09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	722	722	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379915 - 42- 09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	46.4	46.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379915 - 42- 09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117347 Date Analyzed: 2014-11-19 Analyzed By: MC
 Prep Batch: 99224 Sample Preparation: 2014-11-19 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	3000	3000	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379915 - 42- 09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
 Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379916 - 42- 13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	855	855	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379916 - 42- 13

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Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	54.6	54.6	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 379916 - 42- 13

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 117347 Date Analyzed: 2014-11-19 Analyzed By: MC
Prep Batch: 99224 Sample Preparation: 2014-11-19 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3360	3360	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379916 - 42- 13

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117525 Date Analyzed: 2014-11-25 Analyzed By: CF
Prep Batch: 99362 Sample Preparation: 2014-11-25 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117328
Prep Batch: 99210

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117328
Prep Batch: 99210

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117347
Prep Batch: 99224

Date Analyzed: 2014-11-19
QC Preparation: 2014-11-19

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117525
Prep Batch: 99362

Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25

Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379921

QC Batch: 117347
Prep Batch: 99224

Date Analyzed: 2014-11-19
QC Preparation: 2014-11-19

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3080	3100	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117328
Prep Batch: 99210

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.5	mg/L	1	25.0	<0.00680	102	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.6	mg/L	1	25.0	<0.00680	102	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117328
Prep Batch: 99210

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.04	mg/L	1	5.00	<0.0251	101	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.06	mg/L	1	5.00	<0.0251	101	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117347
Prep Batch: 99224

Date Analyzed: 2014-11-19
QC Preparation: 2014-11-19

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	997	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	999	mg/L	1	1000	<2.50	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: 117525
Prep Batch: 99362

Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	0	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379914

QC Batch: 117328
Prep Batch: 99210

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1540	mg/L	55.6	1390	117	102	80 - 120

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		1,4,6	1540	mg/L	55.6	1390	117	102	80 - 120	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: 379914

QC Batch: 117328
Prep Batch: 99210

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	332	mg/L	55.6	278	47.3	102	80 - 120

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		1,4,6	331	mg/L	55.6	278	47.3	102	80 - 120	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: 379921

QC Batch: 117525
Prep Batch: 99362

Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120	2	20

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

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

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.

14111826

6701 Aberdeen, Ste. 9
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

TraceAnalysis, Inc.

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

LAB Order ID # _____

Project Name: **Isaac Dominguez 575-649-7040**

Project #: **455524**

Project Location (including state): **Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048**

Dominguez Dairy #2, 13600 Stern Drive, Mesquite, 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	DATE	TIME
379911	I	42-LAGOON	1	250	X				X						11-18-14	12:10
379912	I	42-LAGOON	1	250	X				X						12:10	12:10
379913	I	42-02	1		X				X						10:37	10:37
379914	I	42-06	1		X				X						11:20	11:20
379915	I	42-08	1		X				X						11:04	11:04
379916	I	42-13	1		X				X						11:55	11:55
		42-13	1		X				X						12:26	12:26

Sampler Signature: *[Signature]*

Received By: *[Signature]* Date: 11-18-14 Time: 13:10

Relinquished By: *[Signature]* Date: 11-18-14 Time: 16:30

Received at Laboratory By: *[Signature]* Date: 11-18-14 Time: 8:05

Relinquished By: *[Signature]* Date: 11-18-14 Time: 16:30

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 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Method	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
								X	X	X	X

Turn Around Time

Hold

Remarks: *On Ice Per Cust Req. Long In Sample 92-lagoon (12) Dry Weight Basis Required TRRP Report Required*

152503797



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: November 25, 2014

Work Order: 14111718



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
379824	70-02	water	2014-11-17	11:23	2014-11-17
379825	70-01	water	2014-11-17	09:52	2014-11-17
379826	70-04	water	2014-11-17	10:21	2014-11-17
379827	70 Lagoon	water	2014-11-17	10:50	2014-11-17
379828	North Stormwater Lagoon	water	2014-11-17	10:35	2014-11-17

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

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

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Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-11-17 and assigned to work order 14111718. Samples for work order 14111718 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	99160	2014-11-17 at 18:43	117287	2014-11-17 at 18:43
NO3 (IC)	E 300.0	99160	2014-11-17 at 18:43	117287	2014-11-17 at 18:43
SO4 (IC)	E 300.0	99160	2014-11-17 at 18:43	117287	2014-11-17 at 18:43
Sulfide	SM 4500-S2 D	99364	2014-11-24 at 15:30	117527	2014-11-24 at 16:10
TDS	SM 2540C	99162	2014-11-18 at 14:16	117290	2014-11-18 at 14:16
TKN	SM 4500-NH3 B,C	99287	2014-11-21 at 10:30	117432	2014-11-21 at 13:40
TKN	SM 4500-NH3 B,C	99362	2014-11-25 at 09:30	117525	2014-11-25 at 13:00

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14111718 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: 379824 - 70-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1,4,6	793	793	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379824 - 70-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	37.4	37.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379824 - 70-02

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate	Qs	1,4,6	482	482	<0.106	mg/L	10	0.106	2.5	0.0106

Sample: 379824 - 70-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117290 Date Analyzed: 2014-11-18 Analyzed By: MC
 Prep Batch: 99162 Sample Preparation: 2014-11-18 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3180	3180	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379824 - 70-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117432 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99287 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379825 - 70-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1,4,6	621	621	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379825 - 70-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	22.0	22.0	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379825 - 70-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate	Qs	1,4,6	491	491	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 379825 - 70-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117290 Date Analyzed: 2014-11-18 Analyzed By: MC
 Prep Batch: 99162 Sample Preparation: 2014-11-18 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2620	2620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379825 - 70-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117432 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99287 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379826 - 70-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

continued ...

sample 379826 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs	1,4,6	375	375	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379826 - 70-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 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	1,4,6	20.2	<25.0	<1.26	mg/L	50	1.26	0.5	0.0251

Sample: 379826 - 70-04

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	1,4,6	300	300	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 379826 - 70-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117290 Date Analyzed: 2014-11-18 Analyzed By: MC
 Prep Batch: 99162 Sample Preparation: 2014-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2720	2720	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379826 - 70-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117432 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99287 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379827 - 70 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1,4,6	963	963	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379827 - 70 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 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	1,4,6	<0.251	<5.00	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 379827 - 70 Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate	Qs	1,4,6	304	304	<0.106	mg/L	10	0.106	2.5	0.0106

Sample: 379827 - 70 Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 117527 Date Analyzed: 2014-11-24 Analyzed By: CF
 Prep Batch: 99364 Sample Preparation: 2014-11-24 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfide	Qs	2	0.393	0.393	<0.0117	mg/L	1	0.0117	0.1	0.0117

Sample: 379827 - 70 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117290 Date Analyzed: 2014-11-18 Analyzed By: MC
 Prep Batch: 99162 Sample Preparation: 2014-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	6300	6300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379827 - 70 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117432 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99287 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	275	275	<1.80	mg/L	1	1.80	10	1.8

Sample: 379828 - North Stormwater Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	Qs	1,4,6	1450	1450	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379828 - North Stormwater Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 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	1,4,6	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379828 - North Stormwater Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117287 Date Analyzed: 2014-11-17 Analyzed By: JR
 Prep Batch: 99160 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate	Qs	1,4,6	257	257	<0.106	mg/L	10	0.106	2.5	0.0106

Sample: 379828 - North Stormwater Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 117527 Date Analyzed: 2014-11-24 Analyzed By: CF
 Prep Batch: 99364 Sample Preparation: 2014-11-24 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfide	Qs,U	2	<0.0117	<0.100	<0.0117	mg/L	1	0.0117	0.1	0.0117

Sample: 379828 - North Stormwater Lagoon

Laboratory:	El Paso	Analytical Method:	SM 2540C	Prep Method:	N/A
Analysis:	TDS	Date Analyzed:	2014-11-18	Analyzed By:	MC
QC Batch:	117290	Sample Preparation:	2014-11-18	Prepared By:	MC
Prep Batch:	99162				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	6660	6660	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379828 - North Stormwater Lagoon

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-11-25	Analyzed By:	CF
QC Batch:	117525	Sample Preparation:	2014-11-25	Prepared By:	CF
Prep Batch:	99362				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	28.0	28.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0106	mg/L	0.0106

Method Blank (1)

QC Batch: 117290
Prep Batch: 99162Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 117432
Prep Batch: 99287Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 117525
Prep Batch: 99362Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 117527
Prep Batch: 99364Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Sulfide		2	<0.0117	mg/L	0.0117

Duplicates

Duplicate (1) Duplicated Sample: 379830

QC Batch: 117290
 Prep Batch: 99162

Date Analyzed: 2014-11-18
 QC Preparation: 2014-11-18

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2620	2620	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.9	mg/L	1	25.0	<0.00680	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	24.8	mg/L	1	25.0	<0.00680	99	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.93	mg/L	1	5.00	<0.0251	99	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.92	mg/L	1	5.00	<0.0251	98	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117287
Prep Batch: 99160Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	24.9	mg/L	1	25.0	<0.0106	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
Total Kjeldahl Nitrogen - N		2,3,7,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117527
Prep Batch: 99364

Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide		2	0.415	mg/L	1	0.400	<0.0117	104	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfide		2	0.386	mg/L	1	0.400	<0.0117	96	85 - 115	7	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379826QC Batch: 117432
Prep Batch: 99287Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120	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: 379921QC Batch: 117525
Prep Batch: 99362Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120	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: 379827QC Batch: 117527
Prep Batch: 99364Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide		Qs 2	0.586	mg/L	1	0.400	0.393	48	80 - 120

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
Sulfide	qs	2	0.594	mg/L	1	0.400	0.393	50	80 - 120	1	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: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.9	100	90 - 110	2014-11-17

Standard (CCV-1)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.01	100	90 - 110	2014-11-17

Standard (CCV-1)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	24.9	100	90 - 110	2014-11-17

Standard (CCV-2)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.2	101	90 - 110	2014-11-17

Standard (CCV-2)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.06	101	90 - 110	2014-11-17

Standard (CCV-2)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.2	101	90 - 110	2014-11-17

Standard (CCV-3)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.4	102	90 - 110	2014-11-17

Standard (CCV-3)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.10	102	90 - 110	2014-11-17

Standard (CCV-3)

QC Batch: 117287

Date Analyzed: 2014-11-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.4	102	90 - 110	2014-11-17

Standard (ICV-1)

QC Batch: 117432

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-11-21

Standard (CCV-1)

QC Batch: 117432

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.62	92	85 - 115	2014-11-21

Standard (ICV-1)

QC Batch: 117525

Date Analyzed: 2014-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-11-25

Standard (CCV-1)

QC Batch: 117525

Date Analyzed: 2014-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-11-25

Standard (ICV-1)

QC Batch: 117527

Date Analyzed: 2014-11-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.384	96	85 - 115	2014-11-24

Standard (CCV-1)

QC Batch: 117527

Date Analyzed: 2014-11-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.417	104	85 - 115	2014-11-24

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0300	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



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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: December 3, 2014

Work Order: 14111427



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
379650	70-03	water	2014-11-14	11:36	2014-11-14

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 17 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
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-11-14 and assigned to work order 14111427. Samples for work order 14111427 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	99210	2014-11-18 at 18:23	117328	2014-11-18 at 18:23
NO3 (IC)	E 300.0	99143	2014-11-14 at 17:54	117271	2014-11-14 at 17:54
SO4 (IC)	E 300.0	99143	2014-11-14 at 17:54	117271	2014-11-14 at 17:54
TDS	SM 2540C	99161	2014-11-17 at 14:15	117289	2014-11-17 at 14:15
TKN	SM 4500-NH3 B,C	99284	2014-11-21 at 10:30	117427	2014-11-21 at 13:40

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 14111427 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: 379650 - 70-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117328 Date Analyzed: 2014-11-18 Analyzed By: JR
 Prep Batch: 99210 Sample Preparation: 2014-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	2530	2530	<0.680	mg/L	100	0.680	2.5	0.0068

Sample: 379650 - 70-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	49.1	49.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379650 - 70-03

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,6	1380	1380	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 379650 - 70-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,6	6360	6360	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379650 - 70-03

Laboratory: Lubbock

Analysis: TKN

QC Batch: 117427

Prep Batch: 99284

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-11-21

Sample Preparation: 2014-11-21

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0106	mg/L	0.0106

Method Blank (1)

QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Report Date: December 3, 2014

Work Order: 14111427
Mountain View Dairy

Page Number: 7 of 17
13090 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379549

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3320	3260	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117271
Prep Batch: 99143

Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.79	mg/L	1	5.00	<0.0251	96	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.78	mg/L	1	5.00	<0.0251	96	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117271
Prep Batch: 99143

Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	24.2	mg/L	1	25.0	<0.0106	97	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		1,4,6	24.2	mg/L	1	25.0	<0.0106	97	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	1000	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	998	mg/L	1	1000	<2.50	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: 117328
Prep Batch: 99210

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.5	mg/L	1	25.0	<0.00680	102	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.6	mg/L	1	25.0	<0.00680	102	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	Rec.	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379655QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	298	mg/L	55.6	278	16.3	101	80 - 120

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		1,4,6	286	mg/L	55.6	278	16.3	97	80 - 120	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: 379655QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	1980	mg/L	55.6	1390	523	105	80 - 120

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		1,4,6	1920	mg/L	55.6	1390	523	100	80 - 120	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: 379914QC Batch: 117328
Prep Batch: 99210Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1540	mg/L	55.6	1390	117	102	80 - 120

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.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	1540	mg/L	55.6	1390	117	102	80 - 120	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: 379656

QC Batch: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.03	101	90 - 110	2014-11-14

Standard (CCV-1)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.1	100	90 - 110	2014-11-14

Standard (CCV-2)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.08	102	90 - 110	2014-11-14

Standard (CCV-2)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.4	102	90 - 110	2014-11-14

Standard (CCV-1)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.4	102	90 - 110	2014-11-18

Standard (CCV-2)

QC Batch: 117328

Date Analyzed: 2014-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.5	102	90 - 110	2014-11-18

Standard (ICV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-11-21

Standard (CCV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-11-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

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.

1411427 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 #: **vayala@dhpump.com**
 Fax #: **915-859-8150**
 E-mail: **vayala@dhpump.com**

Project Name: **John DeRuyter 575-233-3899**
 Project #: **Mountain View Dairy**
 Project Location (including state): **Mountain View Dairy, 13090 Stern Drive, Mesquite, NM**
 Sampler Signature: *John DeRuyter*

LAB #	Field Code	Volume/Amount	# Containers	MATRIX				PRESERVATIVE METHOD				SAMPLING								
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME					
70-01		1	1	X				X				X								
70-01		1	1	X				X				X								
70-02		1	1	X				X				X								
70-02		1	1	X				X				X								
379650-1	70-03	1	1	X				X				X			11-14-14	11:36				
↓ -2	70-03	1	1	X				X				X			11-14-14	11:36				
70-04		1	1	X				X				X								
70-04		1	1	X				X				X								
70 Lagoon		1	1	X				X				X								
70 Lagoon		1	1	X				X				X								
70 Lagoon		1	1	X				X				X								
North Stormwater Lagoon		1	1	X				X				X								
North Stormwater Lagoon		1	1	X				X				X								
North Stormwater Lagoon		1	1	X				X				X								

Relinquished By: *John DeRuyter* Date: **11-14-14** Time: **12:15**
 Received By: *[Signature]* Date: **11-14-14** Time: **12:15**
 Relinquished By: *[Signature]* Date: **11-14-14** Time: **16:30**
 Received at Laboratory By: *[Signature]* Date: **11-15-14** Time: **9:10/1.8**

Page **1** of **1**
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # **14111427**

ANALYSIS REQUEST	
MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Phosphorus SM 4500	
Nitrates EPA 300	
Total Kjeldhal Nitrogen SM 4500 NORG C	
Chloride EPA 300.0	
Total Dissolved Solids SM 2540 C MOD	
Sulfate EPA Method 300.0	
Total Sulfur	
Turn Around Time	
Hold	

Remarks: **Lab Use Only**
 Intact / N
 Headspace Y / N
 Temp **21.2** / **20.8**
 Log-in Review **PH**
 Dry Weight Basis Required
 HPLC Report Required
15049170857
Carry On



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
 Organ Dairy LLC

Report Date: December 3, 2014

P.O. Box 130
 Mesilla Park, NM, 88047

Work Order: 14111333



DP: 455527
 Project Location: 12560 Stern Dr., Mesquite, NM
 Project Name: Organ 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
379550	126-09	water	2014-11-13	09:01	2014-11-13
379551	126-12	water	2014-11-13	10:14	2014-11-13

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 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
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Organ Dairy were received by TraceAnalysis, Inc. on 2014-11-13 and assigned to work order 14111333. Samples for work order 14111333 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	99106	2014-11-13 at 21:27	117220	2014-11-13 at 21:27
NO3 (IC)	E 300.0	99106	2014-11-13 at 21:27	117220	2014-11-13 at 21:27
TDS	SM 2540C	99161	2014-11-17 at 14:15	117289	2014-11-17 at 14:15
TKN	SM 4500-NH3 B,C	99284	2014-11-21 at 10:30	117427	2014-11-21 at 13:40

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 14111333 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: 379550 - 126-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	842	842	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379550 - 126-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,5	2.42	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379550 - 126-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2500	2500	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379550 - 126-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117427 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99284 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379551 - 126-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	409	409	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 379551 - 126-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	2.57	2.57	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379551 - 126-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2160	2160	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379551 - 126-12

Report Date: December 3, 2014

Work Order: 14111333
Organ Dairy

Page Number: 6 of 18
12560 Stern Dr., Mesquite, NM

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-11-21	Analyzed By:	CF
QC Batch:	117427	Sample Preparation:	2014-11-21	Prepared By:	CF
Prep Batch:	99284				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	2.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,5	1.37	mg/L	0.0068

Method Blank (1)

QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117427
Prep Batch: 99284Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Report Date: December 3, 2014

Work Order: 14111333
Organ Dairy

Page Number: 8 of 18
12560 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379549

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3320	3260	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117220
Prep Batch: 99106

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	26.1	mg/L	1	25.0	<0.00680	104	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	26.2	mg/L	1	25.0	<0.00680	105	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117220
Prep Batch: 99106

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.16	mg/L	1	5.00	<0.0251	103	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	5.18	mg/L	1	5.00	<0.0251	104	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	1000	mg/L	1	1000	<2.50	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		1,4,5	998	mg/L	1	1000	<2.50	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: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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 Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379547QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	1970	mg/L	55.6	1390	486	107	80 - 120

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		1,4,5	1970	mg/L	55.6	1390	486	107	80 - 120	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: 379547QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	288	mg/L	55.6	278	<1.40	104	80 - 120

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		1,4,5	287	mg/L	55.6	278	<1.40	103	80 - 120	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: 379656QC Batch: 117427
Prep Batch: 99284Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2014-11-13

Standard (CCV-2)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.02	100	90 - 110	2014-11-13

Standard (CCV-3)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2014-11-13

Standard (CCV-3)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.05	101	90 - 110	2014-11-13

Standard (ICV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-11-21

Standard (CCV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-11-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

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):

Organ Dairy (Former Del Norte), P.O. Box 130, Mesilla Park, NM 877

Project #: 455527

Project Name: Organ Dairy

Sampler Signature: *JWG*

Project Location (including state):

Organ Dairy, 12560 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
82950-1	126-09	1	250	X				X		X			11-13-14	9:01
↓-2	126-09	1	250	X				X		X				9:01
55-1	126-12	1	250	X				X		X				10:14
↓-2	126-12	1	250	X				X		X				10:14
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				
		1		X				X		X				

Relinquished By: *JWG* Date: 11-13-14 Time: 14:10

Received By: *[Signature]* Date: 11-13-14 Time: 14:10

Relinquished By: *[Signature]* Date: 11-14-14 Time: 8:00

Received at Laboratory By: *[Signature]* Date: 11-13-14 Time: 14:10

Page 1 of 1
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 1411333

ANALYSIS REQUEST

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

Remarks: *RS 49170856*

Lab Use Only
 Intact Y N
 Headspace Y N Y
 Temp *80.0 C*
 Log-in Review *pat*

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 Farmes
14310 Stern Drive
P.O. Box 199
Mesquite, NM, 88048

Report Date: December 3, 2014

Work Order: 14111332



DP: 455526
Project Location: 14310 Stern Dr., Mesquite, NM
Project Name: Gonzalez Farmes

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
379546	177-01	water	2014-11-13	14:15	2014-11-13
379547	177-03	water	2014-11-13	12:13	2014-11-13
379548	177-04	water	2014-11-13	13:34	2014-11-13
379549	177-05	water	2014-11-13	11:42	2014-11-13

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 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-11-13 and assigned to work order 14111332. Samples for work order 14111332 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	99089	2014-11-13 at 18:00	117207	2014-11-13 at 18:00
Chloride (IC)	E 300.0	99106	2014-11-13 at 21:27	117220	2014-11-13 at 21:27
NO3 (IC)	E 300.0	99089	2014-11-13 at 18:00	117207	2014-11-13 at 18:00
NO3 (IC)	E 300.0	99106	2014-11-13 at 21:27	117220	2014-11-13 at 21:27
TDS	SM 2540C	99161	2014-11-17 at 14:15	117289	2014-11-17 at 14:15
TKN	SM 4500-NH3 B,C	99169	2014-11-18 at 10:15	117300	2014-11-18 at 14:40
TKN	SM 4500-NH3 B,C	99284	2014-11-21 at 10:30	117427	2014-11-21 at 13:40

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 14111332 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: 379546 - 177-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117207 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99089 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	1330	1330	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379546 - 177-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117207 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99089 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	34.6	34.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379546 - 177-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3780	3780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379546 - 177-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117300 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99169 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379547 - 177-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	486	486	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 379547 - 177-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,6	0.993	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379547 - 177-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	1780	1780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379547 - 177-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117300 Date Analyzed: 2014-11-18 Analyzed By: CF
 Prep Batch: 99169 Sample Preparation: 2014-11-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379548 - 177-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	1190	1190	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379548 - 177-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	22.5	22.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379548 - 177-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

continued . . .

sample 379548 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	3680	3680	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379548 - 177-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117427 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99284 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379549 - 177-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,4,6	1110	1110	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379549 - 177-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117220 Date Analyzed: 2014-11-13 Analyzed By: JR
 Prep Batch: 99106 Sample Preparation: 2014-11-13 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	56.1	56.1	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 379549 - 177-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	3260	3260	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379549 - 177-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117427 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99284 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117207
Prep Batch: 99089Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117207
Prep Batch: 99089Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,6	1.37	mg/L	0.0068

Method Blank (1)

QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 117300
Prep Batch: 99169Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 117427
Prep Batch: 99284Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379549

QC Batch: 117289
 Prep Batch: 99161

Date Analyzed: 2014-11-17
 QC Preparation: 2014-11-17

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3320	3260	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117207
Prep Batch: 99089Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.7	mg/L	1	25.0	<0.00680	103	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.7	mg/L	1	25.0	<0.00680	103	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117207
Prep Batch: 99089Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.15	mg/L	1	5.00	<0.0251	103	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.14	mg/L	1	5.00	<0.0251	103	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	26.1	mg/L	1	25.0	<0.00680	104	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
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379546QC Batch: 117207
Prep Batch: 99089Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	3100	mg/L	62.5	1560	1330	113	80 - 120

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		1,4,6	3100	mg/L	62.5	1560	1330	113	80 - 120	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: 379546QC Batch: 117207
Prep Batch: 99089Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	355	mg/L	62.5	312	34.6	103	80 - 120

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		1,4,6	355	mg/L	62.5	312	34.6	103	80 - 120	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: 379547QC Batch: 117220
Prep Batch: 99106Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	1970	mg/L	55.6	1390	486	107	80 - 120

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		1,4,6	1970	mg/L	55.6	1390	486	107	80 - 120	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: 379547

QC Batch: 117220
Prep Batch: 99106

Date Analyzed: 2014-11-13
QC Preparation: 2014-11-13

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	288	mg/L	55.6	278	<1.40	104	80 - 120

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		1,4,6	287	mg/L	55.6	278	<1.40	103	80 - 120	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: 379499

QC Batch: 117300
Prep Batch: 99169

Date Analyzed: 2014-11-18
QC Preparation: 2014-11-18

Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

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		2,3,7,8	46.2	mg/L	1	50.0	<1.80	92	72.1 - 120	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: 379656

QC Batch: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117207

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.6	98	90 - 110	2014-11-13

Standard (CCV-1)

QC Batch: 117207

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.93	99	90 - 110	2014-11-13

Standard (CCV-2)

QC Batch: 117207

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.9	100	90 - 110	2014-11-13

Standard (CCV-2)

QC Batch: 117207

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.99	100	90 - 110	2014-11-13

Standard (CCV-1)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.9	100	90 - 110	2014-11-13

Standard (CCV-1)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.99	100	90 - 110	2014-11-13

Standard (CCV-2)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.1	100	90 - 110	2014-11-13

Standard (CCV-2)

QC Batch: 117220

Date Analyzed: 2014-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.02	100	90 - 110	2014-11-13

Standard (ICV-1)

QC Batch: 117300

Date Analyzed: 2014-11-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-11-18

Standard (CCV-1)

QC Batch: 117300

Date Analyzed: 2014-11-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-11-18

Standard (ICV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-11-21

Standard (CCV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-11-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

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 #: 455526
Project Name: Joe Gonzalez 575-233-4801
Gonzalez Dairy Inc.
Sampler Signature: *JWS*

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
177-01		1	250	X				X	X	X	X	X	11-13-14	14:15
177-01		1		X				X	X	X	X	X	11-13-14	14:15
177-03		1		X				X	X	X	X	X	12:13	12:13
177-03		1		X				X	X	X	X	X	12:13	12:13
177-04		1		X				X	X	X	X	X	13:34	13:34
177-04		1		X				X	X	X	X	X	13:34	13:34
177-05		1		X				X	X	X	X	X	11:42	11:42
177-05		1		X				X	X	X	X	X	11:42	11:42

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	
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

Lab Use Only

Intact Y / N

Headspace Y / N

Temp D / O

Log-in Review *W*

Remarks:

Relinquished By: *JWS* Date: 11-13-14 Time: 14:40

Relinquished By: *BC* Date: 11-14-14 Time: 8:00

Received By: *JWS* Date: 11-13-14 Time: 14:10

Received at Laboratory By: *BC* Date: 11-14-14 Time: 8:00

Dry Weight Basis Required

TRRP Report Required

Carry-Over 11/13/14 12:59 49170856



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 Farmes
14310 Stern Drive
P.O. Box 199
Mesquite, NM, 88048

Report Date: December 3, 2014

Work Order: 14111430



DP: 455526
Project Location: 14310 Stern Dr., Mesquite, NM
Project Name: Gonzalez Farmes

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
379655	177-02	water	2014-11-14	09:35	2014-11-14
379656	177-07	water	2014-11-14	10:39	2014-11-14

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 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
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-11-14 and assigned to work order 14111430. Samples for work order 14111430 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	99143	2014-11-14 at 17:54	117271	2014-11-14 at 17:54
NO3 (IC)	E 300.0	99143	2014-11-14 at 17:54	117271	2014-11-14 at 17:54
TDS	SM 2540C	99161	2014-11-17 at 14:15	117289	2014-11-17 at 14:15
TKN	SM 4500-NH3 B,C	99284	2014-11-21 at 10:30	117427	2014-11-21 at 13:40

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 14111430 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: 379655 - 177-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	931	931	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379655 - 177-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	16.3	16.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379655 - 177-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2930	2930	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379655 - 177-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117427 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99284 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 379656 - 177-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	1070	1070	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379656 - 177-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	45.3	45.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379656 - 177-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3250	3250	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379656 - 177-07

Report Date: December 3, 2014

Work Order: 14111430
Gonzalez Farmes

Page Number: 6 of 18
14310 Stern Dr., Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117427 Date Analyzed: 2014-11-21 Analyzed By: CF
Prep Batch: 99284 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117427
Prep Batch: 99284Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Report Date: December 3, 2014

Work Order: 14111430
Gonzalez Farmes

Page Number: 8 of 18
14310 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379549

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3320	3260	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.2	mg/L	1	25.0	<0.00680	97	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	24.2	mg/L	1	25.0	<0.00680	97	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.79	mg/L	1	5.00	<0.0251	96	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.78	mg/L	1	5.00	<0.0251	96	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	1000	mg/L	1	1000	<2.50	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		1,4,6	998	mg/L	1	1000	<2.50	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: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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 Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379655QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	2480	mg/L	55.6	1390	931	111	80 - 120

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		1,4,6	2420	mg/L	55.6	1390	931	107	80 - 120	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: 379655QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	298	mg/L	55.6	278	16.3	101	80 - 120

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		1,4,6	286	mg/L	55.6	278	16.3	97	80 - 120	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: 379656QC Batch: 117427
Prep Batch: 99284Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.1	100	90 - 110	2014-11-14

Standard (CCV-1)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.03	101	90 - 110	2014-11-14

Standard (CCV-2)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.4	102	90 - 110	2014-11-14

Standard (CCV-2)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.08	102	90 - 110	2014-11-14

Standard (ICV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-11-21

Standard (CCV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-11-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

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.

14111430

6701 Aberdeen, Ste. 9
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

TraceAnalysis, Inc.

Company Name: _____ Phone #: 915-859-8150
 D&H Petroleum & Environmental Services Cell #: _____
 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):
 Gonzalez Dairy, PO Box 199, Mesquite, NM 88048 Joe Gonzalez 575-233-4801
 Project #: 455526 Project Name: Gonzalez Dairy Inc.
 Sampler Signature: *JWA*

Project Location (including state):
 Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
37965-1	177-02	1	250	X				X	X	X	X	11-14-14	9:35
↓ -2	177-02	1	250	X				X	X	X	X		9:35
37965-1	177-07	1	250	X				X	X	X	X		10:39
↓ -2	177-07	1	250	X				X	X	X	X		10:39
		1		X				X	X	X	X		
		1		X				X	X	X	X		

Page 1 of 1
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 14111430

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 NORC C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	
Hold	

Relinquished By: *JWA* Date: 11-14-14 Time: 12:15
 Received By: *[Signature]* Date: 11-14-14 Time: 12:15

Relinquished By: *[Signature]* Date: 11-14-14 Time: 1630
 Received at Laboratory By: *[Signature]* Date: 11/13/14 9:10 Time: 1:58

Lab Use Only
 Intact Y / N
 Headspace Y / N
 Temp *27.2* Y / N
 Log-in Review *DDH* Y / N

Remarks: LSO 4970857
 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: December 4, 2014

Work Order: 14112051



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
380201	167-Lagoon	water	2014-11-20	11:56	2014-11-20
380202	167-01A	water	2014-11-20	11:33	2014-11-20
380203	167-09	water	2014-11-20	12:33	2014-11-20
380204	167-05	water	2014-11-20	13:13	2014-11-20
380205	167-06	water	2014-11-20	10:42	2014-11-20
380206	167-07	water	2014-11-20	11:07	2014-11-20

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 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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-11-20 and assigned to work order 14112051. Samples for work order 14112051 were received intact at a temperature of 1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	99278	2014-11-20 at 18:07	117420	2014-11-20 at 18:07
NO3 (IC)	E 300.0	99278	2014-11-20 at 18:07	117420	2014-11-20 at 18:07
TDS	SM 2540C	99348	2014-11-24 at 14:25	117506	2014-11-24 at 14:25
TKN	SM 4500-NH3 B,C	99504	2014-12-03 at 10:30	117691	2014-12-03 at 14:10

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14112051 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: 380201 - 167-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	730	730	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380201 - 167-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 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	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380201 - 167-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3680	3680	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380201 - 167-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Report Date: December 4, 2014

Work Order: 14112051
River Valley Dairy, LLC

Page Number: 6 of 24
1400 La Chuga Rd., Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	66.5	66.5	<1.80	mg/L	1	1.80	10	1.8

Sample: 380202 - 167-01A

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	539	539	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380202 - 167-01A

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	1.65	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380202 - 167-01A

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3260	3260	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380202 - 167-01A

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N		2,3,6,7	19.6	19.6	<1.80	mg/L	1	1.80	10	1.8

Sample: 380203 - 167-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride		1,4,5	683	683	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380203 - 167-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1,4,5	6.31	6.31	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380203 - 167-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

continued . . .

sample 380203 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2830	2830	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380203 - 167-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	2.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380204 - 167-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	747	747	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380204 - 167-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	2.62	2.62	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380204 - 167-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	3360	3360	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380204 - 167-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380205 - 167-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	702	702	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380205 - 167-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	21.1	21.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380205 - 167-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2900	2900	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380205 - 167-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380206 - 167-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

continued ...

sample 380206 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	258	258	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 380206 - 167-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 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	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380206 - 167-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2300	2300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380206 - 167-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117420
Prep Batch: 99278Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117420
Prep Batch: 99278Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117506
Prep Batch: 99348Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117691
Prep Batch: 99504Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 380208

QC Batch: 117506
 Prep Batch: 99348

Date Analyzed: 2014-11-24
 QC Preparation: 2014-11-24

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2080	1890	mg/L	1	10	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117420
Prep Batch: 99278Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00680	101	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00680	101	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117420
Prep Batch: 99278Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.00	mg/L	1	5.00	<0.0251	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	5.01	mg/L	1	5.00	<0.0251	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117506
Prep Batch: 99348Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	998	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	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: 117691
Prep Batch: 99504

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380069

QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99278 QC Preparation: 2014-11-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	1760	mg/L	55.6	1390	316	104	80 - 120

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		1,4,5	1750	mg/L	55.6	1390	316	103	80 - 120	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: 380069

QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99278 QC Preparation: 2014-11-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	280	mg/L	55.6	278	<1.40	101	80 - 120

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		1,4,5	279	mg/L	55.6	278	<1.40	100	80 - 120	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: 380601

QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
Prep Batch: 99504 QC Preparation: 2014-12-03 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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.	Rec. Limit	RPD RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2014-11-20

Standard (CCV-2)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.07	101	90 - 110	2014-11-20

Standard (CCV-3)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-20

Standard (CCV-3)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.10	102	90 - 110	2014-11-20

Standard (CCV-4)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-20

Standard (CCV-4)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.12	102	90 - 110	2014-11-20

Standard (CCV-5)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-20

Standard (CCV-5)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.13	103	90 - 110	2014-11-20

Standard (ICV-1)

QC Batch: 117691

Date Analyzed: 2014-12-03

Analyzed By: CF

Report Date: December 4, 2014

Work Order: 14112051
River Valley Dairy, LLC

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1400 La Chuga Rd., Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-03

Standard (CCV-1)

QC Batch: 117691

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-03

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.



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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: December 4, 2014

Work Order: 14112052



Project Location: 16910 Stern Drive, Mesquite NM
 Project Name: Buena Vista Dairy #2
 Project Number: 455543

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
380207	74-04	water	2014-11-20	09:21	2014-11-20
380208	74-05	water	2014-11-20	10:11	2014-11-20

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 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
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-11-20 and assigned to work order 14112052. Samples for work order 14112052 were received intact at a temperature of 1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	99321	2014-11-21 at 17:38	117477	2014-11-21 at 17:38
NO3 (IC)	E 300.0	99321	2014-11-21 at 17:38	117477	2014-11-21 at 17:38
TDS	SM 2540C	99348	2014-11-24 at 14:25	117506	2014-11-24 at 14:25
TKN	SM 4500-NH3 B,C	99504	2014-12-03 at 10:30	117691	2014-12-03 at 14:10

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14112052 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: 380207 - 74-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117477 Date Analyzed: 2014-11-21 Analyzed By: JR
 Prep Batch: 99321 Sample Preparation: 2014-11-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	538	538	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380207 - 74-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117477 Date Analyzed: 2014-11-21 Analyzed By: JR
 Prep Batch: 99321 Sample Preparation: 2014-11-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B	1,4,5	14.7	14.7	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380207 - 74-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2140	2140	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380207 - 74-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380208 - 74-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117477 Date Analyzed: 2014-11-21 Analyzed By: JR
 Prep Batch: 99321 Sample Preparation: 2014-11-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	493	493	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380208 - 74-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117477 Date Analyzed: 2014-11-21 Analyzed By: JR
 Prep Batch: 99321 Sample Preparation: 2014-11-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B	1,4,5	17.3	17.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380208 - 74-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117506 Date Analyzed: 2014-11-24 Analyzed By: MC
 Prep Batch: 99348 Sample Preparation: 2014-11-24 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1890	1890	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380208 - 74-05

Report Date: December 4, 2014
455543

Work Order: 14112052
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Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117477
Prep Batch: 99321

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,5	1.35	mg/L	0.0068

Method Blank (1)

QC Batch: 117477
Prep Batch: 99321

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	B	1,4,5	0.175	mg/L	0.0251

Method Blank (1)

QC Batch: 117506
Prep Batch: 99348

Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117691
Prep Batch: 99504

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 380208

QC Batch: 117506
Prep Batch: 99348

Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2080	1890	mg/L	1	10	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117477
Prep Batch: 99321

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	25.3	mg/L	1	25.0	<0.00680	101	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00680	101	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117477
Prep Batch: 99321

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.01	mg/L	1	5.00	<0.0251	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	5.02	mg/L	1	5.00	<0.0251	100	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117506
Prep Batch: 99348

Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	998	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	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: 117691
Prep Batch: 99504

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380208

QC Batch: 117477 Date Analyzed: 2014-11-21 Analyzed By: JR
Prep Batch: 99321 QC Preparation: 2014-11-21 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	1980	mg/L	55.6	1390	493	107	80 - 120

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		1,4,5	1970	mg/L	55.6	1390	493	106	80 - 120	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: 380208

QC Batch: 117477 Date Analyzed: 2014-11-21 Analyzed By: JR
Prep Batch: 99321 QC Preparation: 2014-11-21 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	299	mg/L	55.6	278	17.3	101	80 - 120

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		1,4,5	297	mg/L	55.6	278	17.3	101	80 - 120	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: 380601

QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
Prep Batch: 99504 QC Preparation: 2014-12-03 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117477

Date Analyzed: 2014-11-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.7	99	90 - 110	2014-11-21

Standard (CCV-1)

QC Batch: 117477

Date Analyzed: 2014-11-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.99	100	90 - 110	2014-11-21

Standard (CCV-2)

QC Batch: 117477

Date Analyzed: 2014-11-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2014-11-21

Standard (CCV-2)

QC Batch: 117477

Date Analyzed: 2014-11-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.05	101	90 - 110	2014-11-21

Standard (ICV-1)

QC Batch: 117691

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-03

Standard (CCV-1)

QC Batch: 117691

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-03

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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
SQL	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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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 SQL. 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.



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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: December 4, 2014

Work Order: 14112427



DP: 455528
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
380601	167-03	water	2014-11-24	09:10	2014-11-24
380602	167-04	water	2014-11-24	09:36	2014-11-24
380603	167-08	water	2014-11-24	10:23	2014-11-24

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-11-24 and assigned to work order 14112427. Samples for work order 14112427 were received intact at a temperature of 1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	99417	2014-11-24 at 19:47	117595	2014-11-24 at 19:47
NO3 (IC)	E 300.0	99417	2014-11-24 at 19:47	117595	2014-11-24 at 19:47
TDS	SM 2540C	99406	2014-11-26 at 13:50	117579	2014-11-26 at 13:50
TKN	SM 4500-NH3 B,C	99504	2014-12-03 at 10:30	117691	2014-12-03 at 14:10
TKN	SM 4500-NH3 B,C	99505	2014-12-03 at 10:30	117694	2014-12-03 at 14:10

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14112427 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: 380601 - 167-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	529	529	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380601 - 167-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	16.2	16.2	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380601 - 167-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117579 Date Analyzed: 2014-11-26 Analyzed By: MC
 Prep Batch: 99406 Sample Preparation: 2014-11-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2080	2080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380601 - 167-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117691 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99504 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380602 - 167-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	908	908	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380602 - 167-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	29.0	29.0	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380602 - 167-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117579 Date Analyzed: 2014-11-26 Analyzed By: MC
 Prep Batch: 99406 Sample Preparation: 2014-11-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3520	3520	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380602 - 167-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117694 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99505 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380603 - 167-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	944	944	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380603 - 167-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 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	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380603 - 167-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117579 Date Analyzed: 2014-11-26 Analyzed By: MC
 Prep Batch: 99406 Sample Preparation: 2014-11-26 Prepared By: MC

continued . . .

sample 380603 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 Dissolved Solids		1,4,5	3020	3020	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380603 - 167-08

Laboratory: Lubbock
Analysis: TKN
QC Batch: 117694
Prep Batch: 99505

Analytical Method: SM 4500-NH3 B,C
Date Analyzed: 2014-12-03
Sample Preparation: 2014-12-03

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

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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117579
Prep Batch: 99406Date Analyzed: 2014-11-26
QC Preparation: 2014-11-26Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117691
Prep Batch: 99504Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: CF
Prepared By: CF

Report Date: December 4, 2014

Work Order: 14112427
River Valley Dairy, LLC

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1400 La Chuga Rd., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 117694
Prep Batch: 99505

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 380610

QC Batch: 117579
 Prep Batch: 99406

Date Analyzed: 2014-11-26
 QC Preparation: 2014-11-26

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	4270	4300	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117579
Prep Batch: 99406Date Analyzed: 2014-11-26
QC Preparation: 2014-11-26Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	1000	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	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: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	26.1	mg/L	1	25.0	<0.00680	104	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	26.2	mg/L	1	25.0	<0.00680	105	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.16	mg/L	1	5.00	<0.0251	103	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	5.17	mg/L	1	5.00	<0.0251	103	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117691
Prep Batch: 99504

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117694
Prep Batch: 99505

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380601

QC Batch: 117691
Prep Batch: 99504

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	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: 380602

QC Batch: 117694
Prep Batch: 99505

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 120	0	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-24

Standard (CCV-2)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.12	102	90 - 110	2014-11-24

Standard (CCV-3)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-24

Standard (CCV-3)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.12	102	90 - 110	2014-11-24

Standard (ICV-1)

QC Batch: 117691

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-03

Standard (CCV-1)

QC Batch: 117691

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-03

Standard (ICV-1)

QC Batch: 117694

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-03

Standard (CCV-1)

QC Batch: 117694

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-03

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.



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 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)

George Segura
 Big Sky Dairy
 17800 Stern Drive
 P.O. Box 10
 Mesquite, NM, 88048

Report Date: December 15, 2014

Work Order: 14112428



DP: 455538
 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
380608	833-Lagoon	water	2014-11-24	12:44	2014-11-24
380609	833-05	water	2014-11-24	13:22	2014-11-24
380610	833-07	water	2014-11-24	12:08	2014-11-24
380611	833-08	water	2014-11-24	11:26	2014-11-24

Report Corrections (Work Order 14112428)

- 12/15/14: Corrected Field Code on sample 380610.

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-11-24 and assigned to work order 14112428. Samples for work order 14112428 were received intact at a temperature of 1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	99417	2014-11-24 at 19:47	117595	2014-11-24 at 19:47
NO3 (IC)	E 300.0	99417	2014-11-24 at 19:47	117595	2014-11-24 at 19:47
TDS	SM 2540C	99406	2014-11-26 at 13:50	117579	2014-11-26 at 13:50
TKN	SM 4500-NH3 B,C	99505	2014-12-03 at 10:30	117694	2014-12-03 at 14:10
TKN	SM 4500-NH3 B,C	99532	2014-12-04 at 09:30	117722	2014-12-04 at 13:00

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14112428 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: 380608 - 833-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	777	777	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380608 - 833-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	3.48	3.48	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380608 - 833-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117579 Date Analyzed: 2014-11-26 Analyzed By: MC
 Prep Batch: 99406 Sample Preparation: 2014-11-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	7740	7740	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380608 - 833-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117694 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99505 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	315	315	<1.80	mg/L	1	1.80	10	1.8

Sample: 380609 - 833-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	992	992	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380609 - 833-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	19.8	19.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380609 - 833-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117579 Date Analyzed: 2014-11-26 Analyzed By: MC
 Prep Batch: 99406 Sample Preparation: 2014-11-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2680	2680	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380609 - 833-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117694 Date Analyzed: 2014-12-03 Analyzed By: CF
 Prep Batch: 99505 Sample Preparation: 2014-12-03 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380610 - 833-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1190	1190	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380610 - 833-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	92.5	92.5	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 380610 - 833-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117579 Date Analyzed: 2014-11-26 Analyzed By: MC
 Prep Batch: 99406 Sample Preparation: 2014-11-26 Prepared By: MC

continued . . .

sample 380610 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	4300	4300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380610 - 833-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380611 - 833-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	1130	1130	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380611 - 833-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117595 Date Analyzed: 2014-11-24 Analyzed By: JR
 Prep Batch: 99417 Sample Preparation: 2014-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	63.7	63.7	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 380611 - 833-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117579 Date Analyzed: 2014-11-26 Analyzed By: MC
 Prep Batch: 99406 Sample Preparation: 2014-11-26 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	3320	3320	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380611 - 833-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117579
Prep Batch: 99406Date Analyzed: 2014-11-26
QC Preparation: 2014-11-26Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117694
Prep Batch: 99505Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: CF
Prepared By: CF

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Big Sky Dairy

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17800 Stern Drive, Mesquite, NM 88048

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 117722
Prep Batch: 99532

Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 380610

QC Batch: 117579
Prep Batch: 99406

Date Analyzed: 2014-11-26
QC Preparation: 2014-11-26

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	4270	4300	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117579
Prep Batch: 99406Date Analyzed: 2014-11-26
QC Preparation: 2014-11-26Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	1000	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	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: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	26.1	mg/L	1	25.0	<0.00680	104	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	26.2	mg/L	1	25.0	<0.00680	105	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.16	mg/L	1	5.00	<0.0251	103	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	5.17	mg/L	1	5.00	<0.0251	103	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117694
Prep Batch: 99505

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117722
Prep Batch: 99532

Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380585QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1550	mg/L	55.6	1390	82.5	106	80 - 120

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		1,4,5	1550	mg/L	55.6	1390	82.5	106	80 - 120	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: 380585QC Batch: 117595
Prep Batch: 99417Date Analyzed: 2014-11-24
QC Preparation: 2014-11-24Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	288	mg/L	55.6	278	<1.40	104	80 - 120

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		1,4,5	287	mg/L	55.6	278	<1.40	103	80 - 120	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: 380602QC Batch: 117694
Prep Batch: 99505Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 120	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: 380949

QC Batch: 117722
Prep Batch: 99532

Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-24

Standard (CCV-2)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.12	102	90 - 110	2014-11-24

Standard (CCV-3)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-24

Standard (CCV-3)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.12	102	90 - 110	2014-11-24

Standard (CCV-4)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.6	102	90 - 110	2014-11-24

Standard (CCV-4)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.14	103	90 - 110	2014-11-24

Standard (CCV-5)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.5	102	90 - 110	2014-11-24

Standard (CCV-5)

QC Batch: 117595

Date Analyzed: 2014-11-24

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.13	103	90 - 110	2014-11-24

Standard (ICV-1)

QC Batch: 117694

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-03

Standard (CCV-1)

QC Batch: 117694

Date Analyzed: 2014-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-03

Standard (ICV-1)

QC Batch: 117722

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-04

Standard (CCV-1)

QC Batch: 117722

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-12-04

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.



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 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: December 4, 2014

Work Order: 14112535



DP: 455538
 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
380747	833-02	water	2014-11-25	13:43	2014-11-25
380748	833-04	water	2014-11-25	12:14	2014-11-25
380749	833-06	water	2014-11-25	12:50	2014-11-25
380750	833-09	water	2014-11-25	11:43	2014-11-25
380751	833-10	water	2014-11-25	11:04	2014-11-25

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 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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-11-25 and assigned to work order 14112535. Samples for work order 14112535 were received intact at a temperature of 1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	99444	2014-11-25 at 19:11	117623	2014-11-25 at 19:11
NO3 (IC)	E 300.0	99444	2014-11-25 at 19:11	117623	2014-11-25 at 19:11
TDS	SM 2540C	99440	2014-11-28 at 13:40	117620	2014-11-28 at 13:40
TKN	SM 4500-NH3 B,C	99532	2014-12-04 at 09:30	117722	2014-12-04 at 13:00

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14112535 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: 380747 - 833-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	1010	1010	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380747 - 833-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	60.4	60.4	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 380747 - 833-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117620 Date Analyzed: 2014-11-28 Analyzed By: MC
 Prep Batch: 99440 Sample Preparation: 2014-11-28 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3480	3480	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380747 - 833-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380748 - 833-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	914	914	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380748 - 833-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	46.6	46.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380748 - 833-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117620 Date Analyzed: 2014-11-28 Analyzed By: MC
 Prep Batch: 99440 Sample Preparation: 2014-11-28 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3280	3280	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380748 - 833-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380749 - 833-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	836	836	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380749 - 833-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	46.5	46.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380749 - 833-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117620 Date Analyzed: 2014-11-28 Analyzed By: MC
 Prep Batch: 99440 Sample Preparation: 2014-11-28 Prepared By: MC

continued . . .

sample 380749 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2710	2710	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380749 - 833-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380750 - 833-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	965	965	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380750 - 833-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	137	137	<1.26	mg/L	50	1.26	0.5	0.0251

Sample: 380750 - 833-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117620 Date Analyzed: 2014-11-28 Analyzed By: MC
 Prep Batch: 99440 Sample Preparation: 2014-11-28 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	4260	4260	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380750 - 833-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380751 - 833-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	690	690	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380751 - 833-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117623 Date Analyzed: 2014-11-25 Analyzed By: JR
 Prep Batch: 99444 Sample Preparation: 2014-11-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	4.96	4.96	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380751 - 833-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117620 Date Analyzed: 2014-11-28 Analyzed By: MC
 Prep Batch: 99440 Sample Preparation: 2014-11-28 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2760	2760	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380751 - 833-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117620
Prep Batch: 99440Date Analyzed: 2014-11-28
QC Preparation: 2014-11-28Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117623
Prep Batch: 99444Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117623
Prep Batch: 99444Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117722
Prep Batch: 99532Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

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17800 Stern Drive, Mesquite, NM 88048

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 380747

QC Batch: 117620
Prep Batch: 99440

Date Analyzed: 2014-11-28
QC Preparation: 2014-11-28

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3520	3480	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117620
Prep Batch: 99440Date Analyzed: 2014-11-28
QC Preparation: 2014-11-28Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	998	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	996	mg/L	1	1000	<2.50	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: 117623
Prep Batch: 99444Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.7	mg/L	1	25.0	<0.00680	103	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.8	mg/L	1	25.0	<0.00680	103	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117623
Prep Batch: 99444Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.10	mg/L	1	5.00	<0.0251	102	90 - 110

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

Param	F	C	LCSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	
			Result	Units	Dil.					RPD	Limit
Nitrate-N		1,4,6	5.11	mg/L	1	5.00	<0.0251	102	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117722
Prep Batch: 99532

Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	
			Result	Units	Dil.					RPD	Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380751QC Batch: 117623
Prep Batch: 99444Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	2240	mg/L	55.6	1390	690	112	80 - 120

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		1,4,6	2240	mg/L	55.6	1390	690	112	80 - 120	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: 380751QC Batch: 117623
Prep Batch: 99444Date Analyzed: 2014-11-25
QC Preparation: 2014-11-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	290	mg/L	55.6	278	4.96	102	80 - 120

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		1,4,6	290	mg/L	55.6	278	4.96	102	80 - 120	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: 380949QC Batch: 117722
Prep Batch: 99532Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117623

Date Analyzed: 2014-11-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2014-11-25

Standard (CCV-1)

QC Batch: 117623

Date Analyzed: 2014-11-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.01	100	90 - 110	2014-11-25

Standard (CCV-2)

QC Batch: 117623

Date Analyzed: 2014-11-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.5	102	90 - 110	2014-11-25

Standard (CCV-2)

QC Batch: 117623

Date Analyzed: 2014-11-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.06	101	90 - 110	2014-11-25

Standard (CCV-3)

QC Batch: 117623

Date Analyzed: 2014-11-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.6	102	90 - 110	2014-11-25

Standard (CCV-3)

QC Batch: 117623

Date Analyzed: 2014-11-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.08	102	90 - 110	2014-11-25

Standard (ICV-1)

QC Batch: 117722

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-12-04

Standard (CCV-1)

QC Batch: 117722

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-12-04

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



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 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: December 12, 2014

Work Order: 14120235



DP: 455537
 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
381086	692-LAGOON	water	2014-12-02	08:07	2014-12-02
381087	692-01	water	2014-12-02	10:40	2014-12-02
381088	692-02	water	2014-12-02	11:46	2014-12-02
381089	692-04	water	2014-12-02	12:06	2014-12-02
381090	692-05	water	2014-12-02	13:17	2014-12-02
381091	692-06	water	2014-12-02	09:25	2014-12-02
381092	692-08	water	2014-12-02	10:14	2014-12-02
381093	692-09	water	2014-12-02	12:41	2014-12-02

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

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-12-02 and assigned to work order 14120235. Samples for work order 14120235 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	99491	2014-12-02 at 19:24	117679	2014-12-02 at 19:24
NO3 (IC)	E 300.0	99491	2014-12-02 at 19:24	117679	2014-12-02 at 19:24
TDS	SM 2540C	99510	2014-12-03 at 14:00	117699	2014-12-03 at 14:00
TKN	SM 4500-NH3 B,C	99696	2014-12-11 at 09:30	117920	2014-12-11 at 13:05

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14120235 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: 381086 - 692-LAGOON

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	4910	4910	<3.40	mg/L	500	3.40	2.5	0.0068

Sample: 381086 - 692-LAGOON

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,6	2.01	<5.00	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 381086 - 692-LAGOON

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	25500	25500	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381086 - 692-LAGOON

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117920 Date Analyzed: 2014-12-11 Analyzed By: CF
 Prep Batch: 99696 Sample Preparation: 2014-12-11 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	511	511	<18.0	mg/L	10	18.0	10	1.8

Sample: 381087 - 692-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	678	678	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381087 - 692-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	99.4	99.4	<1.26	mg/L	50	1.26	0.5	0.0251

Sample: 381087 - 692-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2830	2830	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381087 - 692-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117920 Date Analyzed: 2014-12-11 Analyzed By: CF
 Prep Batch: 99696 Sample Preparation: 2014-12-11 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	4.90	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381088 - 692-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	974	974	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381088 - 692-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	147	147	<1.26	mg/L	50	1.26	0.5	0.0251

Sample: 381088 - 692-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

continued . . .

sample 381088 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	3430	3430	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381088 - 692-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117920 Date Analyzed: 2014-12-11 Analyzed By: CF
 Prep Batch: 99696 Sample Preparation: 2014-12-11 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381089 - 692-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	582	582	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381089 - 692-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	27.1	27.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381089 - 692-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2000	2000	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381089 - 692-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117920 Date Analyzed: 2014-12-11 Analyzed By: CF
 Prep Batch: 99696 Sample Preparation: 2014-12-11 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381090 - 692-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	447	447	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381090 - 692-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	4.80	4.80	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381090 - 692-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	1460	1460	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381090 - 692-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117920 Date Analyzed: 2014-12-11 Analyzed By: CF
 Prep Batch: 99696 Sample Preparation: 2014-12-11 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381091 - 692-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

continued ...

sample 381091 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	461	461	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381091 - 692-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	3.65	3.65	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381091 - 692-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	1440	1440	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381091 - 692-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117920 Date Analyzed: 2014-12-11 Analyzed By: CF
 Prep Batch: 99696 Sample Preparation: 2014-12-11 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		U 2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381092 - 692-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	437	437	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381092 - 692-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	2.65	2.65	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381092 - 692-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	1370	1370	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381092 - 692-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117920 Date Analyzed: 2014-12-11 Analyzed By: CF
 Prep Batch: 99696 Sample Preparation: 2014-12-11 Prepared By: CF

continued . . .

sample 381092 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	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381093 - 692-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	444	444	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381093 - 692-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117679 Date Analyzed: 2014-12-02 Analyzed By: JR
 Prep Batch: 99491 Sample Preparation: 2014-12-02 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,Je	1,4,6	1.94	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381093 - 692-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117699 Date Analyzed: 2014-12-03 Analyzed By: MC
 Prep Batch: 99510 Sample Preparation: 2014-12-03 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,6	1420	1420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381093 - 692-09

Laboratory: Lubbock

Analysis: TKN

QC Batch: 117920

Prep Batch: 99696

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-12-11

Sample Preparation: 2014-12-11

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117679
Prep Batch: 99491Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117679
Prep Batch: 99491Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117699
Prep Batch: 99510Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117920
Prep Batch: 99696Date Analyzed: 2014-12-11
QC Preparation: 2014-12-11Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 381088

QC Batch: 117699
Prep Batch: 99510

Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3550	3430	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117679
Prep Batch: 99491Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	26.2	mg/L	1	25.0	<0.00680	105	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	26.2	mg/L	1	25.0	<0.00680	105	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117679
Prep Batch: 99491Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.19	mg/L	1	5.00	<0.0251	104	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.18	mg/L	1	5.00	<0.0251	104	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117699
Prep Batch: 99510Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	998	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	997	mg/L	1	1000	<2.50	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: 117920
Prep Batch: 99696

Date Analyzed: 2014-12-11
QC Preparation: 2014-12-11

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	50.0	<1.80	90	80.7 - 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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 381093QC Batch: 117679
Prep Batch: 99491Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	1930	mg/L	55.6	1390	444	107	80 - 120

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		1,4,6	1920	mg/L	55.6	1390	444	106	80 - 120	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: 381093QC Batch: 117679
Prep Batch: 99491Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	289	mg/L	55.6	278	1.94	103	80 - 120

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		1,4,6	288	mg/L	55.6	278	1.94	103	80 - 120	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: 381192QC Batch: 117920
Prep Batch: 99696Date Analyzed: 2014-12-11
QC Preparation: 2014-12-11Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,8	49.7	mg/L	1	50.0	<1.80	99	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	50.4	mg/L	1	50.0	<1.80	101	72.1 - 120	1	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: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.9	100	90 - 110	2014-12-02

Standard (CCV-1)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.95	99	90 - 110	2014-12-02

Standard (CCV-2)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.2	101	90 - 110	2014-12-02

Standard (CCV-2)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.01	100	90 - 110	2014-12-02

Standard (CCV-3)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.4	102	90 - 110	2014-12-02

Standard (CCV-3)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.04	101	90 - 110	2014-12-02

Standard (CCV-4)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.5	102	90 - 110	2014-12-02

Standard (CCV-4)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.05	101	90 - 110	2014-12-02

Standard (CCV-5)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.5	102	90 - 110	2014-12-02

Standard (CCV-5)

QC Batch: 117679

Date Analyzed: 2014-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.06	101	90 - 110	2014-12-02

Standard (ICV-1)

QC Batch: 117920

Date Analyzed: 2014-12-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-12-11

Standard (CCV-1)

QC Batch: 117920

Date Analyzed: 2014-12-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-12-11

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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):
Del Oro Dairy, PO Box 1846, Anthony, TX 88021
Project #: 455537
Project Location (including state):
Del Oro Dairy, 1025 East O'Hara, Anthony, NM

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

Sampler Signature: *Jerry*
Project Name: Jerry Settles 575-882-4331
Del Oro Dairy

LAB # (LAB USE ONLY)
38086
1-2
87
1-2
88
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89
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90
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91
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93
1-2

Field Code
692-LAGUN
692-LAGUN
692-01
692-01
692-02
692-02
692-04
692-05
692-05
692-06
692-08
692-08
692-09
692-09

Containers
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1
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1
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1

MATRIX
WATER
AIR
SOIL
SLUDGE

PRESERVATIVE METHOD
HCl
HNO₃
H₂SO₄
NaOH
ICE
NONE

Volume/Amount
250
1
1
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1

SAMPLING TIME
8:07
8:07
10:40
10:40
11:46
11:46
12:06
12:06
13:17
13:17
09:25
09:25
10:14
10:14
12:41
12:41

DATE
12-2-14
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12-2-14

Received By: *Jerry*
Date: 12-2-14
Time: 14:10

Received at Laboratory By: *Randa T.A.*
Date: 12-2-14
Time: 8:30

Relinquished By: *Jerry*
Date: 12-2-14
Time: 16:30

Relinquished By: *Dzh H-T.A.*
Date: 12-2-14
Time: 14:10

Relinquished By: *Randa T.A.*
Date: 12-2-14
Time: 16:30

Lab Use Only
Intact N
Headspace Y/N
Temp 3/3 ac
Log-in Review *JL*

Remarks:
CARRY IN
RS 49170868 2.9
2.8
Dry Weight Basis Required
TRRP Report Required

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



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: December 16, 2014

Work Order: 14120123



DP: 455536
 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
380948	257-01	water	2014-12-01	11:46	2014-12-01
380949	257-02	water	2014-12-01	10:34	2014-12-01
380950	257/260-01	water	2014-12-01	13:03	2014-12-01
380951	257 Lagoon-Storm	water	2014-12-01	11:00	2014-12-01
380952	257 Waste Water Lagoon	water	2014-12-01	11:32	2014-12-01
380953	257 Feedlot Lagoon	water	2014-12-01	12:16	2014-12-01

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 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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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QC Batch 117794 - CCV (1)	26
QC Batch 118025 - CCV (1)	26
QC Batch 118025 - CCV (1)	26
QC Batch 118025 - CCV (1)	26
QC Batch 118025 - CCV (2)	27

QC Batch 118025 - CCV (2)	27
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Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2014-12-01 and assigned to work order 14120123. Samples for work order 14120123 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	99790	2014-12-01 at 19:10	118025	2014-12-01 at 19:10
NO3 (IC)	E 300.0	99790	2014-12-01 at 19:10	118025	2014-12-01 at 19:10
SO4 (IC)	E 300.0	99790	2014-12-01 at 19:10	118025	2014-12-01 at 19:10
Sulfide	SM 4500-S2 D	99593	2014-12-08 at 10:00	117794	2014-12-08 at 11:15
TDS	SM 2540C	99458	2014-12-02 at 13:15	117643	2014-12-02 at 13:15
TKN	SM 4500-NH3 B,C	99532	2014-12-04 at 09:30	117722	2014-12-04 at 13:00
TKN	SM 4500-NH3 B,C	99534	2014-12-04 at 09:30	117723	2014-12-04 at 13:00

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14120123 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: 380948 - 257-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	750	750	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380948 - 257-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	47.9	47.9	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 380948 - 257-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,5	568	568	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 380948 - 257-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117643 Date Analyzed: 2014-12-02 Analyzed By: MC
 Prep Batch: 99458 Sample Preparation: 2014-12-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,5	3370	3370	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380948 - 257-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380949 - 257-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride		1,4,5	669	669	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380949 - 257-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1,4,5	6.39	6.39	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380949 - 257-02

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,5	498	498	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 380949 - 257-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117643 Date Analyzed: 2014-12-02 Analyzed By: MC
 Prep Batch: 99458 Sample Preparation: 2014-12-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2760	2760	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380949 - 257-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117722 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99532 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		U 2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380950 - 257/260-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

continued ...

sample 380950 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	375	375	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 380950 - 257/260-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	4.92	4.92	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380950 - 257/260-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	280	280	<0.106	mg/L	10	0.106	2.5	0.0106

Sample: 380950 - 257/260-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117643 Date Analyzed: 2014-12-02 Analyzed By: MC
 Prep Batch: 99458 Sample Preparation: 2014-12-02 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1520	1520	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380950 - 257/260-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117723 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99534 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	2.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380951 - 257 Lagoon-Storm

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1120	1120	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380951 - 257 Lagoon-Storm

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,5	1.06	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380951 - 257 Lagoon-Storm

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	87.3	87.3	<0.0530	mg/L	5	0.0530	2.5	0.0106

Sample: 380951 - 257 Lagoon-Storm

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 117794 Date Analyzed: 2014-12-08 Analyzed By: CF
 Prep Batch: 99593 Sample Preparation: 2014-12-08 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfide		2	0.470	0.470	<0.0117	mg/L	1	0.0117	0.1	0.0117

Sample: 380951 - 257 Lagoon-Storm

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117643 Date Analyzed: 2014-12-02 Analyzed By: MC
 Prep Batch: 99458 Sample Preparation: 2014-12-02 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	5860	5860	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380951 - 257 Lagoon-Storm

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117723 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99534 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	267	267	<1.80	mg/L	1	1.80	10	1.8

Sample: 380952 - 257 Waste Water Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	2270	2270	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380952 - 257 Waste Water Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,5	<0.251	<5.00	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 380952 - 257 Waste Water Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Sulfate		1,4,5	165	165	<0.106	mg/L	10	0.106	2.5	0.0106

Sample: 380952 - 257 Waste Water Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 117794 Date Analyzed: 2014-12-08 Analyzed By: CF
 Prep Batch: 99593 Sample Preparation: 2014-12-08 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Sulfide		2	0.689	0.689	<0.0117	mg/L	1	0.0117	0.1	0.0117

Sample: 380952 - 257 Waste Water Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117643 Date Analyzed: 2014-12-02 Analyzed By: MC
 Prep Batch: 99458 Sample Preparation: 2014-12-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	12600	12600	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380952 - 257 Waste Water Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117723 Date Analyzed: 2014-12-04 Analyzed By: CF
 Prep Batch: 99534 Sample Preparation: 2014-12-04 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	255	255	<1.80	mg/L	1	1.80	10	1.8

Sample: 380953 - 257 Feedlot Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	3650	3650	<0.680	mg/L	100	0.680	2.5	0.0068

Sample: 380953 - 257 Feedlot Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 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	1,4,5	<0.251	<5.00	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 380953 - 257 Feedlot Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
 Prep Batch: 99790 Sample Preparation: 2014-12-01 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	1040	1040	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 380953 - 257 Feedlot Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 117794 Date Analyzed: 2014-12-08 Analyzed By: CF
 Prep Batch: 99593 Sample Preparation: 2014-12-08 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfide	u	2	<0.0117	<0.100	<0.0117	mg/L	1	0.0117	0.1	0.0117

Sample: 380953 - 257 Feedlot Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117643 Date Analyzed: 2014-12-02 Analyzed By: MC
 Prep Batch: 99458 Sample Preparation: 2014-12-02 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	11300	11300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380953 - 257 Feedlot Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A

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QC Batch: 117723
Prep Batch: 99534

Date Analyzed: 2014-12-04
Sample Preparation: 2014-12-04

Analyzed By: CF
Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	57.4	57.4	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117643
Prep Batch: 99458Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117722
Prep Batch: 99532Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 117723
Prep Batch: 99534Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 117794
Prep Batch: 99593Date Analyzed: 2014-12-08
QC Preparation: 2014-12-08Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Sulfide		2	<0.0117	mg/L	0.0117

Method Blank (1)QC Batch: 118025
Prep Batch: 99790Date Analyzed: 2014-12-01
QC Preparation: 2014-12-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)QC Batch: 118025
Prep Batch: 99790Date Analyzed: 2014-12-01
QC Preparation: 2014-12-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)QC Batch: 118025
Prep Batch: 99790Date Analyzed: 2014-12-01
QC Preparation: 2014-12-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,5	<0.0106	mg/L	0.0106

Duplicates

Duplicate (1) Duplicated Sample: 380948

QC Batch: 117643
Prep Batch: 99458

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3400	3370	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117643
Prep Batch: 99458Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	1	1000	<2.50	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		1,4,5	999	mg/L	1	1000	<2.50	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: 117722
Prep Batch: 99532Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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 Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117723
Prep Batch: 99534Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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
Nitrate-N		1,4,5	4.92	mg/L	1	5.00	<0.0251	98	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Nitrate-N		1,4,5	4.93	mg/L	1	5.00	<0.0251	99	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 118025
Prep Batch: 99790

Date Analyzed: 2014-12-01
QC Preparation: 2014-12-01

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,5	24.9	mg/L	1	25.0	<0.0106	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Sulfate		1,4,5	24.9	mg/L	1	25.0	<0.0106	100	90 - 110	0	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380949QC Batch: 117722
Prep Batch: 99532Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	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: 380954QC Batch: 117723
Prep Batch: 99534Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	49.0	mg/L	1	50.0	5.6	87	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	49.7	mg/L	1	50.0	5.6	88	72.1 - 120	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: 381376QC Batch: 117794
Prep Batch: 99593Date Analyzed: 2014-12-08
QC Preparation: 2014-12-08Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide		2	0.400	mg/L	1	0.400	<0.0117	100	80 - 120

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							
Sulfide		2	0.402	mg/L	1	0.400	<0.0117	100	80 - 120	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: 380950

QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
Prep Batch: 99790 QC Preparation: 2014-12-01 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1810	mg/L	55.6	1390	375	103	80 - 120

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		1,4,5	1790	mg/L	55.6	1390	375	102	80 - 120	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: 380950

QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
Prep Batch: 99790 QC Preparation: 2014-12-01 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	284	mg/L	55.6	278	4.92	100	80 - 120

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		1,4,5	279	mg/L	55.6	278	4.92	98	80 - 120	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: 380950

QC Batch: 118025 Date Analyzed: 2014-12-01 Analyzed By: JR
Prep Batch: 99790 QC Preparation: 2014-12-01 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,5	1710	mg/L	55.6	1390	280	103	80 - 120

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	
Sulfate		1,4,5	1690	mg/L	55.6	1390	280	101	80 - 120	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: 117722

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-04

Standard (CCV-1)

QC Batch: 117722

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-12-04

Standard (ICV-1)

QC Batch: 117723

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-04

Standard (CCV-1)

QC Batch: 117723

Date Analyzed: 2014-12-04

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2014-12-04

Standard (ICV-1)

QC Batch: 117794

Date Analyzed: 2014-12-08

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.397	99	85 - 115	2014-12-08

Standard (CCV-1)

QC Batch: 117794

Date Analyzed: 2014-12-08

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.404	101	85 - 115	2014-12-08

Standard (CCV-1)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.7	103	90 - 110	2014-12-01

Standard (CCV-1)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.09	102	90 - 110	2014-12-01

Standard (CCV-1)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	25.6	102	90 - 110	2014-12-01

Standard (CCV-2)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.7	103	90 - 110	2014-12-01

Standard (CCV-2)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.09	102	90 - 110	2014-12-01

Standard (CCV-2)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	25.7	103	90 - 110	2014-12-01

Standard (CCV-3)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.7	103	90 - 110	2014-12-01

Standard (CCV-3)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.09	102	90 - 110	2014-12-01

Standard (CCV-3)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	25.6	102	90 - 110	2014-12-01

Standard (CCV-4)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.7	103	90 - 110	2014-12-01

Standard (CCV-4)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.10	102	90 - 110	2014-12-01

Standard (CCV-4)

QC Batch: 118025

Date Analyzed: 2014-12-01

Analyzed By: JR

Report Date: December 16, 2014

Work Order: 14120123
Sunset Dairy

Page Number: 29 of 32
17900 S. Stern Dr., Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	25.7	103	90 - 110	2014-12-01

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0300	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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: **14120123** Phone #: 915-859-8150
 D&H Petroleum & Environmental Services Cell #:
 Address: (Street, City, Zip) **vajala@dhpump.com**
 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: **Victor Ayala**
 Invoice to (if different from above): **Ed DeRuyter 575-233-2029**
 Sunset Dairy, PO Box 10, Mesquite, NM 88048
 Project #: **455536**
 Project Name: **Sunset Dairy**
 Project Location (including state): **Sunset Dairy, 1790**
 Sampler Signature: *guy*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING			
				WATER	AIR	SOIL	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
380948	257-01	1	250	X				X					12-1-14	11:46
L	257-01	1	250	X				X						11:46
49	257-02	1	250	X				X					10:34	10:34
L	257-02	1	250	X				X					10:34	10:34
	257-03	1	250	X				X						
	257-03	1	250	X				X						
50	257/260-01	1	250	X				X						13:03
L	257/260-01	1	250	X				X						13:03
S/	257 Lagoon - STORM	1	250	X				X						11:00
L	257 Lagoon - STORM	1	250	X				X						11:00
L	257 Lagoon - STORM	1	250	X				X						11:00
S2	257 Waste Water Lagoon	1	250					X						11:32
L	257 Waste Water Lagoon	1	250					X						11:32
L	257 Waste Water Lagoon	1	250					X						11:32

ANALYSIS REQUEST		MTRB 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	Nitrates EPA 300	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Sulfate EPA Method 300.0	Sulfide	Turn Around Time	Hold
380948	257-01															
L	257-01								X							
49	257-02								X							
L	257-02								X							
	257-03								X							
	257-03								X							
50	257/260-01								X							
L	257/260-01								X							
S/	257 Lagoon - STORM								X							
L	257 Lagoon - STORM								X							
L	257 Lagoon - STORM								X							
S2	257 Waste Water Lagoon								X							
L	257 Waste Water Lagoon								X							
L	257 Waste Water Lagoon								X							

Relinquished By: *guy* Date: 12-1-14 Time: 14:07
 Received By: *D7 dH-* Date: 12-1-14 Time: 14:07
 Intact Y / N
 Headspace Y / N
 Temp: *3/3*
 Log-in Review Y / N

Relinquished By: *D7 dH-* Date: 12-1-14 Time: 14:30
 Received at Laboratory By: *BCJ TA 12-2-14* Date: 12-1-14 Time: 14:30

Remarks: **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

Linda Armstrong
 Dona Ana Dairies

Report Date: December 19, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14120333



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
381197	DAD-01	water	2014-12-03	08:45	2014-12-03
381198	DAD-02	water	2014-12-03	09:08	2014-12-03
381199	DAD-03	water	2014-12-03	09:42	2014-12-03
381200	DAD-04	water	2014-12-03	10:03	2014-12-03
381201	DAD-05	water	2014-12-03	10:32	2014-12-03
381202	DAD-07	water	2014-12-03	11:57	2014-12-03
381203	DAD-08	water	2014-12-03	12:21	2014-12-03
381204	DAD-16	water	2014-12-03	11:18	2014-12-03
381205	DAD-22	water	2014-12-03	13:11	2014-12-03

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

This report consists of a total of 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-12-03 and assigned to work order 14120333. Samples for work order 14120333 were received intact at a temperature of 20 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	99536	2014-12-03 at 19:15	117726	2014-12-03 at 19:15
NO3 (IC)	E 300.0	99536	2014-12-03 at 19:15	117726	2014-12-03 at 19:15
TDS	SM 2540C	99550	2014-12-04 at 15:20	117747	2014-12-04 at 15:20
TDS	SM 2540C	99625	2014-12-08 at 14:20	117830	2014-12-08 at 14:20
TKN	SM 4500-NH3 B,C	99779	2014-12-15 at 09:40	118013	2014-12-15 at 13:00
TKN	SM 4500-NH3 B,C	99880	2014-12-18 at 10:00	118133	2014-12-18 at 14:20

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 14120333 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: 381197 - DAD-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	468	468	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381197 - DAD-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	6.53	6.53	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381197 - DAD-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117747 Date Analyzed: 2014-12-04 Analyzed By: MC
 Prep Batch: 99550 Sample Preparation: 2014-12-04 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1780	1780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381197 - DAD-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118013 Date Analyzed: 2014-12-15 Analyzed By: CF
 Prep Batch: 99779 Sample Preparation: 2014-12-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381198 - DAD-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	542	542	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381198 - DAD-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	8.47	8.47	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381198 - DAD-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117747 Date Analyzed: 2014-12-04 Analyzed By: MC
 Prep Batch: 99550 Sample Preparation: 2014-12-04 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1710	1710	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381198 - DAD-02

Laboratory: Lubbock

Analysis: TKN

QC Batch: 118013

Prep Batch: 99779

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-12-15

Sample Preparation: 2014-12-15

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381199 - DAD-03

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 117726

Prep Batch: 99536

Analytical Method: E 300.0

Date Analyzed: 2014-12-03

Sample Preparation: 2014-12-03

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	569	569	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381199 - DAD-03

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 117726

Prep Batch: 99536

Analytical Method: E 300.0

Date Analyzed: 2014-12-03

Sample Preparation: 2014-12-03

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381199 - DAD-03

Laboratory: El Paso

Analysis: TDS

QC Batch: 117747

Prep Batch: 99550

Analytical Method: SM 2540C

Date Analyzed: 2014-12-04

Sample Preparation: 2014-12-04

Prep Method: N/A

Analyzed By: MC

Prepared By: MC

continued . . .

sample 381199 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2560	2560	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381199 - DAD-03

Laboratory: Lubbock

Analysis: TKN

QC Batch: 118013

Prep Batch: 99779

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-12-15

Sample Preparation: 2014-12-15

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381200 - DAD-04

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 117726

Prep Batch: 99536

Analytical Method: E 300.0

Date Analyzed: 2014-12-03

Sample Preparation: 2014-12-03

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	185	185	<0.0340	mg/L	5	0.0340	2.5	0.0068

Sample: 381200 - DAD-04

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 117726

Prep Batch: 99536

Analytical Method: E 300.0

Date Analyzed: 2014-12-03

Sample Preparation: 2014-12-03

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,Je	1,4,5	1.65	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381200 - DAD-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117747 Date Analyzed: 2014-12-04 Analyzed By: MC
 Prep Batch: 99550 Sample Preparation: 2014-12-04 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1260	1260	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381200 - DAD-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118013 Date Analyzed: 2014-12-15 Analyzed By: CF
 Prep Batch: 99779 Sample Preparation: 2014-12-15 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381201 - DAD-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	273	273	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381201 - DAD-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	2.55	2.55	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381201 - DAD-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117747 Date Analyzed: 2014-12-04 Analyzed By: MC
 Prep Batch: 99550 Sample Preparation: 2014-12-04 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1300	1300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381201 - DAD-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118013 Date Analyzed: 2014-12-15 Analyzed By: CF
 Prep Batch: 99779 Sample Preparation: 2014-12-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381202 - DAD-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

continued ...

sample 381202 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	607	607	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381202 - DAD-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	6.85	6.85	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381202 - DAD-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117747 Date Analyzed: 2014-12-04 Analyzed By: MC
 Prep Batch: 99550 Sample Preparation: 2014-12-04 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2180	2180	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381202 - DAD-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118013 Date Analyzed: 2014-12-15 Analyzed By: CF
 Prep Batch: 99779 Sample Preparation: 2014-12-15 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381203 - DAD-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	1700	1700	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381203 - DAD-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	48.1	48.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381203 - DAD-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117747 Date Analyzed: 2014-12-04 Analyzed By: MC
 Prep Batch: 99550 Sample Preparation: 2014-12-04 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	5930	5930	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381203 - DAD-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118013 Date Analyzed: 2014-12-15 Analyzed By: CF
 Prep Batch: 99779 Sample Preparation: 2014-12-15 Prepared By: CF

continued . . .

sample 381203 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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381204 - DAD-16

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	679	679	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381204 - DAD-16

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	2.79	2.79	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381204 - DAD-16

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117747 Date Analyzed: 2014-12-04 Analyzed By: MC
 Prep Batch: 99550 Sample Preparation: 2014-12-04 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2220	2220	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381204 - DAD-16

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118013 Date Analyzed: 2014-12-15 Analyzed By: CF
 Prep Batch: 99779 Sample Preparation: 2014-12-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381205 - DAD-22

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	915	915	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381205 - DAD-22

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 Sample Preparation: 2014-12-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	6.52	6.52	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381205 - DAD-22

Laboratory: El Paso
 Analysis: TDS
 QC Batch: 117830
 Prep Batch: 99625

Analytical Method: SM 2540C
 Date Analyzed: 2014-12-08
 Sample Preparation: 2014-12-08

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2480	2480	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381205 - DAD-22

Laboratory: Lubbock
 Analysis: TKN
 QC Batch: 118133
 Prep Batch: 99880

Analytical Method: SM 4500-NH3 B,C
 Date Analyzed: 2014-12-18
 Sample Preparation: 2014-12-18

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

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117726
Prep Batch: 99536Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117726
Prep Batch: 99536Date Analyzed: 2014-12-03
QC Preparation: 2014-12-03Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117747
Prep Batch: 99550Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117830
Prep Batch: 99625Date Analyzed: 2014-12-08
QC Preparation: 2014-12-08Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 118013
Prep Batch: 99779Date Analyzed: 2014-12-15
QC Preparation: 2014-12-15Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 118133
Prep Batch: 99880Date Analyzed: 2014-12-18
QC Preparation: 2014-12-18Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 381197QC Batch: 117747
Prep Batch: 99550Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	1700	1780	mg/L	1	5	10

Duplicate (1) Duplicated Sample: 381205QC Batch: 117830
Prep Batch: 99625Date Analyzed: 2014-12-08
QC Preparation: 2014-12-08Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2440	2480	mg/L	1	2	10

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 381198

QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 QC Preparation: 2014-12-03 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	2100	mg/L	55.6	1390	542	112	80 - 120

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		1,4,5	2100	mg/L	55.6	1390	542	112	80 - 120	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: 381198

QC Batch: 117726 Date Analyzed: 2014-12-03 Analyzed By: JR
 Prep Batch: 99536 QC Preparation: 2014-12-03 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	299	mg/L	55.6	278	8.47	104	80 - 120

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		1,4,5	299	mg/L	55.6	278	8.47	104	80 - 120	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: 381268

QC Batch: 118013 Date Analyzed: 2014-12-15 Analyzed By: CF
 Prep Batch: 99779 QC Preparation: 2014-12-15 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120	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: 381423

QC Batch: 118133
 Prep Batch: 99880

Date Analyzed: 2014-12-18
 QC Preparation: 2014-12-18

Analyzed By: CF
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117726

Date Analyzed: 2014-12-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2014-12-03

Standard (CCV-1)

QC Batch: 117726

Date Analyzed: 2014-12-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.05	101	90 - 110	2014-12-03

Standard (CCV-2)

QC Batch: 117726

Date Analyzed: 2014-12-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.6	102	90 - 110	2014-12-03

Standard (CCV-2)

QC Batch: 117726

Date Analyzed: 2014-12-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.07	101	90 - 110	2014-12-03

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-15

Standard (CCV-1)

QC Batch: 118013

Date Analyzed: 2014-12-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2014-12-15

Standard (ICV-1)

QC Batch: 118133

Date Analyzed: 2014-12-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-12-18

Standard (CCV-1)

QC Batch: 118133

Date Analyzed: 2014-12-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2014-12-18

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: December 19, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14120448



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
381320	DAD-12	Water	2014-12-04	11:24	2014-12-04
381321	DAD-13	Water	2014-12-04	10:31	2014-12-04
381322	DAD-14	Water	2014-12-04	08:53	2014-12-04
381323	DAD-15	Water	2014-12-04	10:04	2014-12-04
381324	DAD-20	Water	2014-12-04	12:14	2014-12-04
381325	DAD-21	Water	2014-12-04	13:21	2014-12-04

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-12-04 and assigned to work order 14120448. Samples for work order 14120448 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	99572	2014-12-04 at 18:47	117772	2014-12-04 at 18:47
NO3 (IC)	E 300.0	99572	2014-12-04 at 18:47	117772	2014-12-04 at 18:47
TDS	SM 2540C	99625	2014-12-08 at 14:20	117830	2014-12-08 at 14:20
TKN	SM 4500-NH3 B,C	99880	2014-12-18 at 10:00	118133	2014-12-18 at 14:20

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 14120448 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: 381320 - DAD-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	620	620	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381320 - DAD-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	19.0	19.0	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381320 - DAD-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117830 Date Analyzed: 2014-12-08 Analyzed By: MC
 Prep Batch: 99625 Sample Preparation: 2014-12-08 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2760	2760	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381320 - DAD-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381321 - DAD-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	581	581	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381321 - DAD-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	9.14	9.14	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381321 - DAD-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117830 Date Analyzed: 2014-12-08 Analyzed By: MC
 Prep Batch: 99625 Sample Preparation: 2014-12-08 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2160	2160	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381321 - DAD-13

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381322 - DAD-14

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	933	933	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381322 - DAD-14

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	30.3	30.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381322 - DAD-14

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117830 Date Analyzed: 2014-12-08 Analyzed By: MC
 Prep Batch: 99625 Sample Preparation: 2014-12-08 Prepared By: MC

continued . . .

sample 381322 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	3200	3200	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381322 - DAD-14

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381323 - DAD-15

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	508	508	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381323 - DAD-15

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	5.79	5.79	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381323 - DAD-15

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117830 Date Analyzed: 2014-12-08 Analyzed By: MC
 Prep Batch: 99625 Sample Preparation: 2014-12-08 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	1730	1730	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381323 - DAD-15

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381324 - DAD-20

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	806	806	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381324 - DAD-20

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	20.8	20.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381324 - DAD-20

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117830 Date Analyzed: 2014-12-08 Analyzed By: MC
 Prep Batch: 99625 Sample Preparation: 2014-12-08 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2240	2240	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381324 - DAD-20

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381325 - DAD-21

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

continued ...

sample 381325 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	465	465	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381325 - DAD-21

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117772 Date Analyzed: 2014-12-04 Analyzed By: JR
 Prep Batch: 99572 Sample Preparation: 2014-12-04 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	5.03	5.03	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381325 - DAD-21

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117830 Date Analyzed: 2014-12-08 Analyzed By: MC
 Prep Batch: 99625 Sample Preparation: 2014-12-08 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	1760	1760	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381325 - DAD-21

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117772
Prep Batch: 99572Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117772
Prep Batch: 99572Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117830
Prep Batch: 99625Date Analyzed: 2014-12-08
QC Preparation: 2014-12-08Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 118133
Prep Batch: 99880Date Analyzed: 2014-12-18
QC Preparation: 2014-12-18Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 381205

QC Batch: 117830
 Prep Batch: 99625

Date Analyzed: 2014-12-08
 QC Preparation: 2014-12-08

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2440	2480	mg/L	1	2	10

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	1000	mg/L	1	1000	<2.50	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: 118133
 Prep Batch: 99880

Date Analyzed: 2014-12-18
 QC Preparation: 2014-12-18

Analyzed By: CF
 Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 381325

QC Batch: 117772
Prep Batch: 99572Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	1940	mg/L	55.6	1390	465	106	80 - 120

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		1,4,6	1920	mg/L	55.6	1390	465	105	80 - 120	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: 381325

QC Batch: 117772
Prep Batch: 99572Date Analyzed: 2014-12-04
QC Preparation: 2014-12-04Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	284	mg/L	55.6	278	5.03	100	80 - 120

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		1,4,6	280	mg/L	55.6	278	5.03	99	80 - 120	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: 381423

QC Batch: 118133
Prep Batch: 99880Date Analyzed: 2014-12-18
QC Preparation: 2014-12-18Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,9	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	42.7	mg/L	1	50.0	<1.80	85	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117772

Date Analyzed: 2014-12-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2014-12-04

Standard (CCV-1)

QC Batch: 117772

Date Analyzed: 2014-12-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.02	100	90 - 110	2014-12-04

Standard (CCV-2)

QC Batch: 117772

Date Analyzed: 2014-12-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.6	102	90 - 110	2014-12-04

Standard (CCV-2)

QC Batch: 117772

Date Analyzed: 2014-12-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.07	101	90 - 110	2014-12-04

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2014-12-18

Standard (CCV-1)

QC Batch: 118133

Date Analyzed: 2014-12-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	5.04	101	85 - 115	2014-12-18

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2014-018	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.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

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Tel (915) 585-3443
Fax (915) 585-4944

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: _____

Phone #: 915-859-8150

LAB Order ID # 14120447

D&H Petroleum & Environmental Services

Cell #: _____

Address: (Street, City, Zip)

Fax #: _____

1221 Tower Trail Ln, El Paso TX 79907

E-mail: vajala@dhpump.com

Contact Person: _____

Victor Ayala

Invoice to (if different from above): _____

Dona Ana Dairies, PO Box 10, Mesquite, NM 88048

Linda Armstrong 575-233-3620

Project #: 4555 20

Project Name: _____

Project Location (including state): _____

Dona Ana Dairies Consortium

Various Dairies, Dona Ana County, NM

Sampler Signature: *Juf*

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	TIME	
2013-20-1	DAD-12	1	2.50	X				X				X			12-4-14	11:24
-2	DAD-12	1		X				X				X			11:24	
21-1	DAD-13	1		X				X				X			10:31	
-2	DAD-13	1		X				X				X			10:31	
22-1	DAD-14	1		X				X				X			0853	
-2	DAD-14	1		X				X				X			0853	
23-1	DAD-15	1		X				X				X			10:04	
-2	DAD-15	1		X				X				X			10:04	
24-1	DAD-20	1		X				X				X			12:14	
-2	DAD-20	1		X				X				X			12:14	
25-1	DAD-21	1		X				X				X			1321	
-2	DAD-21	1		X				X				X			1321	

Requiring By: *Juf* Date: 12-4-14 Time: 14:00
 Received By: *WLL* Date: 12-4-14 Time: 14:00
 Requiring By: *WLL* Date: 12-4-14 Time: 14:30
 Received at Laboratory By: _____ Date: _____ Time: _____

Lab Use Only
 Intact Y N
 Headspace Y N
 Temp *22*
 Log-in Review *12-4-14*

Remarks: *on file*
Carry on

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



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: December 29, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14120527



Project Location: Various Dairies, Dona Ana County, NM
 Project Name: Dona Ana Dairies Consortium
 Project #: 455520

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
381421	DAD-09	water	2014-12-04	11:35	2014-12-05
381422	DAD-10	water	2014-12-04	11:15	2014-12-05
381423	DAD-11	water	2014-12-04	08:44	2014-12-05
381424	DAD-17	water	2014-12-04	09:19	2014-12-05
381425	DAD-18	water	2014-12-04	09:50	2014-12-05
381426	DAD-19	water	2014-12-04	10:32	2014-12-05

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 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-12-05 and assigned to work order 14120527. Samples for work order 14120527 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	99599	2014-12-05 at 19:16	117803	2014-12-05 at 19:16
NO3 (IC)	E 300.0	99599	2014-12-05 at 19:16	117803	2014-12-05 at 19:16
TDS	SM 2540C	99674	2014-12-09 at 14:12	117893	2014-12-09 at 14:12
TKN	SM 4500-NH3 B,C	99880	2014-12-18 at 10:00	118133	2014-12-18 at 14:20
TKN	SM 4500-NH3 B,C	100028	2014-12-29 at 10:40	118301	2014-12-29 at 14:00

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 14120527 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. 117803 Method Blank-1	Nitrate-N	MI2	Instrument software did not integrate
2. 117803 Method Blank-1	Nitrate-N	MI5	Baseline correction

Analytical Report

Sample: 381421 - DAD-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	495	495	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381421 - DAD-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI2,MI5	1,4,5	4.27	4.27	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381421 - DAD-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117893 Date Analyzed: 2014-12-09 Analyzed By: MC
 Prep Batch: 99674 Sample Preparation: 2014-12-09 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1800	1800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381421 - DAD-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381422 - DAD-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	461	461	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381422 - DAD-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		B,MI2,MI5 1,4,5	12.8	12.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381422 - DAD-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117893 Date Analyzed: 2014-12-09 Analyzed By: MC
 Prep Batch: 99674 Sample Preparation: 2014-12-09 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1720	1720	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381422 - DAD-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 Sample Preparation: 2014-12-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381423 - DAD-11

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1230	1230	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381423 - DAD-11

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI2,MI5	1,4,5	19.9	19.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381423 - DAD-11

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117893 Date Analyzed: 2014-12-09 Analyzed By: MC
 Prep Batch: 99674 Sample Preparation: 2014-12-09 Prepared By: MC

continued . . .

sample 381423 continued ...

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Dissolved Solids		1,4,5	3870	3870	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381423 - DAD-11

Laboratory: Lubbock

Analysis: TKN

QC Batch: 118133

Prep Batch: 99880

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-12-18

Sample Preparation: 2014-12-18

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381424 - DAD-17

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 117803

Prep Batch: 99599

Analytical Method: E 300.0

Date Analyzed: 2014-12-05

Sample Preparation: 2014-12-05

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Chloride		1,4,5	451	451	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 381424 - DAD-17

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 117803

Prep Batch: 99599

Analytical Method: E 300.0

Date Analyzed: 2014-12-05

Sample Preparation: 2014-12-05

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	B,MI2,MI5	1,4,5	6.87	6.87	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381424 - DAD-17

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117893 Date Analyzed: 2014-12-09 Analyzed By: MC
 Prep Batch: 99674 Sample Preparation: 2014-12-09 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1820	1820	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381424 - DAD-17

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118301 Date Analyzed: 2014-12-29 Analyzed By: CF
 Prep Batch: 100028 Sample Preparation: 2014-12-29 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381425 - DAD-18

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	623	623	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381425 - DAD-18

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI2,MI5	1,4,5	19.3	19.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381425 - DAD-18

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117893 Date Analyzed: 2014-12-09 Analyzed By: MC
 Prep Batch: 99674 Sample Preparation: 2014-12-09 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2780	2780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381425 - DAD-18

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118301 Date Analyzed: 2014-12-29 Analyzed By: CF
 Prep Batch: 100028 Sample Preparation: 2014-12-29 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 381426 - DAD-19

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

continued ...

sample 381426 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	782	782	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 381426 - DAD-19

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 Sample Preparation: 2014-12-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	B,MI2,MI5	1,4,5	10.7	10.7	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 381426 - DAD-19

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117893 Date Analyzed: 2014-12-09 Analyzed By: MC
 Prep Batch: 99674 Sample Preparation: 2014-12-09 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2670	2670	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 381426 - DAD-19

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 118301 Date Analyzed: 2014-12-29 Analyzed By: CF
 Prep Batch: 100028 Sample Preparation: 2014-12-29 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117803
Prep Batch: 99599Date Analyzed: 2014-12-05
QC Preparation: 2014-12-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117803
Prep Batch: 99599Date Analyzed: 2014-12-05
QC Preparation: 2014-12-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	B,MI2,MI5	1,4,5	0.173	mg/L	0.0251

Method Blank (1)

QC Batch: 117893
Prep Batch: 99674Date Analyzed: 2014-12-09
QC Preparation: 2014-12-09Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 118133
Prep Batch: 99880Date Analyzed: 2014-12-18
QC Preparation: 2014-12-18Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 118301
 Prep Batch: 100028

Date Analyzed: 2014-12-29
 QC Preparation: 2014-12-29

Analyzed By: CF
 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 381421

QC Batch: 117893
 Prep Batch: 99674

Date Analyzed: 2014-12-09
 QC Preparation: 2014-12-09

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	1820	1800	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117803
 Prep Batch: 99599

Date Analyzed: 2014-12-05
 QC Preparation: 2014-12-05

Analyzed By: JR
 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	25.0	mg/L	1	25.0	<0.00680	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	25.0	mg/L	1	25.0	<0.00680	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117803
 Prep Batch: 99599

Date Analyzed: 2014-12-05
 QC Preparation: 2014-12-05

Analyzed By: JR
 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.96	mg/L	1	5.00	<0.0251	99	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.95	mg/L	1	5.00	<0.0251	99	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117893
 Prep Batch: 99674

Date Analyzed: 2014-12-09
 QC Preparation: 2014-12-09

Analyzed By: MC
 Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	995	mg/L	1	1000	<2.50	100	90 - 110

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 381424

QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 QC Preparation: 2014-12-05 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	1870	mg/L	55.6	1390	451	102	80 - 120

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		1,4,5	1880	mg/L	55.6	1390	451	103	80 - 120	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: 381424

QC Batch: 117803 Date Analyzed: 2014-12-05 Analyzed By: JR
 Prep Batch: 99599 QC Preparation: 2014-12-05 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	283	mg/L	55.6	278	6.87	99	80 - 120

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		1,4,5	283	mg/L	55.6	278	6.87	99	80 - 120	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: 381423

QC Batch: 118133 Date Analyzed: 2014-12-18 Analyzed By: CF
 Prep Batch: 99880 QC Preparation: 2014-12-18 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	72.1 - 120	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: 381791

QC Batch: 118301
 Prep Batch: 100028

Date Analyzed: 2014-12-29
 QC Preparation: 2014-12-29

Analyzed By: CF
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	47.6	mg/L	1	50.0	<1.80	95	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	49.0	mg/L	1	50.0	<1.80	98	72.1 - 120	3	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117803

Date Analyzed: 2014-12-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2014-12-05

Standard (CCV-1)

QC Batch: 117803

Date Analyzed: 2014-12-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.01	100	90 - 110	2014-12-05

Standard (CCV-2)

QC Batch: 117803

Date Analyzed: 2014-12-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.6	102	90 - 110	2014-12-05

Standard (CCV-2)

QC Batch: 117803

Date Analyzed: 2014-12-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.06	101	90 - 110	2014-12-05

Standard (CCV-3)

QC Batch: 117803

Date Analyzed: 2014-12-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.8	103	90 - 110	2014-12-05

Standard (CCV-3)

QC Batch: 117803

Date Analyzed: 2014-12-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.11	102	90 - 110	2014-12-05

Standard (ICV-1)

QC Batch: 118133

Date Analyzed: 2014-12-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-12-18

Standard (CCV-1)

QC Batch: 118133

Date Analyzed: 2014-12-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2014-12-18

Standard (ICV-1)

QC Batch: 118301

Date Analyzed: 2014-12-29

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-12-29

Standard (CCV-1)

QC Batch: 118301

Date Analyzed: 2014-12-29

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.90	98	85 - 115	2014-12-29

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

8701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
T (800) 378-1296

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
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Bio-Aquatic Testing
2501 Mayan Rd., Ste 110
Carrollton, Texas 75008
Tel (972) 242-7750

email: lab@traceanalysis.com

Company Name: DH Petroleum - Environmental Phone #: 915-851-8150
 Address: 1227 Tower Trails Ln, El Paso, TX 79907 Fax #:
 Contact Person: Vicor Anala E-mail: vicor@dhump.com
 Invoice to: LINA ARGENTE, 575233-3628
 (If different from above) Po Box 14, Mesquite, NM 88048 Project Name: VARS DAIRIES
 Project #: 455520 Sampler Signature: Jub
 Project Location (including state): VARS DAIRIES, Don Ana County

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		
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, SO ₄ , NO ₃ , N, NO ₂ , N, PO ₄ , P, Alkalinity		
Na, Ca, Mg, K, TDS, EC		
Nitrates EPA 300.0	X	
TPH EPA 300.0	X	
Chlorides EPA 300.0	X	
TSS SM 2540 & Mod		X
Turn Around Time if different from standard		

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE	SAMPLING TIME
281421	DAD-09	1	250	WATER	HCl	12-5-14	11:35
↓-2	DAD-09	1		SLUDGE	HNO ₃		11:35
422-1	DAD-10	1		AIR	H ₂ SO ₄		11:15
↓-2	DAD-10	1		SOIL	ICE		11:15
423-1	DAD-11	1		WATER	NONE		8:44
↓-2	DAD-11	1		SLUDGE	ICE		8:44
424-1	DAD-17	1		AIR	HNO ₃		9:19
↓-2	DAD-17	1		SOIL	H ₂ SO ₄		9:19
425-1	DAD-18	1		WATER	HCl		9:50
↓-2	DAD-18	1		SLUDGE	HNO ₃		9:50

Relinquished by: Jub Company: DH Date: 12-5-14 Time: 12:15
 Received by: [Signature] Company: [Signature] Date: 12-5-14 Time: 12:15
 INST: 2 OBS: 2 COR: 2
 INST: 2 OBS: 2 COR: 2
 INST: 2 OBS: 2 COR: 2
 INST: 2 OBS: 2 COR: 2

LAB USE ONLY
 Info: D / N
 Headspace: Y / N / N / A
12-5-14
 Log-Interview

REMARKS:

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

Trace Analysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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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

BioQuantum Testing
2501 Meyers Trl. Wc. (H)
Carrollton, Texas 75006
Tel (972) 242-7760

Company Name: **DH PETROLIUM & ENVIRONMENTAL**
 Address: (Street, City, Zip) **1221 TOWER TRAIL LN, EL PASO, TEXAS, 79907**
 Contact Person: **VICTOR AYALA**
 Phone #: **915 857-8150**
 Fax #:
 E-mail: **Victor.a@tchpump.com**

Invoice to: **(If different from above) P.O. Box 10, Mesquite, NM 88048**
 Project #: **455520**
 Project Name: **VARIOUS DAIRIES**
 Sampler Signature: **[Signature]**

Project Location (including state): **VARIOUS DAIRIES, Dona Ana 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	DATE
281426-1	DAD-19	1	250 X	X				X					12-5-14	1032
↓ 2	DAD-19	1	250 X	X				X					↓	1032

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 EXK(C35)
<input type="checkbox"/>	PAH 8270 / 625
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/2007
<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, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity
<input type="checkbox"/>	Na, Ca, Mg, K, TDS, EC
<input checked="" type="checkbox"/>	NITRATE EM 3000
<input checked="" type="checkbox"/>	TKM SM 4500 NORG C
<input checked="" type="checkbox"/>	CHLORIDE EM 3000
<input checked="" type="checkbox"/>	TDS SM 2540 C MOD

Turn Around Time if different from standard

Relinquished by: **[Signature]** Company: **DH** Date: **12-5-14** Time: **12:15**

Received by: **[Signature]** Company: **Trace** Date: **12-5-14** Time: **12:15**

Relinquished by: **[Signature]** Company: **Trace** Date: **12-5-14** Time: **16:30**

Received by: **[Signature]** Company: **Trace** Date: **12-5-14** Time: **16:30**

INST OBS COR

INST OBS COR

INST OBS COR

INST OBS COR

LAB USE ONLY

Intact Y/N

Headspace Y/N/L/N/A

Log-in-Review

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

REMARKS:



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)

Joe Gonzalez
Gonzalez Farmes
14310 Stern Drive
P.O. Box 199
Mesquite, NM, 88048

Report Date: January 9, 2015

Work Order: 14111430



DP: 455526
Project Location: 14310 Stern Dr., Mesquite, NM
Project Name: Gonzalez Farmes

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
379656	177-07R	water	2014-11-14	10:39	2014-11-14

Report Corrections (Work Order 14111430)

- 1/9/15: Corrected field code on sample 379656.

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-11-14 and assigned to work order 14111430. Samples for work order 14111430 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	99143	2014-11-14 at 17:54	117271	2014-11-14 at 17:54
NO3 (IC)	E 300.0	99143	2014-11-14 at 17:54	117271	2014-11-14 at 17:54
TDS	SM 2540C	99161	2014-11-17 at 14:15	117289	2014-11-17 at 14:15
TKN	SM 4500-NH3 B,C	99284	2014-11-21 at 10:30	117427	2014-11-21 at 13:40

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 14111430 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: 379656 - 177-07R

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1070	1070	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 379656 - 177-07R

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117271 Date Analyzed: 2014-11-14 Analyzed By: JR
 Prep Batch: 99143 Sample Preparation: 2014-11-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	45.3	45.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 379656 - 177-07R

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117289 Date Analyzed: 2014-11-17 Analyzed By: MC
 Prep Batch: 99161 Sample Preparation: 2014-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3250	3250	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 379656 - 177-07R

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117427 Date Analyzed: 2014-11-21 Analyzed By: CF
 Prep Batch: 99284 Sample Preparation: 2014-11-21 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N	u	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117289
Prep Batch: 99161Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117427
Prep Batch: 99284Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Report Date: January 9, 2015

Work Order: 14111430
Gonzalez Farmes

Page Number: 8 of 18
14310 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 379549

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3320	3260	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117271
Prep Batch: 99143

Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.2	mg/L	1	25.0	<0.00680	97	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.2	mg/L	1	25.0	<0.00680	97	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117271
Prep Batch: 99143

Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.79	mg/L	1	5.00	<0.0251	96	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.78	mg/L	1	5.00	<0.0251	96	90 - 110	0 20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117289
Prep Batch: 99161

Date Analyzed: 2014-11-17
QC Preparation: 2014-11-17

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	1000	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	998	mg/L	1	1000	<2.50	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: 117427
Prep Batch: 99284

Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115	3	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379655

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	2480	mg/L	55.6	1390	931	111	80 - 120

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		1,4,5	2420	mg/L	55.6	1390	931	107	80 - 120	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: 379655

QC Batch: 117271
Prep Batch: 99143Date Analyzed: 2014-11-14
QC Preparation: 2014-11-14Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	298	mg/L	55.6	278	16.3	101	80 - 120

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		1,4,5	286	mg/L	55.6	278	16.3	97	80 - 120	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: 379656

QC Batch: 117427
Prep Batch: 99284Date Analyzed: 2014-11-21
QC Preparation: 2014-11-21Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2014-11-14

Standard (CCV-1)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.03	101	90 - 110	2014-11-14

Standard (CCV-2)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-14

Standard (CCV-2)

QC Batch: 117271

Date Analyzed: 2014-11-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.08	102	90 - 110	2014-11-14

Standard (ICV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-11-21

Standard (CCV-1)

QC Batch: 117427

Date Analyzed: 2014-11-21

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-11-21

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

14111430

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

TraceAnalysis, Inc.

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

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14111430

Company Name: _____ Phone #: 915-859-8150
Cell #: _____
D&H Petroleum & Environmental Services
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):
Gonzalez Dairy, PO Box 199, Mesquite, NM 88048
Project #: 455526
Project Name: Joe Gonzalez 575-233-4801
Gonzalez Dairy Inc.
Sampler Signature: JWA

Project Location (including state):
Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	Turn Around Time
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			
37965-1	177-02	1	250	X				X	X	X	X	11-14-14	9:35	
↓ -2	177-02	1	250	X				X	X	X	X		9:35	
37965-1	177-07	1	250	X				X	X	X	X		10:39	
↓ -2	177-07	1	250	X				X	X	X	X		10:39	
		1		X				X	X	X	X			
		1		X				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	
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Relinquished By: JWA Date: 11-14-14 Time: 12:15
 Relinquished By: [Signature] Date: 11-14-14 Time: 1630
 Received By: [Signature] Date: 11-14-14 Time: 12:15
 Received at Laboratory By: [Signature] Date: 11-14-14 Time: 9:10
 Lab Use Only: Intact Y / N
 Headspace Y / N
 Temp 27.2 / 27.2
 Log-in Review DDH / 11/14/14
 Remarks: L50 4970857
 Dry Weight Basis Required
 TRRP Report Required

CAN, SEN



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: December 2, 2014

Work Order: 14111933



Project Location: 16910 Stern Drive, Mesquite NM
 Project Name: Buena Vista Dairy #2
 Project Number: 455543

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
380050	74-1	Water	2014-11-19	12:46	2014-11-19
380051	74-2	Water	2014-11-19	11:20	2014-11-19
380052	74-3	Water	2014-11-19	11:55	2014-11-19
380055	74-Lagoon	Water	2014-11-19	12:16	2014-11-19

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 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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-11-19 and assigned to work order 14111933. Samples for work order 14111933 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	99272	2014-11-20 at 01:28	117412	2014-11-20 at 01:28
NO3 (IC)	E 300.0	99272	2014-11-20 at 01:28	117412	2014-11-20 at 01:28
TDS	SM 2540C	99247	2014-11-20 at 14:20	117388	2014-11-20 at 14:20
TKN	SM 4500-NH3 B,C	99462	2014-12-02 at 10:00	117647	2014-12-02 at 13:40

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 14111933 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: 380050 - 74-1

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	891	891	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380050 - 74-1

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	23.9	23.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380050 - 74-1

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
 Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2930	2930	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380050 - 74-1

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
 Prep Batch: 99462 Sample Preparation: 2014-12-02 Prepared By: CF

Report Date: December 2, 2014
455543

Work Order: 14111933
Buena Vista Dairy #2

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16910 Stern Drive, Mesquite NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380051 - 74-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	572	572	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380051 - 74-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	28.6	28.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380051 - 74-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
 Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2230	2230	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380051 - 74-2

Report Date: December 2, 2014
455543

Work Order: 14111933
Buena Vista Dairy #2

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16910 Stern Drive, Mesquite NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
Prep Batch: 99462 Sample Preparation: 2014-12-02 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380052 - 74-3

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	1380	1380	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380052 - 74-3

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,6	2.06	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380052 - 74-3

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

continued . . .

sample 380052 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	4390	4390	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380052 - 74-3

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
 Prep Batch: 99462 Sample Preparation: 2014-12-02 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380055 - 74-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	450	450	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380055 - 74-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Report Date: December 2, 2014
455543

Work Order: 14111933
Buena Vista Dairy #2

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,6	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380055 - 74-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
 Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2520	2520	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380055 - 74-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
 Prep Batch: 99462 Sample Preparation: 2014-12-02 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	111	111	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117388
Prep Batch: 99247

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117647
Prep Batch: 99462

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: CF
Prepared By: CF

Report Date: December 2, 2014
455543

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 380050

QC Batch: 117388
Prep Batch: 99247

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2800	2930	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117388
Prep Batch: 99247

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	997	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Dissolved Solids		1,4,6	996	mg/L	1	1000	<2.50	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: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	26.3	mg/L	1	25.0	<0.00680	105	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1,4,6	26.3	mg/L	1	25.0	<0.00680	105	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.21	mg/L	1	5.00	<0.0251	104	90 - 110

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.20	mg/L	1	5.00	<0.0251	104	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117647
Prep Batch: 99462

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 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 Kjeldahl Nitrogen - N		2,3,7,8	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	0	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380067

QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99272 QC Preparation: 2014-11-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1930	mg/L	55.6	1390	441	107	80 - 120

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		1,4,6	1930	mg/L	55.6	1390	441	107	80 - 120	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: 380067

QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99272 QC Preparation: 2014-11-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	289	mg/L	55.6	278	<1.40	104	80 - 120

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		1,4,6	288	mg/L	55.6	278	<1.40	104	80 - 120	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: 380069

QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
Prep Batch: 99462 QC Preparation: 2014-12-02 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	46.2	mg/L	1	50.0	2.1	88	72.1 - 120

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

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455543

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	46.9	mg/L	1	50.0	2.1	90	72.1 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.7	103	90 - 110	2014-11-20

Standard (CCV-1)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.18	104	90 - 110	2014-11-20

Standard (CCV-2)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.9	104	90 - 110	2014-11-20

Standard (CCV-2)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.18	104	90 - 110	2014-11-20

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	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.

F Description

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: 14111933

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 #: 14111933
Fax #: 14111933
E-mail: vayala@dhpump.com

Project Name: 455543
Buena Vista Dairy #2

Project Location (including state):
Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

Sampler Signature: [Signature]

Fermie 575-233-4646

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	TIME
380050-1	74-1	1	250	X				X			X			11-19-14	12:46
1 -2	74-1	1		X				X			X			12:46	
380051-1	74-2	1		X				X			X			11:20	
1 -2	74-2	1		X				X			X			11:20	
380052-1	74-3	1		X				X			X			11:55	
1 -2	74-3	1		X				X			X			11:55	
74-4	74-4	1		X				X			X				
74-4	74-4	1		X				X			X				
74-5	74-5	1		X				X			X				
74-5	74-5	1		X				X			X				
380055-1	74 Lagoon	1		X				X			X			12:16	
1 -2	74 Lagoon	1		X				X			X			12:16	

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

Relinquished By: [Signature] Date: 11-19-14 Time: 13:21

Received By: [Signature] Date: 11-19-14 Time: 13:21

Relinquished By: [Signature] Date: 11-19-14 Time: 16:30

Received at Laboratory By: [Signature] Date: 11-20-14 Time: 8:30 AM

Log-in Review [Signature] 11-19-14

Lab Use Only

Intact N

Headspace N

Temp 20.5 5

Remarks: on file

Carmy In

Dry Weight Basis Required

TRRP Report Required



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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: December 2, 2014

Work Order: 14111934



Project Location: 13600 Stern Dr. Mesquite, NM
 Project Name: Dominguez Dairy #2
 Project Number: 455524

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
380066	42-03	Water	2014-11-19	09:12	2014-11-19
380067	42-10	Water	2014-11-19	10:33	2014-11-19
380069	42-11	Water	2014-11-19	09:53	2014-11-19
380070	42-12	Water	2014-11-19	10:13	2014-11-19
380071	42-Lagoon	Water	2014-11-19	08:37	2014-11-19

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 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2014-11-19 and assigned to work order 14111934. Samples for work order 14111934 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	99272	2014-11-20 at 01:28	117412	2014-11-20 at 01:28
Chloride (IC)	E 300.0	99278	2014-11-20 at 18:07	117420	2014-11-20 at 18:07
NO3 (IC)	E 300.0	99272	2014-11-20 at 01:28	117412	2014-11-20 at 01:28
NO3 (IC)	E 300.0	99278	2014-11-20 at 18:07	117420	2014-11-20 at 18:07
TDS	SM 2540C	99247	2014-11-20 at 14:20	117388	2014-11-20 at 14:20
TKN	SM 4500-NH3 B,C	99462	2014-12-02 at 10:00	117647	2014-12-02 at 13:40
TKN	SM 4500-NH3 B,C	99465	2014-12-02 at 10:00	117649	2014-12-02 at 13:40

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 14111934 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: 380066 - 42-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1040	1040	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380066 - 42-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	73.2	73.2	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 380066 - 42-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
 Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3560	3560	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380066 - 42-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
 Prep Batch: 99462 Sample Preparation: 2014-12-02 Prepared By: CF

Report Date: December 2, 2014
455524

Work Order: 14111934
Dominguez Dairy #2

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	16.1	16.1	<1.80	mg/L	1	1.80	10	1.8

Sample: 380067 - 42-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	441	441	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 380067 - 42-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99272 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	1.08	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380067 - 42-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
 Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1340	1340	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380067 - 42-10

Report Date: December 2, 2014
455524

Work Order: 14111934
Dominguez Dairy #2

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Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
Prep Batch: 99462 Sample Preparation: 2014-12-02 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	11.9	11.9	<1.80	mg/L	1	1.80	10	1.8

Sample: 380069 - 42-11

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	316	316	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 380069 - 42-11

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	1.83	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380069 - 42-11

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

continued . . .

sample 380069 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1170	1170	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380069 - 42-11

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
 Prep Batch: 99462 Sample Preparation: 2014-12-02 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	2.10	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380070 - 42-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	333	333	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 380070 - 42-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 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	1,4,5	2.10	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380070 - 42-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
 Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1220	1220	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380070 - 42-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 117649 Date Analyzed: 2014-12-02 Analyzed By: CF
 Prep Batch: 99465 Sample Preparation: 2014-12-02 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 380071 - 42-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
 Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	1130	1130	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 380071 - 42-Lagoon

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Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 117420 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99278 Sample Preparation: 2014-11-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	2.72	2.72	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 380071 - 42-Lagoon

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 117388 Date Analyzed: 2014-11-20 Analyzed By: MC
Prep Batch: 99247 Sample Preparation: 2014-11-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	5510	5510	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 380071 - 42-Lagoon

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 117649 Date Analyzed: 2014-12-02 Analyzed By: CF
Prep Batch: 99465 Sample Preparation: 2014-12-02 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	260	260	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 117388
Prep Batch: 99247

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117420
Prep Batch: 99278

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 117420
Prep Batch: 99278

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 117647
Prep Batch: 99462

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 117649
Prep Batch: 99465

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 380050

QC Batch: 117388
Prep Batch: 99247

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2800	2930	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117388
Prep Batch: 99247

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	997	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	996	mg/L	1	1000	<2.50	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: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	26.3	mg/L	1	25.0	<0.00680	105	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	26.3	mg/L	1	25.0	<0.00680	105	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117412
Prep Batch: 99272

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.21	mg/L	1	5.00	<0.0251	104	90 - 110

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

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Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	5.20	mg/L	1	5.00	<0.0251	104	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117420
Prep Batch: 99278

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00680	101	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00680	101	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117420
Prep Batch: 99278

Date Analyzed: 2014-11-20
QC Preparation: 2014-11-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	5.00	mg/L	1	5.00	<0.0251	100	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	5.01	mg/L	1	5.00	<0.0251	100	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117647
Prep Batch: 99462

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: CF
Prepared By: CF

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	42.7	mg/L	1	50.0	<1.80	85	80.7 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 117649
Prep Batch: 99465

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115	2	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380067

QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99272 QC Preparation: 2014-11-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	1930	mg/L	55.6	1390	441	107	80 - 120

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		1,4,5	1930	mg/L	55.6	1390	441	107	80 - 120	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: 380067

QC Batch: 117412 Date Analyzed: 2014-11-20 Analyzed By: JR
Prep Batch: 99272 QC Preparation: 2014-11-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	289	mg/L	55.6	278	<1.40	104	80 - 120

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		1,4,5	288	mg/L	55.6	278	<1.40	104	80 - 120	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: 380069

QC Batch: 117647 Date Analyzed: 2014-12-02 Analyzed By: CF
Prep Batch: 99462 QC Preparation: 2014-12-02 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	2.1	88	72.1 - 120

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

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.9	mg/L	1	50.0	2.1	90	72.1 - 120	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: 380131

QC Batch: 117649
Prep Batch: 99465

Date Analyzed: 2014-12-02
QC Preparation: 2014-12-02

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	49.0	mg/L	1	50.0	7.7	83	72.1 - 120

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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	49.7	mg/L	1	50.0	7.7	84	72.1 - 120	1	20

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

Calibration Standards

Standard (CCV-2)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.9	104	90 - 110	2014-11-20

Standard (CCV-2)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.18	104	90 - 110	2014-11-20

Standard (CCV-3)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.7	103	90 - 110	2014-11-20

Standard (CCV-3)

QC Batch: 117412

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.18	104	90 - 110	2014-11-20

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2014-11-20

Standard (CCV-3)

QC Batch: 117420

Date Analyzed: 2014-11-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.10	102	90 - 110	2014-11-20

Standard (ICV-1)

QC Batch: 117647

Date Analyzed: 2014-12-02

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-02

Standard (CCV-1)

QC Batch: 117647

Date Analyzed: 2014-12-02

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-02

Standard (ICV-1)

QC Batch: 117649

Date Analyzed: 2014-12-02

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-02

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Standard (CCV-1)

QC Batch: 117649

Date Analyzed: 2014-12-02

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-12-02

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

LAB Order ID # **1411934**
 Company Name: Phone #: 915-859-8150 Cell #:
 D&H Petroleum & Environmental Services
 Address: (Street, City, Zip) Fax #:
 1221 Tower Trail Ln., El Paso, Texas 79907 E-mail: vayala@dhpump.com
 Contact Person:
 Victor Ayala

Invoice to (if different from above):
 Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048
 Project #: **455524**
 Project Name: **Dominguez Dairy #2**
 Dominguez Dairy #2
 Sampler Signature: *JAS*

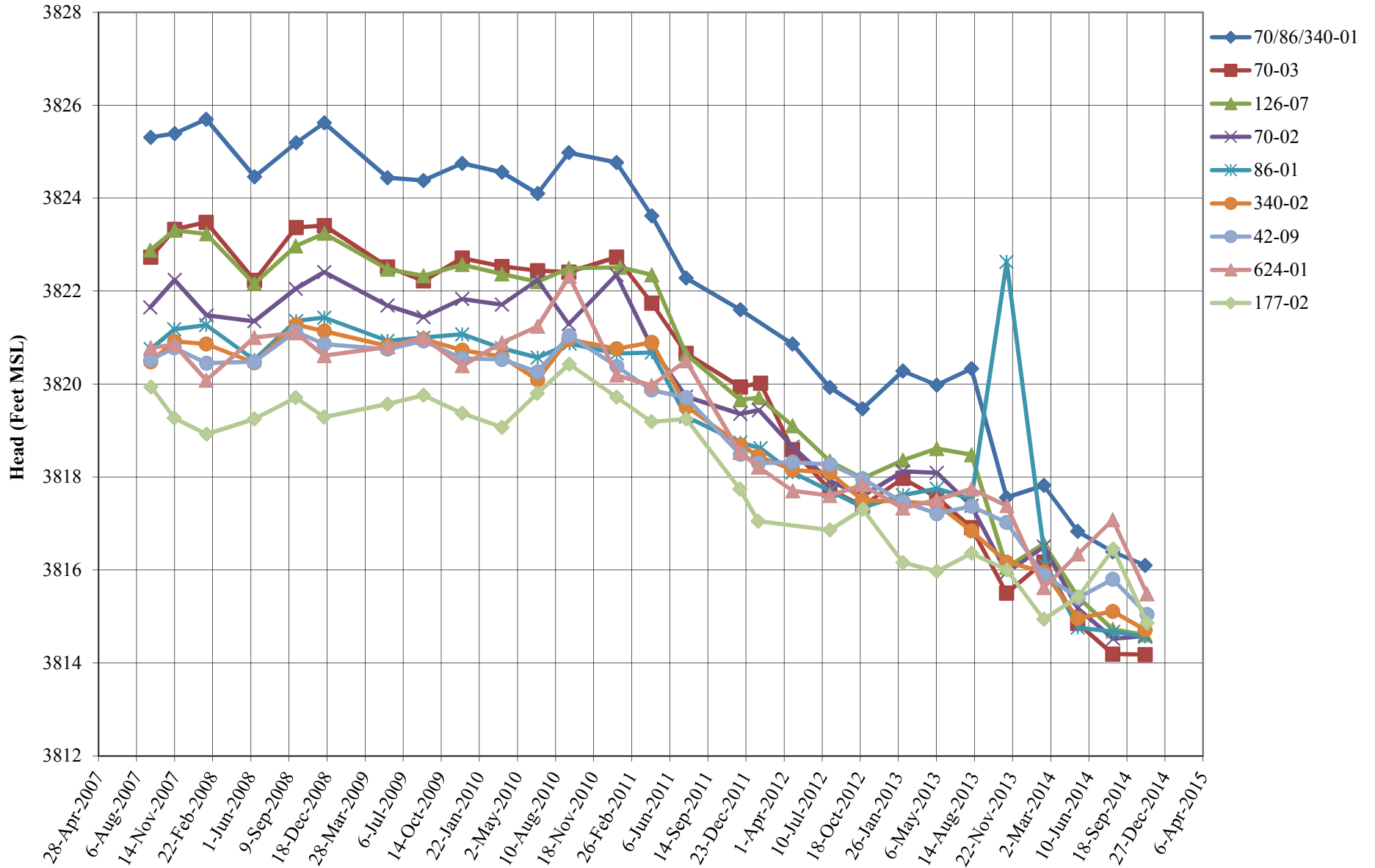
Project Location (including state):
 Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

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
380066	42-03	1	250	X				X		X			11-19-14	9:12
L-2	42-03	1		X				X		X				9:12
380067	42-10	1		X				X		X				10:33
L-2	42-10	1		X				X		X				10:33
380068	42-11	1		X				X		X				9:53
L-2	42-11	1		X				X		X				9:53
380070	42-12	1		X				X		X				10:13
L-2	42-12	1		X				X		X				10:13
380071	42-Lagoon	1		X				X		X				8:37
L-2	42-Lagoon	1		X				X		X				8:37

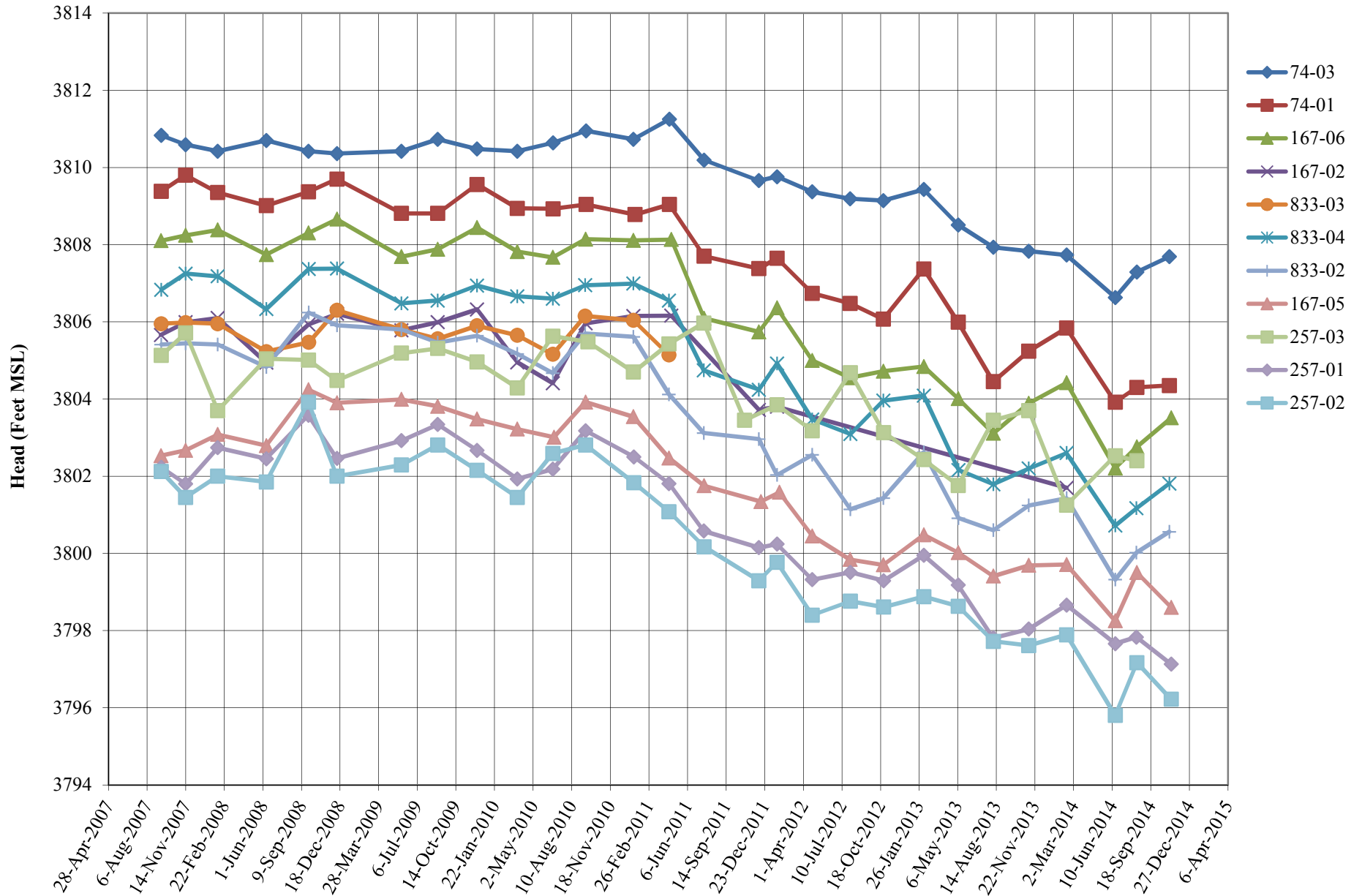
Relinquished By: *JAS* Date: 11-19-14 Time: 13:21
 Received By: *MCC* Date: 11-19-14 Time: 13:21
 Relinquished By: *MCC* Date: 11-19-14 Time: 16:30
 Received By: *BC LA* Date: 11-19-14 Time: 8:30 AM
 Lab Use Only: Intact Y N
 Headspace Y N
 Temp Y N
 Log-in Review Y N
 Remarks: on Ice *RS 49170860*
CARMEN
 Dry Weight Basis Required
 TRRP Report Required
 11-18-14

**APPENDIX C
HYDROGRAPHS**

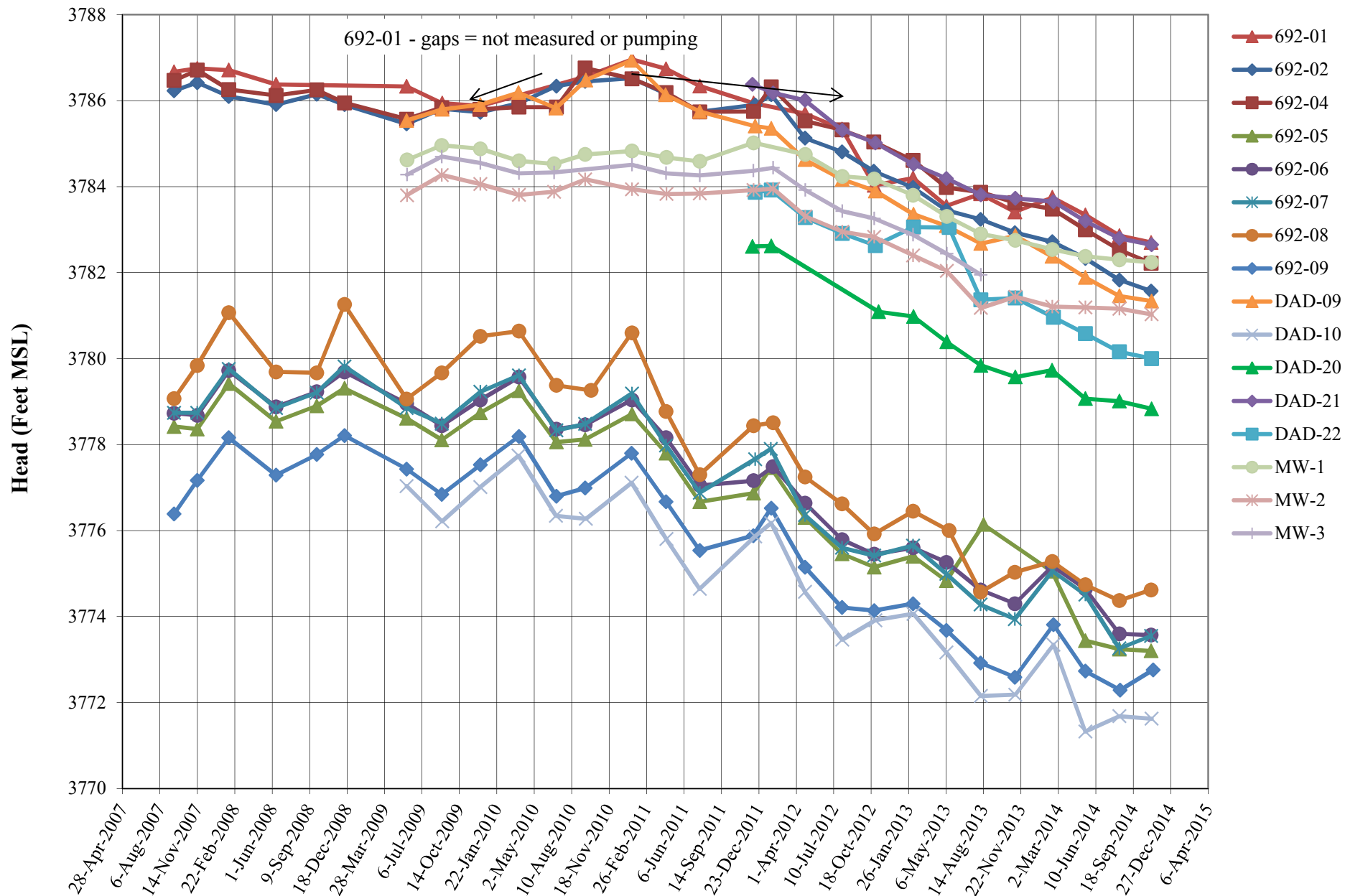
HYDROGRAPHS FOR DP MONITORING WELLS NORTHERN PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO



HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

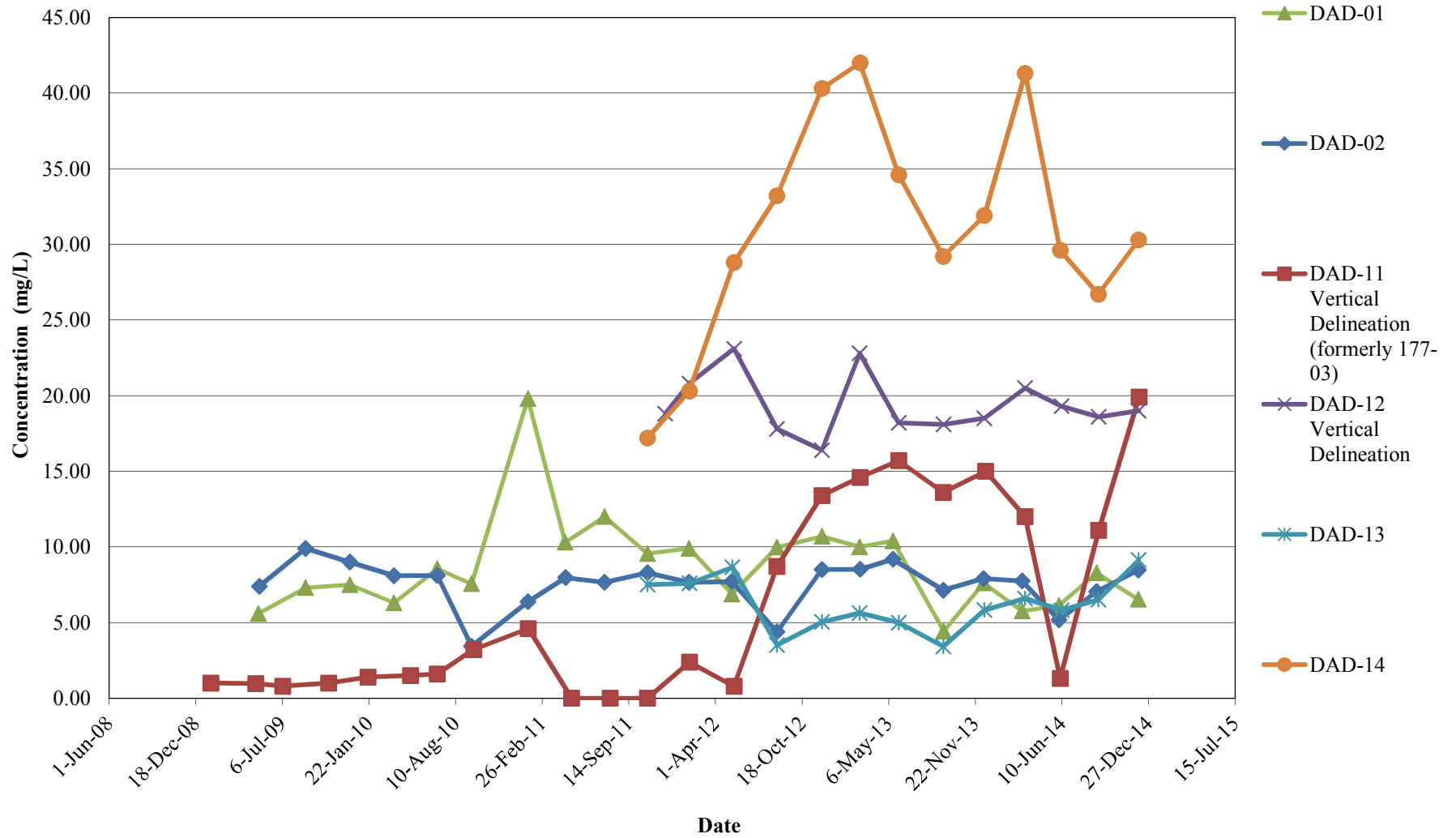


HYDROGRAPHS FOR DP MONITORING WELLS SOUTHERN PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

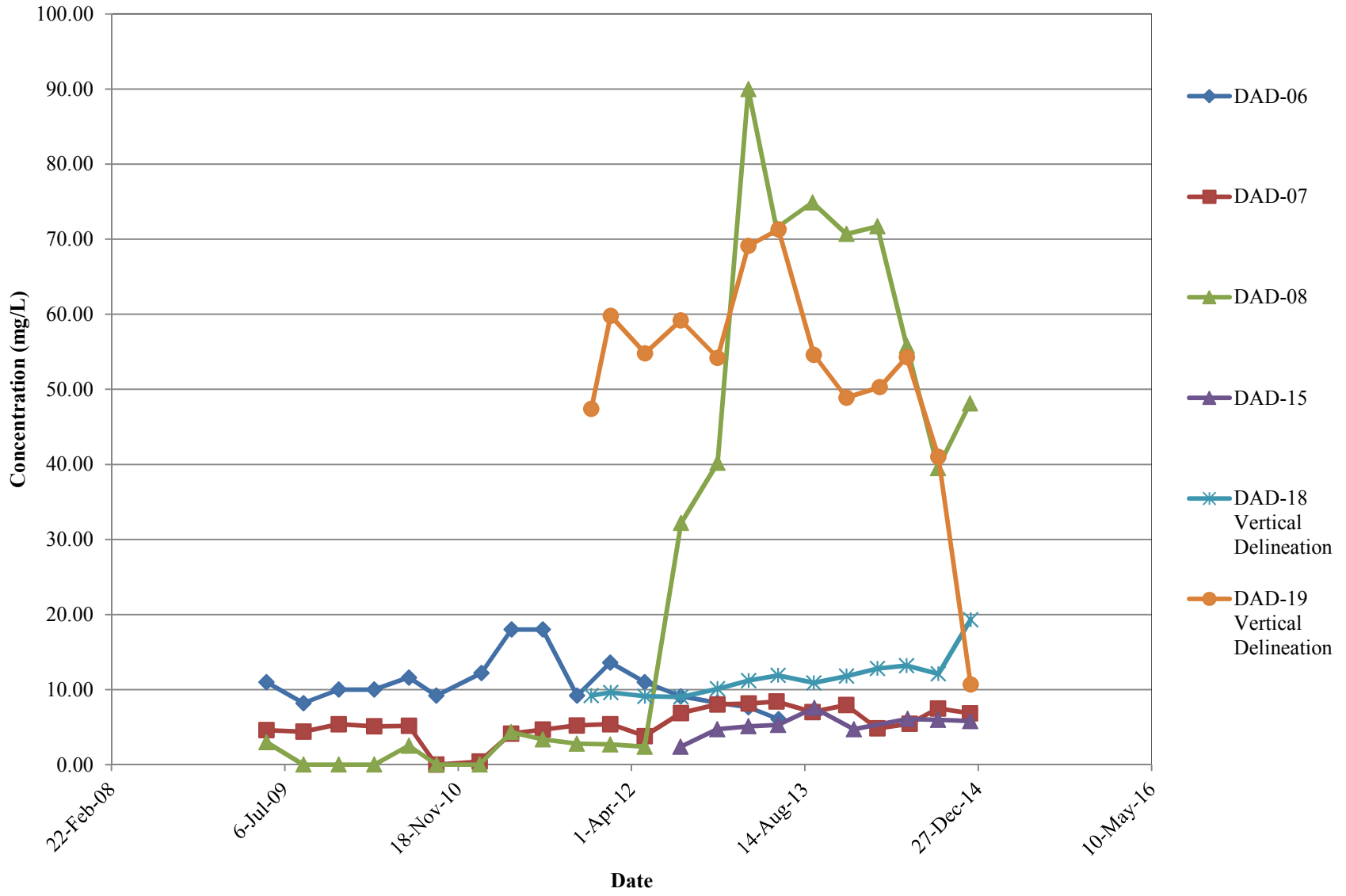


**APPENDIX D
CONCENTRATION TRENDS**

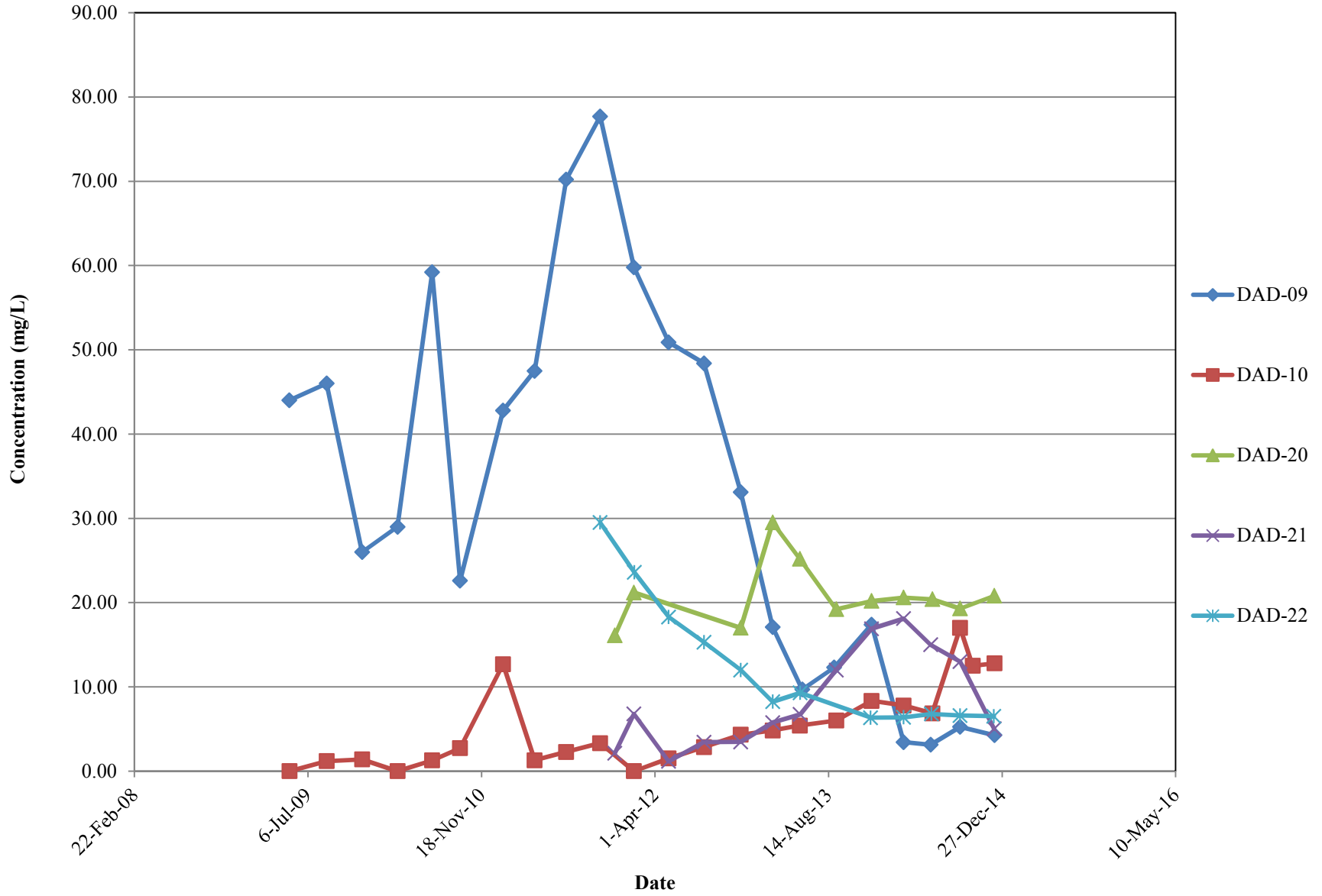
**NITRATE CONCENTRATION TRENDS
IN SELECT NORTHERN DAD MONITORING WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



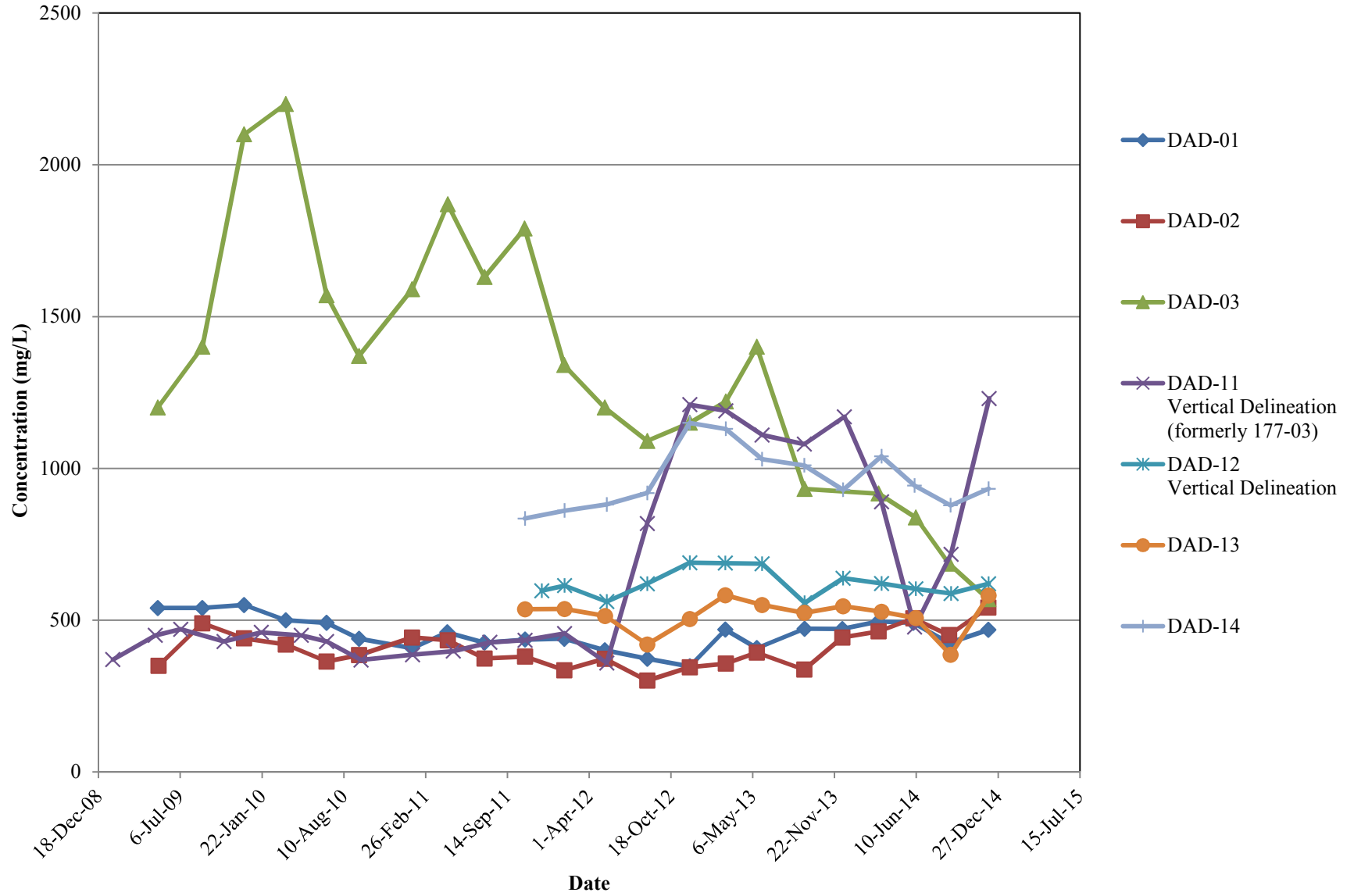
**NITRATE CONCENTRATION TRENDS
IN SELECT CENTRAL DAD WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



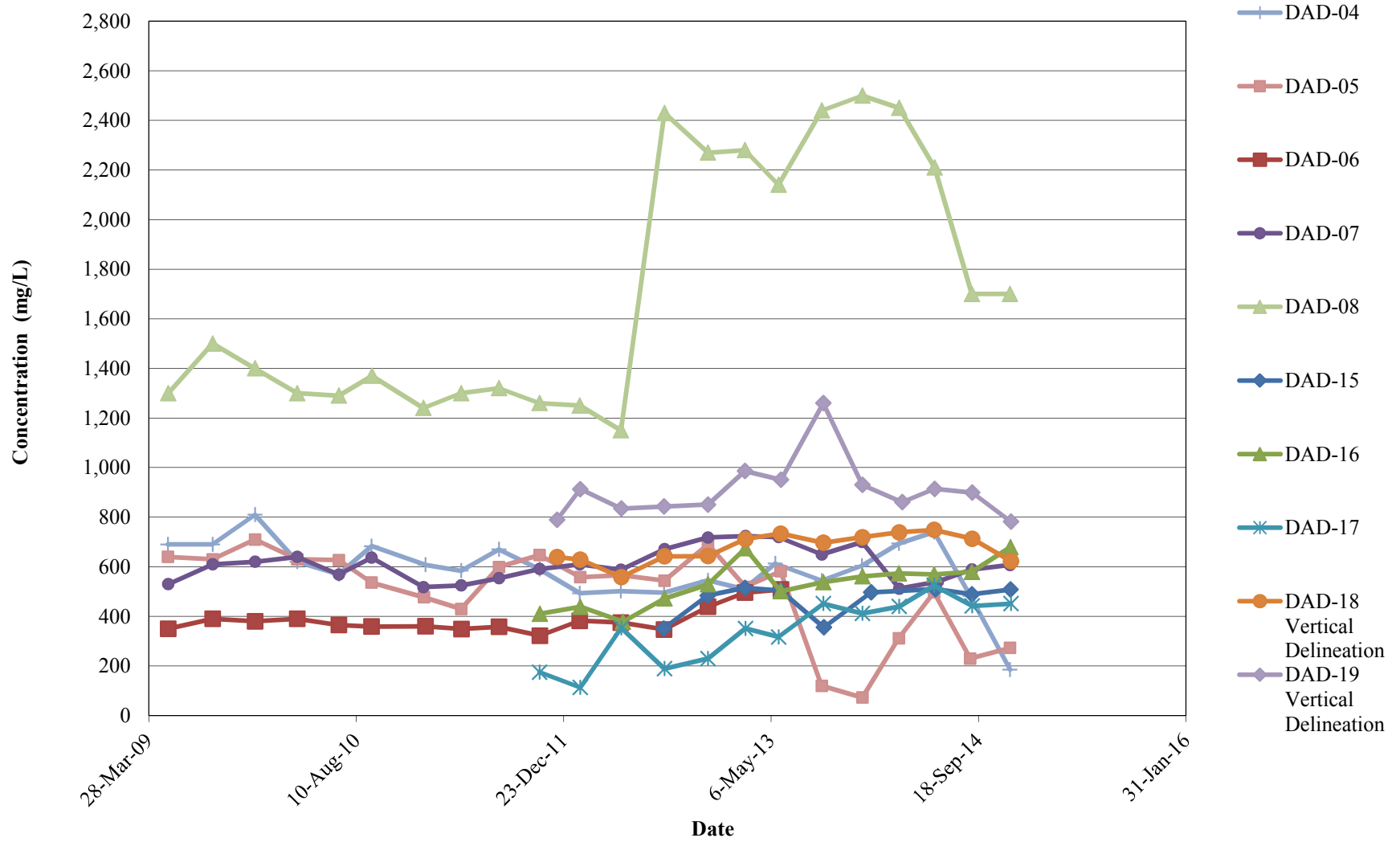
**NITRATE CONCENTRATION TRENDS
IN SELECT SOUTHERN DAD WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**CHLORIDE CONCENTRATION TRENDS
NORTHERN DAD WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**CHLORIDE CONCENTRATION TRENDS
CENTRAL DAD MONITORING WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**CHLORIDE CONCENTRATION TRENDS
SOUTHERN DAD WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

